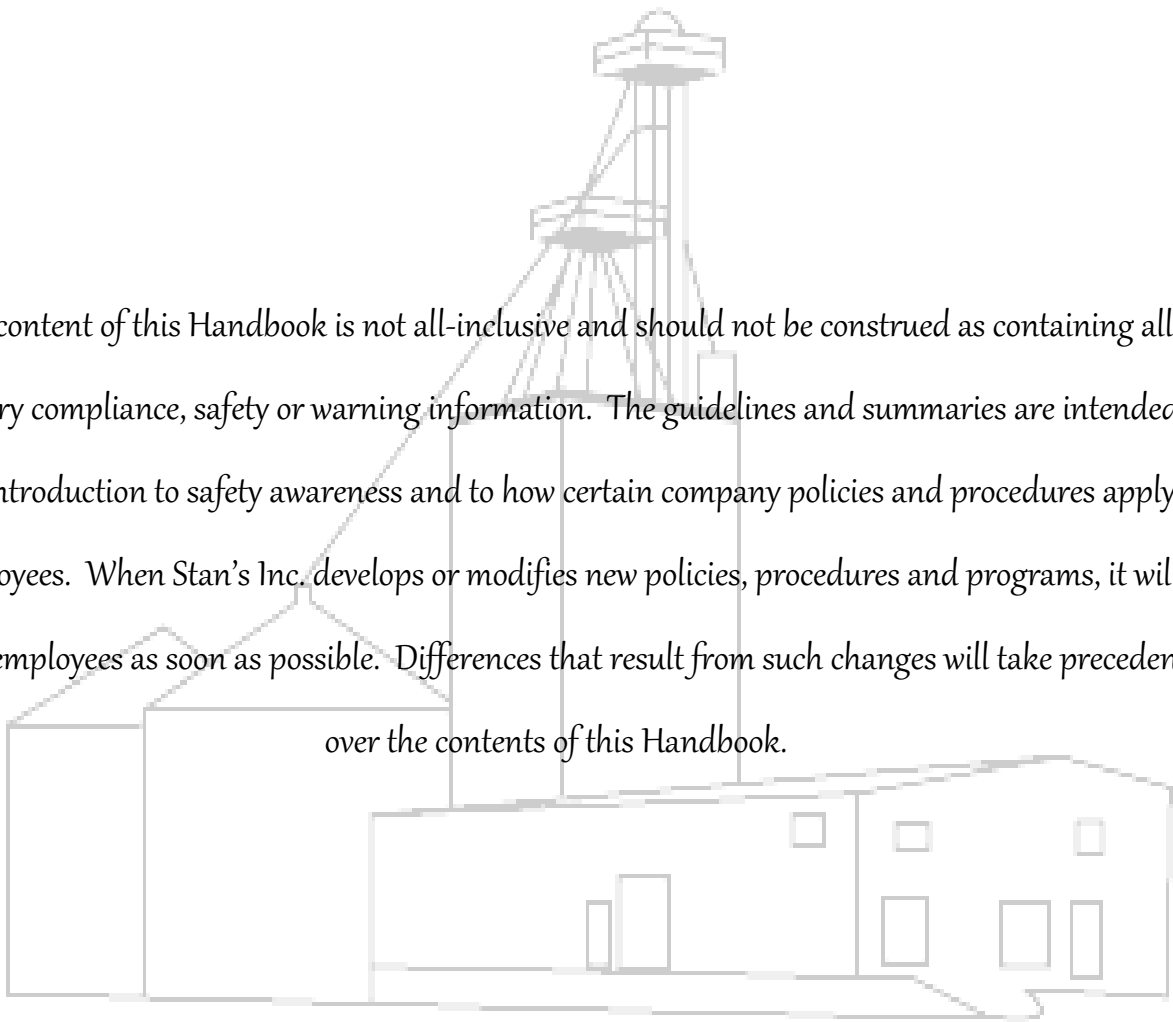


STAN'S

Alpena, SD

The content of this Handbook is not all-inclusive and should not be construed as containing all necessary compliance, safety or warning information. The guidelines and summaries are intended to be an introduction to safety awareness and to how certain company policies and procedures apply to employees. When Stan's Inc. develops or modifies new policies, procedures and programs, it will notify employees as soon as possible. Differences that result from such changes will take precedence over the contents of this Handbook.



STAN'S
Alpena, SD



***OPERATIONS
SAFETY
PROGRAM***

Reviewed: 05/25/18

INTRODUCTION

It is the intent of this Operations Safety Program to provide the tools and methods to maintain safe working practices and a safe workplace.

Tammy Bierman and Lori Haak will coordinate all of the activities of the Safety Program.

This Operations Safety Program is an attempt to comply with the regulations of the Occupational Safety and Health Act of 1970 as described in the Code of Federal Regulations

TABLE OF CONTENTS

	<u>PAGE</u>
Company Safety Policy.....	1
Safety Program Responsibility.....	2
Training.....	3
Workplace Safety Procedures.....	4
Respiratory Protection.....	18
Outside Contractors.....	21
Accident/Incident Investigation.....	23
Safety Inspections.....	24

COMPANY SAFETY POLICY

Stan's is committed to protecting its employees from accidents and injury. Stan's Safety Programs are designed to assure that:

1. Safety and Health are a high priority.
2. The workplace is free from recognized hazards.
3. Each employee is trained to recognize hazards and follow the proper safety procedures.
4. Each employee is responsible for the safety performance of his/her activity.
5. Each employee is responsible for support of our safety and training program.
6. Each employee is responsible for the support of a safe workplace.

I have a personal interest in our Safety Program and will personally monitor the activities.

Only with the proper attitude of management and all employees will this program realize the desired results. Good health and lives are at stake. A positive attitude toward safety will save lives, prevent injuries, increase efficiency, and reduce costs.

(Operations Manager)

RESPONSIBILITY

Management Responsibility

1. Show full support of the Safety Program.
2. Make safety a part of operational management.
3. Attend and participate in safety meetings.
4. Be familiar with accident experience and safety performance.
5. Take required action to correct and solve safety problems.

Supervisors Responsibility

1. Promote our safety program.
2. See that regularly scheduled safety inspections of the facility and grounds are carried out.
3. Hold departmental employee safety meetings.
4. Thoroughly train new or transferred employees in departmental and job safety hazards and proper procedures.
5. Discuss job safety frequently with employees.
6. Enforce job safety procedures.
7. Conduct accident investigations.

Safety Director/Coordinator Responsibility

1. See that monthly safety inspections are carried out in all departments; submit recommendations for corrective action to management.
2. Organize the monthly safety meetings and see that they are held.
3. Maintain safety literature and materials.
4. See that safety and training records are maintained.
5. See that material safety data sheets are kept up to date and maintained in a place accessible to the employees.

Employee Responsibility

1. Follow all safety procedures.
2. Use the proper protective equipment.
3. Report hazardous conditions to the supervisor.
4. Report hazardous activities to the supervisor.
5. Maintain a positive attitude toward your safety and the safety of others.

TRAINING

Company employees are to be provided with a training program that is on-going. Training will include the safe work procedures and hazards as outlined in this program and also in an Emergency Action Plan.

Safety training of employees will be provided at the following times:

1. When this program is initiated.
2. When a new employee is hired.
3. When an employee's job duties change.
4. When this program is changed.
5. Monthly safety meetings.

The training program will cover the following areas:

1. Identification of workplace hazards.
2. Fire and explosion prevention.
3. Work safety procedures.
4. Hot work procedures.
5. Lock out/tag out procedures.
6. Bin entry and cleaning procedures.
7. Housekeeping procedures.
8. Preventive maintenance.
9. Emergency action procedures.
10. Hazard communications.

SAFETY TRAINING MEETINGS

At least once each month, a safety-training meeting will be held. These meetings will be approximately 15 minutes in length and will cover one or more safety topics. Employees are encouraged to participate in the safety discussions.

A safety meeting record should be filled out for each meeting and kept on file in the office.

The "Safety Training Register" or a sign-in sheet should be signed by all in attendance and kept on file in the office.

OPERATIONS SAFETY PROGRAM

EMPLOYEE SAFETY TRAINING RECORD

EMPLOYEE: _____ DATE HIRED: _____

	<u>DATE COMPLETED</u>
1. Company Safety Policy	
2. Hazard Communication.	
3. Workplace Safety Procedures.	
4. Hot Work Procedure.	
5. Lock Out/Tag Out of Equipment.	
6. Workplace Hazards.	
7. Housekeeping Procedure.	
8. Equipment Maintenance.	
9. Emergency Action Plan.	
10. Fire Protection Equipment.	
11. Clothing and Personal Protective Equipment.	
12. Bin Entry/Confined Space Permit.	

WORKPLACE SAFETY PROCEDURES

These workplace safety procedures are the rules to be followed to reduce accidents and injury to employees and visitors. Experienced and new employees alike must follow these rules and procedures in performing their jobs. A frequent review of these safety procedures by the employees will work toward promoting a safe and productive workplace.

GENERAL SAFETY

1. Report all injuries at once.
2. Report unsafe conditions.
3. Always wear personal protective equipment when and where required.
 - Head protection
 - Eye protection
 - Ear protection
 - Hand protection
 - Foot protection
 - Breathing protection
4. Dress properly. Wear appropriate work clothes, gloves, and shoes or boots. Loose clothing and jewelry must be removed.
5. Never operate machinery unless authorized. All guards, covers, and safety devices must be in place and operating properly.
6. Always lock out and tag the power source before working on or cleaning machinery, so that unexpected startup cannot occur.
7. Never use defective tools. Report all defective tools or equipment.
8. Keep work areas and aisles clean and free of trash.
9. Horseplay is prohibited.
10. Walk, don't run.

OPERATIONS SAFETY PROGRAM

WORKPLACE SAFETY PROCEDURES (continued)

GENERAL SAFETY (continued)

11. Do not jump down off equipment, docks, platforms, storage racks or vehicles. Always climb down using the three point dismount.
12. The use of, or being under the influence of, intoxicating beverages or illegal drugs is prohibited.
13. Always use proper lifting procedure
 - Size up the object
 - Get help if necessary
 - Position feet on each side of object
 - Keep object close to body while lifting with legs
 - Do not twist back while lifting or carrying
 - Be sure you can see where you are walking
14. Be alert on the job.

WORKPLACE SAFETY PROCEDURES (continued)

LADDER SAFETY

1. Do not use boxes, chairs, or other makeshift devices for climbing.
2. All ladders should be equipped with safety feet.
3. Any broken or deteriorated ladders are to be taken out of service.
4. Ladder feet should be set on a level surface.
5. Extension ladders should extend at least 3 feet above the roofline when used to gain access to a roof.
6. Do not stand above the third step from the top of a stepladder. The top two steps should not be used.
7. Always face the ladder rungs when climbing or descending.

WORKPLACE SAFETY PROCEDURES (continued)

ELEVATOR/MILL SAFETY

1. All power drive guards and conveyor covers must be in place before operating equipment.
2. When cleaning or repairing machinery, the electrical power must be "locked out" and "tagged."
3. Inspection doors on elevating legs must be kept closed while operating under normal conditions. The only exception to this would be while checking belt alignment of the leg.
4. Never try to "jog" a choked elevating leg.
5. Frequently check the temperature of bearings during the operation of elevating legs and conveyors.
6. Before entering a tank or bin, obtain a permit.
7. Before welding in the elevator or mill, the area must be inspected and a hot work permit obtained.
8. Clean up spills.
9. Keep floor dry.
10. NO SMOKING INSIDE MILL.

WORKPLACE SAFETY PROCEDURES (continued)

FORK LIFT/BUCKET END LOADER SAFETY

1. **ONLY** OSHA trained and authorized employees are to operate industrial trucks.
2. Inspect truck daily before operation.
3. Be sure horn, lights, and brakes are operating properly.
4. Refueling should be done in a safe outside area with engine shut off.
5. Industrial trucks are to be operated in a safe manner and at a safe speed that will permit it to be brought to a safe stop.
6. Keep arms and legs within the limits of the truck.
7. Do not allow anyone to stand or pass under the elevated part of the truck.
8. Travel with load at a low level and, where possible, tilted back.
9. Elevate load only during stacking or unstacking; not while in motion.
10. Do not overload.
11. When leaving truck unattended, lower load and shut off power. Set brake.
12. No riders are permitted on truck.
13. Be sure truck/trailer wheels are properly chocked to prevent movement before entering with industrial truck.
14. Be sure bridge plate is properly secured in truck/trailer.
15. Be sure fire extinguisher aisles, exit doors and working aisles are kept clear and orderly.

WORKPLACE SAFETY PROCEDURES (continued)

HAND TOOL SAFETY

1. Always pull on a wrench handle and place yourself in a position that keeps you in balance.
2. Pliers should not be used on nuts and bolts.
3. Don't use the side of the hammer for striking.
4. Size the hammer to the job, don't use a heavy hammer for lightweight jobs and vice-versa.
5. Don't use a hammer with a damaged or loose handle, replace it.
6. Replace hammerheads that are cracked, split, or mushroomed.
7. Never use a cold chisel on stone or concrete.
8. Always keep chisels sharp; dull tips require extra force.
9. When using a knife, always stroke away from the body.
10. Use a rack or vise to hold items to be cut or that requires a firm grip.
12. Don't use a screwdriver as a pry bar.
11. Always size the screwdriver tip to the slot of the screw.
13. Inspect all tools before they are used for defects such as cracks, splits, and bends.

WORKPLACE SAFETY PROCEDURES (continued)

AUTO/TRUCK SERVICE AND REPAIR SAFETY

1. Safety glasses must be worn at all times in the shop.
2. Know the location and proper use of the fire extinguishers.
3. Never use a compressed air hose to clean off clothing or brake shoes or drums.
4. Do not use a portable extension light when working on a carburetor, gas line, or gas tank. No welding or cutting at this time.
5. No smoking in shop.
6. Clean up grease and oil spills at once.
7. Use the proper tool for the job.
8. Maintain tools in good condition.
9. When job is completed, return tools to proper place.
10. Place all dirty shop towels in designated rag bag.
11. Do not leave used motor oil setting in an open pan or bucket.
12. Store flammable liquids in an enclosed metal cabinet.
13. Use care while raising a vehicle on a lift. Be sure the vehicle is properly positioned. Do not exceed the capacity.
14. Be sure lift control is in lock position while in raised position.
15. Use care when closing overhead doors to be sure nothing is located under the open door.
16. Drive **SLOWLY** in and out of shop. ONLY Shop Personnel are permitted to drive in and out of shop.

OUTSIDE CONTRACTORS

Employees should be aware of the conditions created by contractors and their personnel, which not only endanger contractor employees, but also create hazardous conditions for company employees.

Safety related problems with contractors generally arise when they have had little or no experience with hazardous operations, bring in workers who are unfamiliar with various hazards, do not coordinate their work with other contractors on the job, and fail to have adequate supervision. A system to control and eliminate these situations is the key to protecting company employees and facilities.

To effectively protect all employees from the actions and hazards, which can be created by contractors' personnel, steps similar to those outlined below are recommended. All employees are to help monitor the activities of contractors' personnel.

1. Smoking is prohibited except in designated areas.
2. Sanitary conditions must be maintained in the facility at all times.
3. Eating is permitted only in areas designated by the facility Manager.
4. Ear protection must be used in all posted "Ear Protection Required" areas in the facility.
5. Parking is prohibited except in designated areas.
6. Cameras, firearms, weapons of any kind, or intoxicating liquors are not permitted on the premises.
7. Posted load limits on personnel elevators are not to be exceeded.
8. All contractor personnel are to be registered with the facility's office.
9. When using portable grinders, proper safeguards must be taken to protect personnel and equipment from flying projectiles.
10. When working overhead, proper safeguards must be set up so that material is not dropped on persons working in the area. Signs are to be placed at floor level calling attention to overhead work.
11. Daily clean up and removal of debris must be carried out.

OUTSIDE CONTRACTORS (continued)

12. Contractors' personnel should not be permitted access to non-work areas including maintenance shops, locker rooms, etc., without management approval.
13. At the end of each workday, contractor personnel should secure all tools, mobile vehicles, ladders, and other equipment.
14. Accidents or injuries must be reported to management at the time that they occur.
15. At the end of each workday, all electrical equipment should be unplugged and stored in its proper place, as well as all extension cords picked up and stored in their proper place.
16. When using a burning torch or welder, proper safeguards, including having a fire extinguisher available, must be taken. Flammable material must be protected from sparks. Fireproof screens must be used to protect others in the area. Facility managers **must** be notified **before** using a welder or torch. Managers should check area and issue a permit for such work.
17. Should cutting and welding be needed during a job, all equipment should be secured during operations and removed from the facility each night.
18. All flammable materials used by an outside contractor or subcontractor are not to be stored inside the buildings. Only amounts to be used on a specific day are to be brought inside. Any unused materials as well as any stock will be stored outside of the buildings.
19. A complete inspection should be made of work areas prior to the start and end of each workday. Contact should be made with the facility Manager before starting work and again at the end of the day when all contractor employees have left the facility.
20. Any facility equipment that must be operated for testing or inspection by contractor employees of existing equipment should be operated by facility employees only.

CONTRACTOR SAFETY RULES AGREEMENT

Facility : _____

Date: _____

1. Contractor personnel must follow all plant safety regulations and procedures. Review these procedures with facility representative before beginning work.
2. Review with your employees all facility safety regulations and procedures, including emergency evacuation. Emphasize the importance of compliance.
3. Contractor must follow facility check in/sign in procedure.
4. Absolutely NO SMOKING is permitted in or around this facility except in posted, designated areas.
5. Contractor personnel are not permitted in any part of the facility beyond their designated work areas without proper authorization.
6. Coordinate your schedule with facility representative.
7. Any change in construction method or schedule requires prior approval of facility manager.
8. Contractor personnel must not use endless belt manlifts without special training and authorization by facility representative.
9. Welding, cutting, or other hot work is not permitted in this facility except under very unusual circumstances. The contractor must obtain a Hot Work Permit signed by facility representative. Use of grinding tools requires a Hot Work Permit.
10. All electrical equipment and tools used inside the facility must be appropriate for the location.
11. You must have approval to store and/or use hazardous materials, including solvents and other flammable materials. You must also provide facility representative with Material Safety Data Sheets for any such hazardous materials.
12. Debris must be cleaned up and removed daily.
13. All guards and covers must be replaced immediately upon completion of work.
14. Store in a safe manner or location all tools, equipment, vehicles, ladders, and other equipment at the end of each workday. The contractor should inspect the work area to be sure it remains in safe condition.

I have been informed of the above safety information and it has been discussed with me.

Signature: _____
(Contractor)

Signature: _____
(Facility Manager)



ACCIDENT / INCIDENT INVESTIGATION

In order to control accidents/incidents by our employees, it is important that an accident/incident investigation be conducted on each accident/incident. This will allow for the determination of cause for the accident/incident and corrective action taken to prevent a recurrence.

The manager will fill out an accident/incident investigation report within 24 hours after management has been notified. The report will be filled out during a personal interview with the person involved in the accident/incident. The accident/incident reports are to be kept on file for future reference and study. The cause of the accident/incident and the corrective action taken should be discussed at employee safety meetings. The accident/incident investigation report form is included in this section. The form is not a report to the insurance carrier. It is a guide to more thorough investigation and study of the cause of the accident/incident.

Please use the following procedure in filling out the accident/incident investigation form.

1. Discuss the accident/incident with the involved employee and with any other persons who witnessed the accident/incident. FIND FACTS, NOT FAULTS.
2. Inspect the equipment or materials involved.
4. Study the procedure for performing the job. Can it be made safer?
5. Determine what circumstances led to the accident/incident. What was the person involved doing?
6. Determine if any unsafe conditions existed.
7. Determine if the involved person was engaged in an unsafe act.
8. Indicate what action should be taken to prevent a repeat of the accident/incident. Assume that all accidents/incidents are preventable.
9. Assess points - Any warning, violation or accident, points will be assessed as follows:
 - Cost of \$1,000 or less; 1 point
 - Cost of \$1,001 - \$5,000; 2 points
 - Cost of > \$5,001; 3 points

- At management discretion, points may be assessed for non physical damage accidents or incidents.
 - Points assessed will be dependent upon the severity of the incident.
 - Examples of non physical damage incidents could be performance issues, warnings or moving violations associated with driving or log books.
 - Implemented 5/1/18 (retroactive 1/1/18) – employees may receive one “free” warning for a warning on the road or internally at Stan’s.
- Maximum # of points an employee can have in a calendar year is 6.
 - If 3 points are reached, the employee will be put on company probation.
 - *If an employee is placed on probation, we will work together as a team to improve or alleviate the issues that resulted in probation.*
 - *As a driver, probation will result in loss of rider privileges until the points are reset, or longer, if deemed necessary.*
 - When an employee reaches 6 points, the employee will have an intervention with management.
- Points will be reset to 0 on January 1st of each year.

10. Please return the completed form to Stan’s HR department.



ACCIDENT / INCIDENT INVESTIGATION

EMPLOYEE: _____ DATE OF ACCIDENT/INCIDENT: _____

JOB DUTY: _____

Check all that apply: Accident Incident DOT Recordable

Location of Accident/Incident: _____

Description of Accident/Incident: _____

Employee's Comments: _____

Recommended Corrective Action: _____

Cost Associated With Accident/Incident \$ _____

Points:

Previous to this accident/incident: _____ Assessed this accident/incident: _____ Total to date: _____

Incentive Eligibility: *(Check all that apply)*

Warning only Loss of Monthly Bonus Loss of Annual Bonus

Investigator Signature

Employee Signature

Date

SAFETY INSPECTIONS

In order to maintain awareness of overall safety conditions in a facility, quarterly safety inspections are to be conducted. A member of management will conduct the inspections or an employee appointed by management. Managers or appointed employees will audit departments other than their own. Inspections should be done by different employees on subsequent quarters and not be done by the same person quarter after quarter. The safety inspection form included in this section can be used. Inspections should be scheduled before quarterly safety meetings so that the results of inspections can be discussed at the meetings. Corrective action is to be implemented on all deficiencies noted on the Safety Inspection Report.

SAFETY INSPECTION

INSPECTOR: _____
LOCATION: _____

DATE: _____

		<u>YES</u>	<u>NO</u>
1.	<u>PARKING LOT</u>		
	A. Clean?	<input type="checkbox"/>	<input type="checkbox"/>
	B. Free of potholes?	<input type="checkbox"/>	<input type="checkbox"/>
	C. Properly lighted?	<input type="checkbox"/>	<input type="checkbox"/>
2.	<u>YARD AREAS</u>		
	A. Inventory orderly?	<input type="checkbox"/>	<input type="checkbox"/>
	B. Weeds and grass mowed?	<input type="checkbox"/>	<input type="checkbox"/>
	C. Debris picked up?	<input type="checkbox"/>	<input type="checkbox"/>
	D. Propane tank in good condition?	<input type="checkbox"/>	<input type="checkbox"/>
	E. Propane tank secured?	<input type="checkbox"/>	<input type="checkbox"/>
	F. Properly lighted?	<input type="checkbox"/>	<input type="checkbox"/>
3.	<u>PLANT AREAS</u>		
	A. Floors, walls, and equipment clean?	<input type="checkbox"/>	<input type="checkbox"/>
	B. Ladders and steps in good condition?	<input type="checkbox"/>	<input type="checkbox"/>
	C. Electrical boxes in good condition?	<input type="checkbox"/>	<input type="checkbox"/>
	D. Electrical boxes closed?	<input type="checkbox"/>	<input type="checkbox"/>
	E. Electrical power room clean?	<input type="checkbox"/>	<input type="checkbox"/>
	F. Smoking not allowed?	<input type="checkbox"/>	<input type="checkbox"/>
	G. Customers kept out of processing area?	<input type="checkbox"/>	<input type="checkbox"/>
	H. Fire extinguishers checked?	<input type="checkbox"/>	<input type="checkbox"/>
	I. Bearings properly greased?	<input type="checkbox"/>	<input type="checkbox"/>
	J. Equipment in good condition?	<input type="checkbox"/>	<input type="checkbox"/>
	K. Conveyors and drive belts covered?	<input type="checkbox"/>	<input type="checkbox"/>
4.	<u>WAREHOUSE AREAS</u>		
	A. Clean?	<input type="checkbox"/>	<input type="checkbox"/>
	B. Aisles clear?	<input type="checkbox"/>	<input type="checkbox"/>
	C. Fire extinguishers in good condition?	<input type="checkbox"/>	<input type="checkbox"/>
	D. Tools in good condition?	<input type="checkbox"/>	<input type="checkbox"/>
	E. Equipment in good condition?	<input type="checkbox"/>	<input type="checkbox"/>
	F. Customers kept out of area?	<input type="checkbox"/>	<input type="checkbox"/>
	G. Are all material containers properly labeled?	<input type="checkbox"/>	<input type="checkbox"/>
5.	<u>SHOP</u>		
	A. Work benches clean?	<input type="checkbox"/>	<input type="checkbox"/>
	B. Tools kept in proper place?	<input type="checkbox"/>	<input type="checkbox"/>
	C. Floors clean and free of oil?	<input type="checkbox"/>	<input type="checkbox"/>
	D. Tools in good condition?	<input type="checkbox"/>	<input type="checkbox"/>
	E. Fire extinguisher in good condition?	<input type="checkbox"/>	<input type="checkbox"/>
	F. Customers kept out of work area?	<input type="checkbox"/>	<input type="checkbox"/>

(Explain all items checked "No.")

Comments: _____

STAN'S
Alpena, SD



Reviewed: 06/08/2018



**Stan's
1008 Railway Avenue
Alpena, SD 57312**

**Main Office Phone:
605-849-3582**

**Main Office Fax:
605-849-3599**

EMERGENCY ACTION PLAN

Policy Statement

It is the policy of Stan's to provide a safe and healthful workplace for all employees. In the event of an emergency situation, the Emergency Action Plan developed by Stan's will serve as the plan of action for a safe effective conclusion of the emergency situation.

Within this Emergency Action Policy:

- All employees will be familiar with the guidelines set forth in the Emergency Action Plan.
- All employees will receive training upon initial assignment or when job changes create new or different responsibilities.
- All revisions made to the Emergency Action Plan will be communicated to all affected employees.
- Stan's employee training will be the responsibility of their supervisors. Supervisors will address any questions or concerns regarding the Emergency Action Plan.

Lori Haak will keep the Emergency Action Plan current at all times, with updates whenever job changes are made, exposures to new hazards are created, or additional emergency potentials are identified.

- Copies of the Emergency Action Plan will be kept in the main office at each location under control of Stan's.
- A master copy of all Stan's location Emergency Action Plans will be retained at the main office.

CONTENTS

SECTION

- 1 EMERGENCY COORDINATOR AND ALTERNATES
- 2 RESPONSE NOTIFICATION LIST
- 3 RESPONSE NOTIFICATION PROCEDURE
- 4 EMERGENCY ACTION PROCEDURE
- 5 PRACTICE DRILLS
- 6 FACILITY LAYOUT
- 7 PERSONNEL ROSTER
- 8 PLANS ON FILE
- 9 TRAINING REGISTER

SECTION 1

EMERGENCY COORDINATOR

Mike Kopfmann
NAME

Work: 605-849-3582 Cell: 605-350-7003
TELEPHONE

EMERGENCY COORDINATOR ALTERNATES

NAME

TELEPHONE

1. Lori Haak 605-849-3582 Cell: 605-216-5674
2. Tammy Bierman 605-849-3582 Cell: 605-228-2271
3. Les Eckels 605-849-3582 Cell: 605-350-0457

MEDIA COORDINATOR

Mike Kopfmann
NAME

605-849-3582
TELEPHONE

MEDIA COORDINATOR ALTERNATES

NAME

TELEPHONE

1. Tammy Bierman 605-849-3582
2. Les Eckels 605-849-3582

SECTION 2

RESPONSE NOTIFICATION LIST

FIRE DEPARTMENT	<u>605-849-3535</u>
AMBULANCE (Huron Dispatch).....	<u>605-353-8550</u>
SHERIFF.....	<u>605-539-1311</u>
HOSPITAL(s)	
1. <u>Huron Regional Medical Center 605-353-6228</u>	
2. <u>Huron Clinic 605-352-8691</u>	
NEIGHBORING FACILITIES	
1. <u>Agtegra 605-849-3252</u>	
ELECTRIC POWER COMPANY.....	<u>1-800-245-6977</u>
Northwestern Energy – 7am-6pm M-F	
GAS COMPANY.....	<u>1-800-245-6977</u>
Northwestern Energy – 7am-6pm M-F	
DIG SAFE NORTHWESTERN ENERGY.....	<u>811</u>
NATIONAL RESPONSE CENTER.....	<u>1-800-424-8802</u>
POISON CONTROL CENTER.....	<u>1-800-332-6633</u>
REGIONAL OSHA (Bismarck).....	<u>701-250-4521</u>
E.P.A. (Sioux Falls Spill Number)	<u>605-773-3296 or 3231</u>
DM&E RAILROAD.....	<u>605-352-0010</u>
SD DEPT. OF ENVIRONMENT & NATURAL RES.	<u>605-773-3151</u>
SD OFFICE OF EMERGENCY MANAGEMENT.....	<u>605-773-3231</u>
SD DEPT. OF AGRICULTURE.....	<u>605-773-5436</u>
SD STATE FIRE MARSHALL.....	<u>605-773-3562</u>
LEPC (Jerauld County).....	<u>605-539-1802</u>

HEAVY EQUIPMENT OPERATORS

1. Mark Goral – Cell: 605-350-5875
2. Peterson Construction: 605-849-3515
3. SD Wheat Growers: 605-849-3252

GREAT WEST CASULTY (Trucks/Work Comp)... 800-228-8040

AG STATES (Buildings, Pickups, Personal)..... 800-548-1494

CITY OF ALPENA..... 605-849-3432

VICE PRESIDENT (Mike Kopfmann)..... 605-849-3582 Cell: 605-350-7003

FEED SALES MANAGER (Stan Kopfmann)..... 605-849-3582 Cell: 605-350-7826

DISPATCH MANAGER (Joey Kilmartin)..... 605-849-3460 Cell: 361-876-0625

FEED MILL MANAGER (Justin Friese)..... 605-849-3570 Cell: 605-450-8964

GENERAL MANAGER (Les Eckels)..... 605-849-3582 Cell: 605-350-0457

SAFETY & COMPLIANCE DIRECTOR (Lori Haak) 605-849-3582 Cell: 605-216-5674

SECTION 3

EMERGENCY NOTIFICATION PROCEDURE

1. Call 605-353-8550 (Huron Dispatch) and the main office immediately:
605-849-3582 (use a cell phone if possible)
2. When reporting an emergency, stay calm and give the following basic information:

BASIC INFORMATION TO BE SUPPLIED

- Name of facility.
 - Address of the facility.
 - Caller's name (say it clearly).
 - Phone number to call back if needed.
 - Type of emergency:
 - a. Chemical spill.
 - b. Chemical fire and/or explosion.
 - Injuries, if any:
 - a. Number of people injured.
 - b. Trapped or other pertinent information.
 - Extent of emergency:
 - a. Fire in/out of control.
 - b. Explosion did/did not occur.
 - c. Explosion likely/unlikely.
 - d. Evacuation of area anticipated/not anticipated.
 - Any known special needs - equipment, respirators, oxygen tanks, etc.
3. Contact local EMT if immediate attention is needed.

Linda Schacht – 605-849-3249 (work)

Gary Orth – 605-354-2269

Bruce Orth – 605-530-7043

Gerry Orth – 605-530-4746

Alpena Fire Dept – 605-849-3535

4. All employees who do not have designated duties proceed to the nearest safe exit. (See Section 4)
5. Once safely outside, report to the head count area. This area, fire extinguishers, emergency exits and routes are highlighted on floor plans posted throughout the facility.
6. Emergency Coordinator – Mike Kopfmann
Office: 605-849-3582
Cell: 605-350-7003

Alternates: - Lori Haak

Office: 605-849-3582

Cell: 605-216-5674

Tammy Bierman

Office: 605-849-3582

Cell: 605-228-2271

SECTION 4

EMERGENCY ACTION PROCEDURE

As an employee of Stan's, your first concern in an emergency is fellow employees, visitors, contractors working on site, and the surrounding community.

Personally direct any emergency efforts toward preventing personal injury or death, avoiding damage to the environment, and minimizing property damage, in that order.

TAKE NO ACTION if unreasonable risk is involved. Call in professional services and wait for them to arrive.

The highest-ranking supervisor present has final authority to determine all action until arrival of a higher authority or professional services.

SECTION 4 - EMERGENCY ACTION PROCEDURE (continued)

FIRE/EXPLOSION

1. Sound the alarm – EMPLOYEE ALARM IS - VOICE, RADIO OR INTERCOM SYSTEM – notify the main office
2. Call the fire department before attempting to fight the fire.
3. If the fire is small and has not spread beyond its point of origin, try to extinguish the fire with the proper fire extinguisher.
4. Do not attempt to fight the fire with a fire extinguisher if the fire has spread beyond its point of origin.
5. If possible, disconnect electrical power and shut off gas supply.
6. Proceed to the rendezvous area located at:
 - **Stan's Feed Mill:** Parking area east of the office
 - **Stan's Dispatch/Truck Shop:** Parking area west of the office
 - **Stan's Farm:** Parking area south of the shed.
7. Use emergency exits only, walk don't run, test doors, feel for heat, close doors behind you.
8. The Emergency Coordinator will check the Personnel Roster (Section 8) to account for all employees and visitors.
9. Initiate the Emergency Notification Procedures (Section 3).
10. Assist police and fire department personnel as instructed to direct traffic, assist rescue, etc..
11. **DO NOT MAKE ANY COMMENTS OR STATEMENTS TO NEWS REPORTERS. SIMPLY INFORM ALL MEDIA SOURCES TO CONTACT Stan's and talk to Mike Kopfmann. No one else is to talk to the media.**
12. Initiate action to contain any hazardous materials such as stopping a leak, constructing a dike, putting out sorbents; or whatever means necessary to control the material. Be sure to follow the procedures stated on the Material Safety Data Sheets.

SECTION 4 - EMERGENCY ACTION PROCEDURE (continued)

TORNADO

1. Sound alarm – **EMPLOYEE ALARM IS – VOICE, RADIO OR INTERCOM SYSTEM** – notify the main office.
2. Shut down electrical power.
3. Evacuate upper levels of buildings and seek shelter in basement or interior room away from windows. Main office and feed mill, go to the basement. Dispatch office, Heartland Pork Office, shop and wash bay go to the lunch room.
4. If time does not allow for evacuation, seek shelter under heavy furniture, or against the wall nearest the direction of the tornado. **AVOID WINDOWS.**
5. After the tornado has passed, proceed to the rendezvous area located at:
 - **Stan's Feed Mill:** Parking area east of the office
 - **Stan's Dispatch/Truck Shop:** Parking area west of the office.
 - **Stan's Farm:** Parking area south of the shed.
6. The Emergency Coordinator will check the Personnel Roster (Section 8) to account for all employees and visitors.
7. Initiate the Emergency Notification Procedure (Section 3).
8. Assist police and fire department personnel as instructed to direct traffic, assist rescue, etc...
9. **DO NOT MAKE ANY COMMENTS OR STATEMENTS TO NEWS REPORTERS. SIMPLY INFORM ALL MEDIA SOURCES TO CONTACT Stan's and talk to Mike Kopfmann. No one else is to talk to the media.**
10. Initiate action to contain any hazardous materials such as stopping a leak, constructing a dike, putting out sorbents; or whatever means necessary to control the material. Be sure to follow the procedures stated on the Material Safety Data Sheets.

SECTION 4 - EMERGENCY ACTION PROCEDURE (continued)

CHEMICAL RELEASES

1. Notify all employees and visitors in the general area.
2. Refer to the corresponding Material Safety Data Sheet for information on the product(s) spilled.
3. Initiate the Emergency Notification Procedures (Section 3).
4. Attempt to stop the flow of product after the appropriate personal protective equipment is being utilized.
5. Initiate action to contain the hazardous material, construct dike, put out sorbents, or use whatever means necessary to control the material.
6. Initiate clean up procedures for the spilled material.
7. Call the fire department and/or State Emergency Response, Chemtrec.
8. Assist police and fire department personnel as instructed to direct traffic, assist rescue, etc.
9. **DO NOT MAKE ANY COMMENTS OR STATEMENTS TO NEWS REPORTERS. SIMPLY INFORM ALL MEDIA SOURCES TO CONTACT Stan's and talk to Mike Kopfmann. No one else is to talk to the media.**

SECTION 4 - EMERGENCY ACTION PROCEDURE (continued)

FATALITY

1. Notify 911 and the Main Office immediately – 849-3582
2. Notify Great West ASAP! 800-228-8040
3. If it is a truck accident fatality, complete/maintain a file on the incident.
4. If there is a fatality elsewhere, like in the shop or the mill after calling Great West, Mike Kopfmann or Les Eckels will contact the Regional OSHA Office in Bismarck (701-250-4521) and make a verbal report.
5. Great West will send someone out ASAP to help in coordinating and managing the situation.
6. **DO NOT MAKE ANY COMMENTS OR STATEMENTS TO NEWS REPORTERS. SIMPLY INFORM ALL MEDIA SOURCES TO CONTACT Stan's and talk to Mike Kopfmann. No one else is to talk to the media.**

SECTION 5

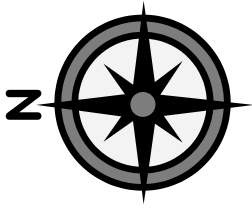
PRACTICE DRILLS

Stan's will hold an emergency practice drill once each year. Before the drill is carried out, all employees will be notified that a drill will be conducted. There should be no surprise drills due to the hazard of emergency surprises.

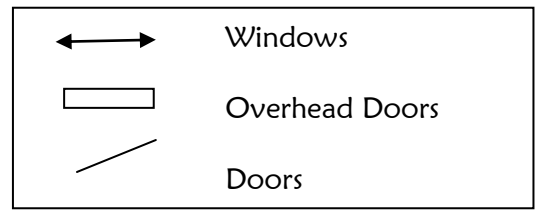
During the drill, any problems will be noted so that changes can be made to prevent actual emergency problems.

When the emergency alarm is sounded, all personnel will respond as though an actual emergency were in progress.

Following the practice drill, the Emergency Coordinator will issue a report indicating the results of the drill and changes to be made.



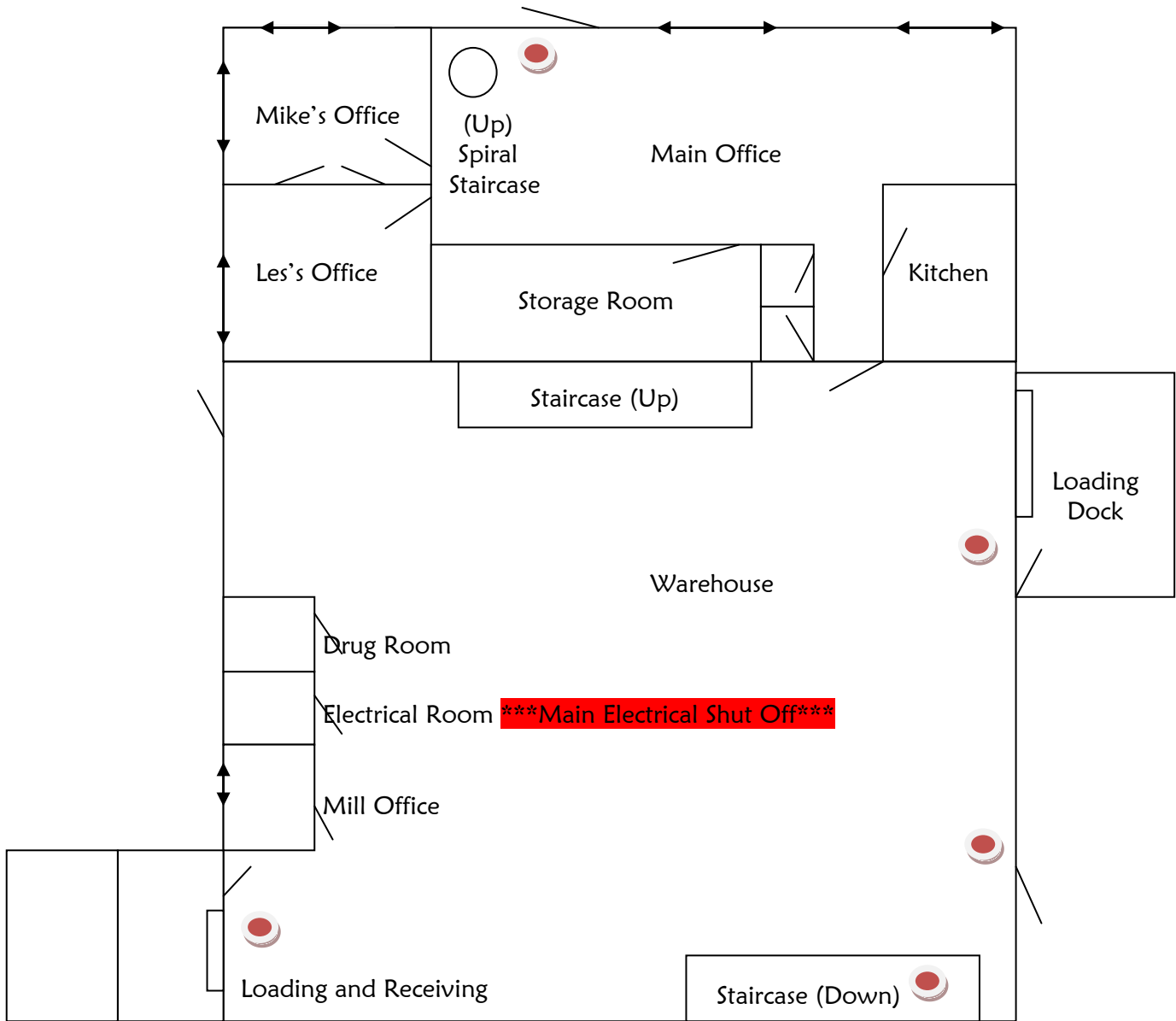
SECTION 6

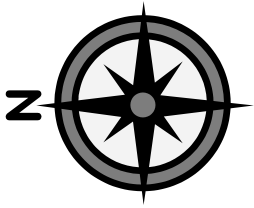


FACILITY LAYOUT – FIRST FLOOR (MAIN OFFICE)

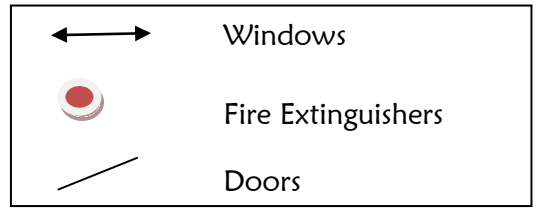
+++++Railroad+++++
=====Railway Ave=====

Stan's Parking Lot (East)
Rendezvous Area

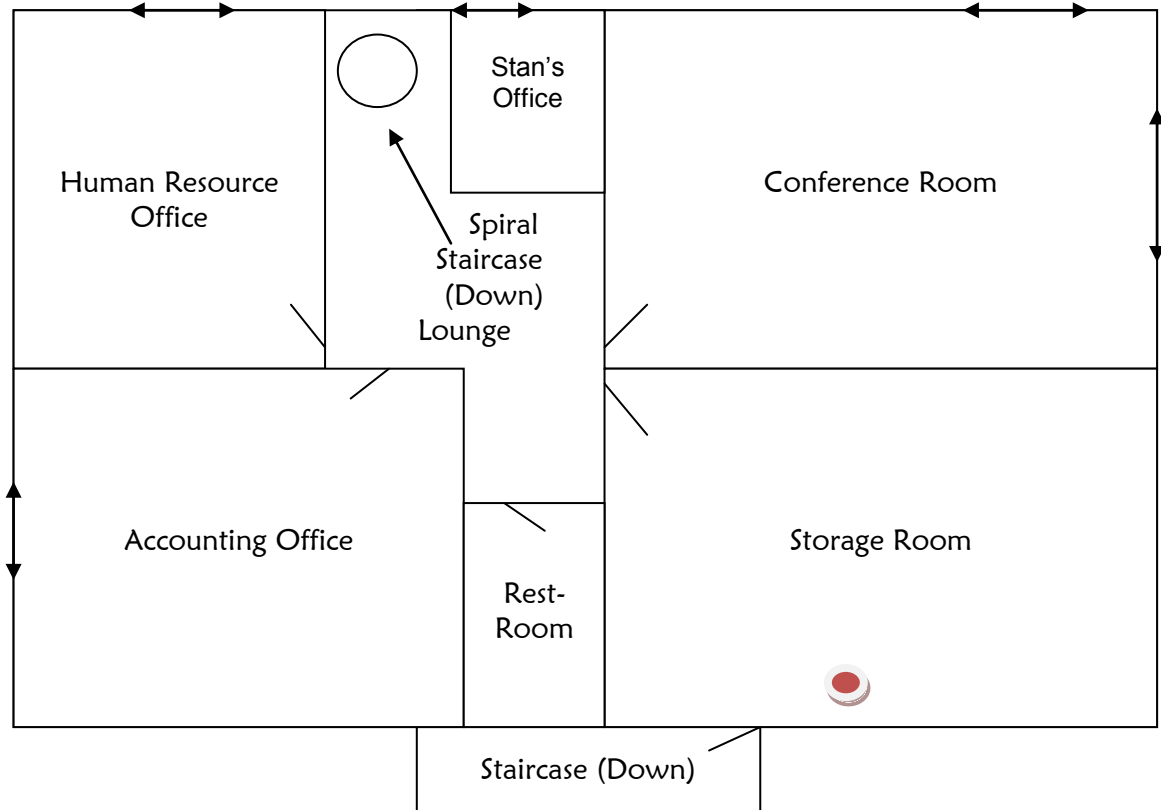


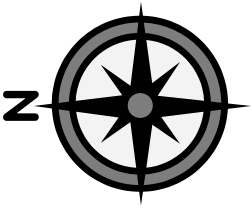


SECTION 6



FACILITY LAYOUT – SECOND FLOOR (MAIN OFFICE)

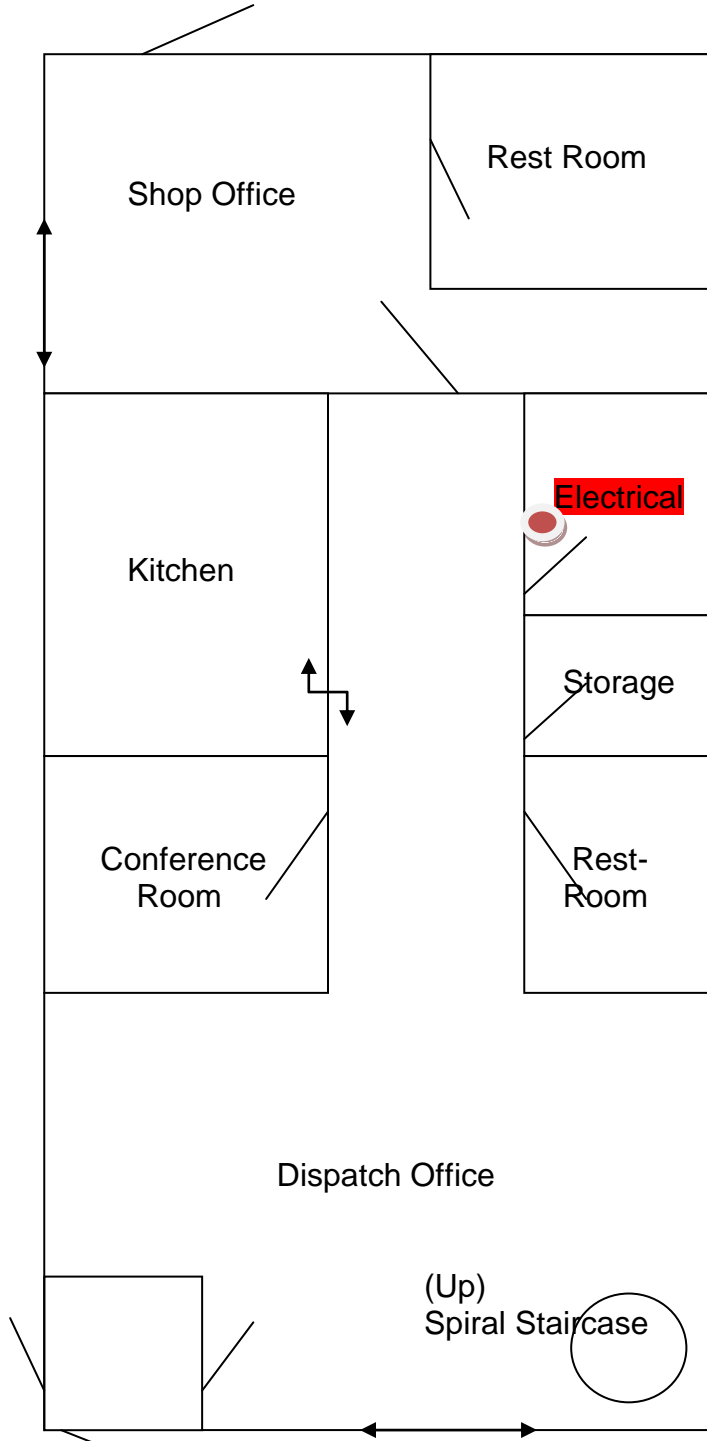




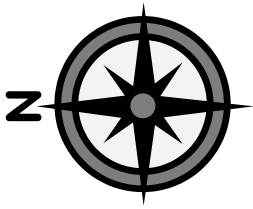
SECTION 6

	Windows
	Fire Extinguisher
	Doors
	Pocket Door

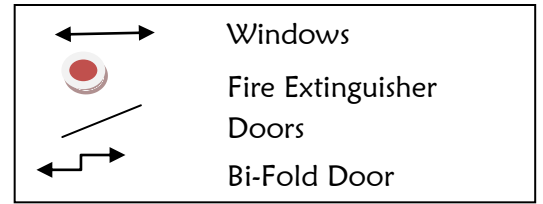
FACILITY LAYOUT – FIRST FLOOR (DISPATCH OFFICE)



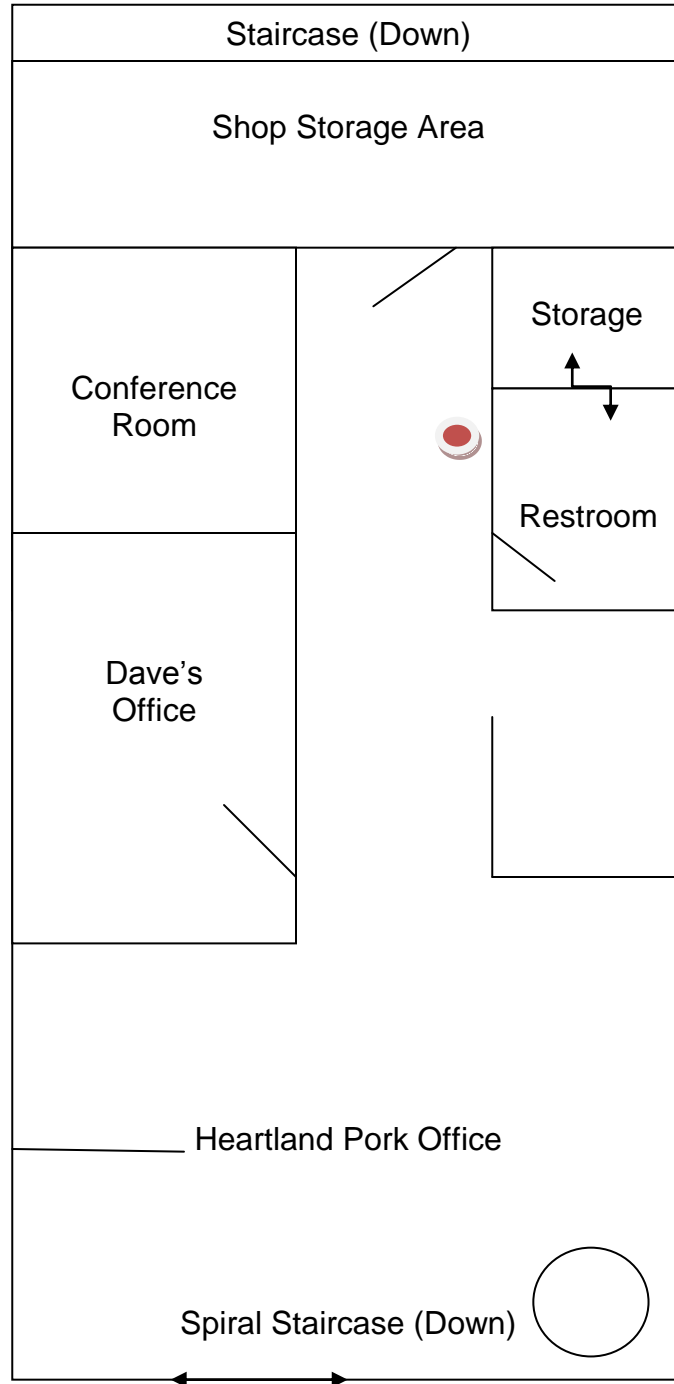
Stan's Parking Lot (West) Rendezvous Area



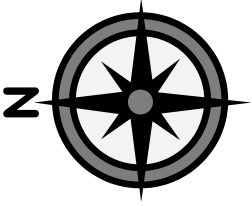
SECTION 6



FACILITY LAYOUT – SECOND FLOOR (DISPATCH OFFICE)

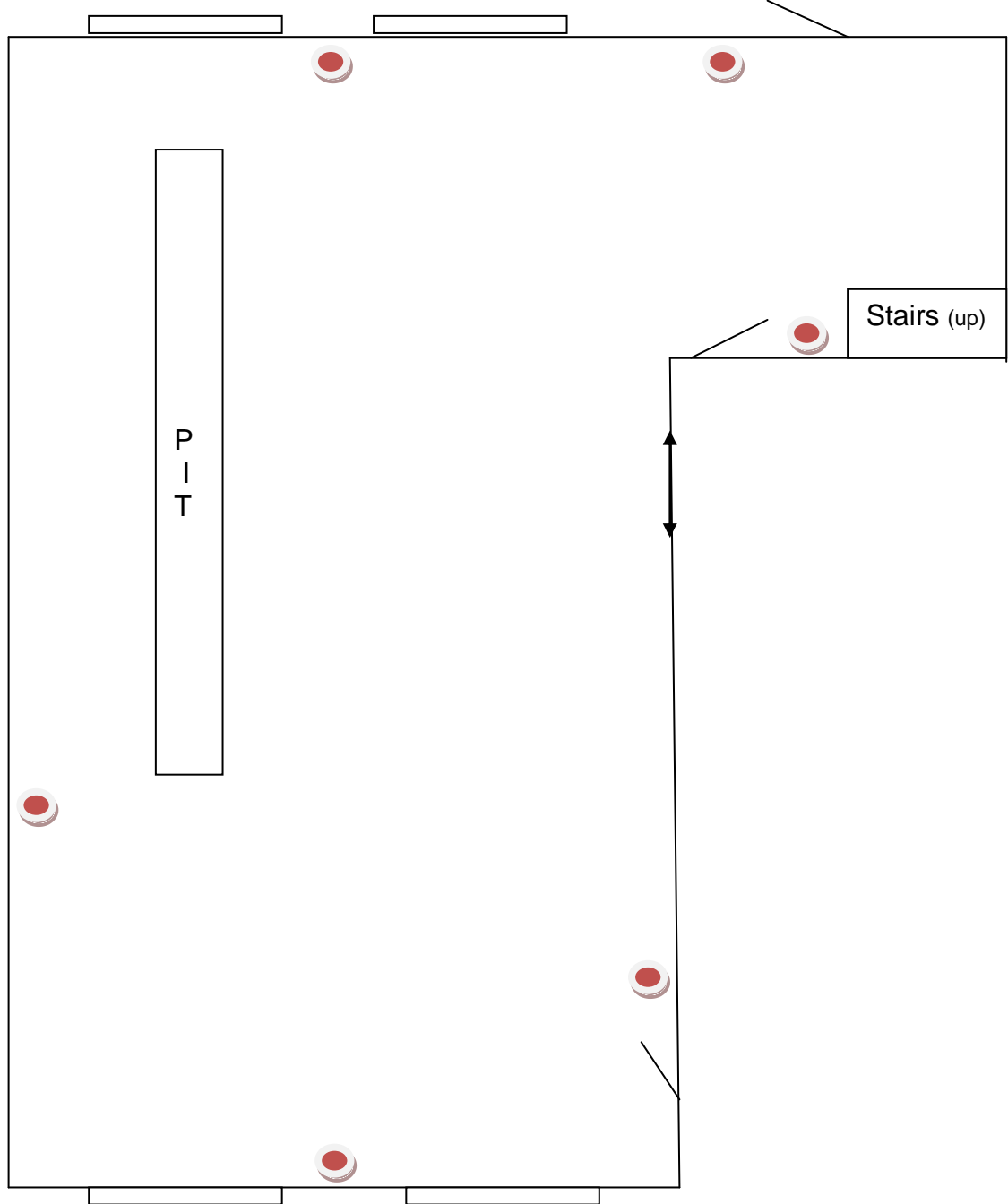


Stan's Parking Lot (West) Rendezvous Area



SECTION 6

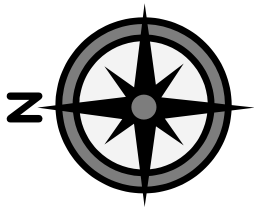
FACILITY LAYOUT – FIRST FLOOR (TRUCK SHOP)



Stan's Parking Lot (West) Rendezvous Area

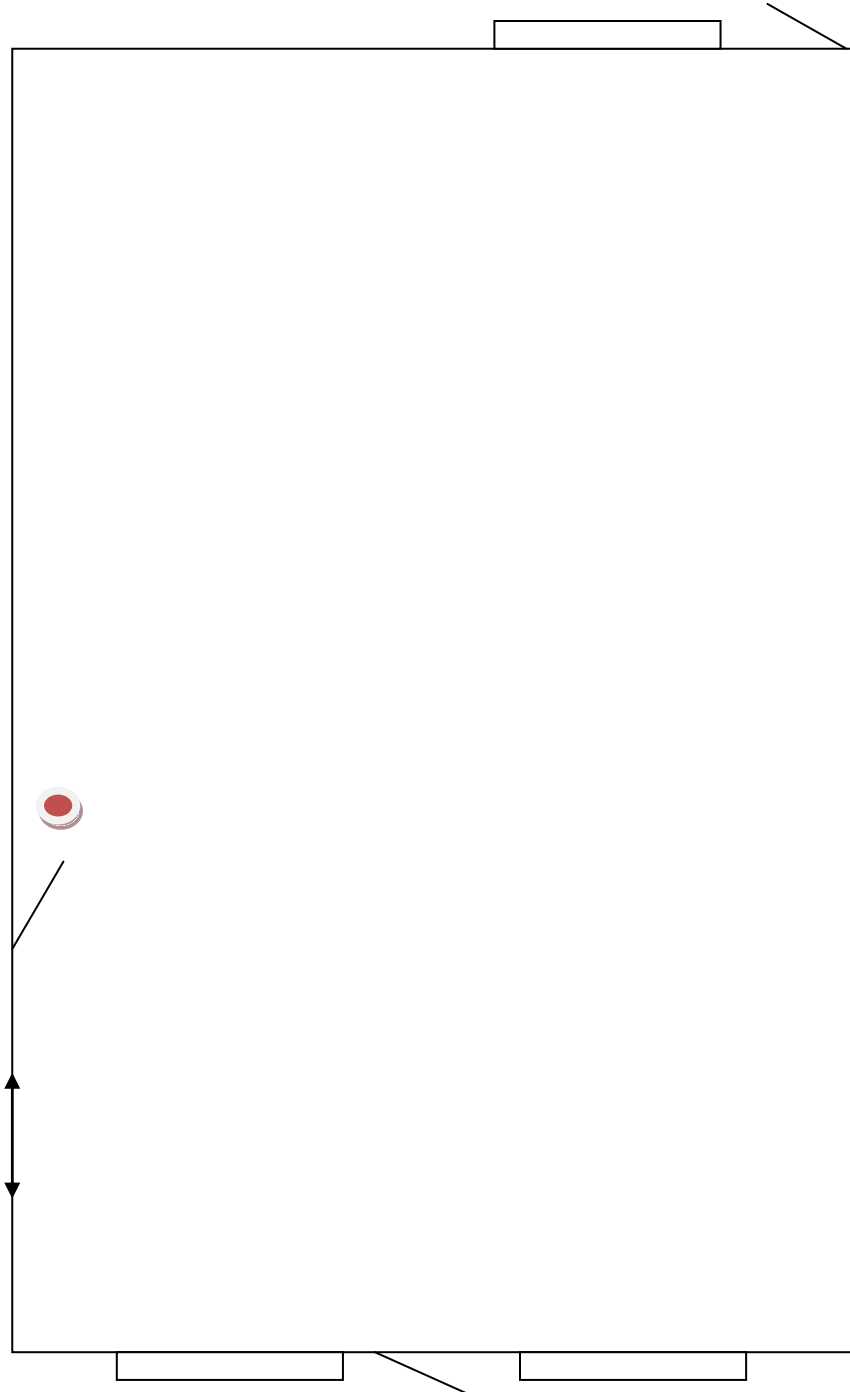
EMERGENCY ACTION PLAN

	Windows
	Overhead Doors
	Doors
	Fire Extinguishers



SECTION 6

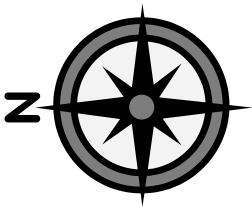
FACILITY LAYOUT – FIRST FLOOR (WASHBAY)



Stan's Parking Lot (West) Rendezvous Area

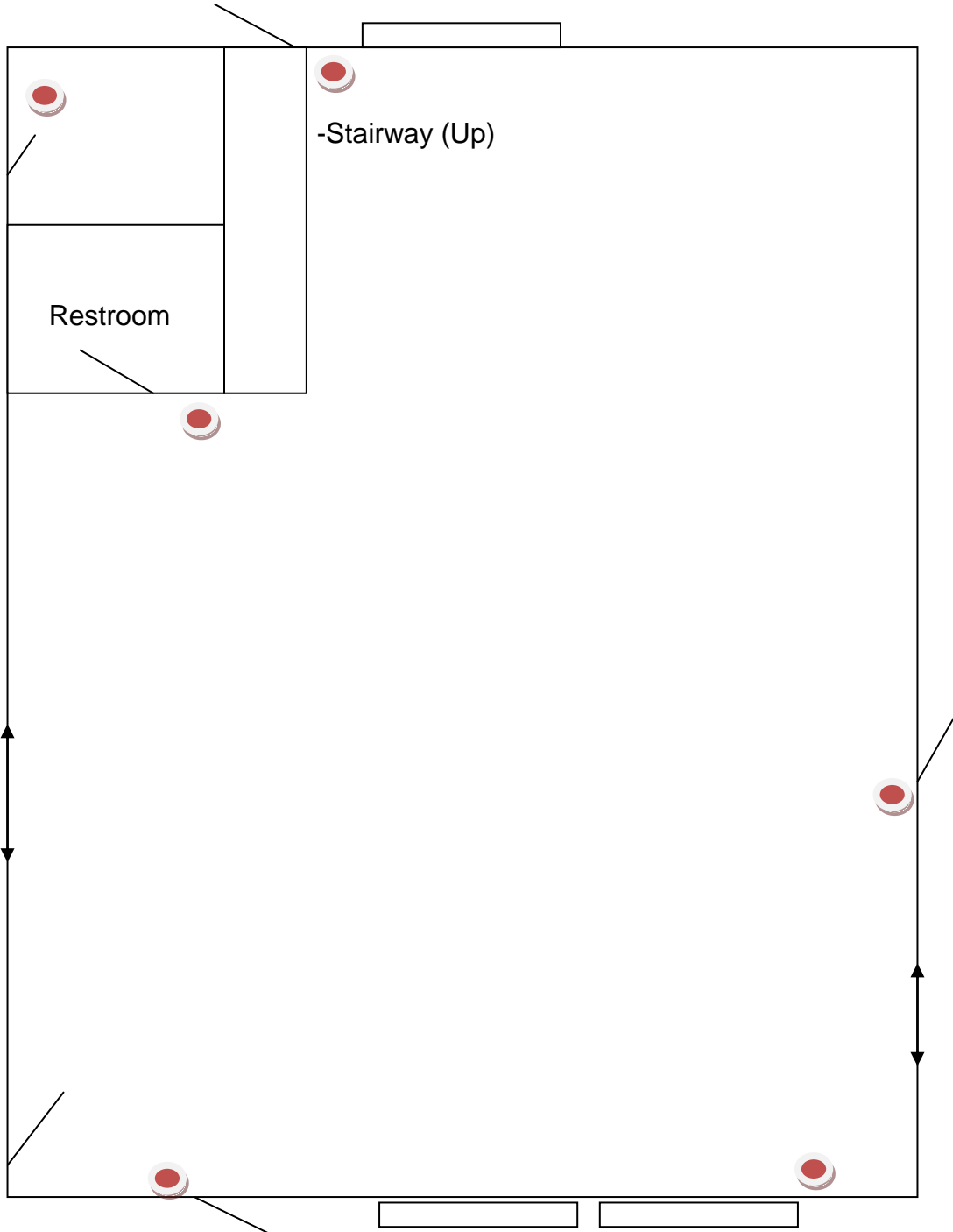
EMERGENCY ACTION PLAN

	Windows
	Overhead Doors
	Doors
	Fire Extinguishers



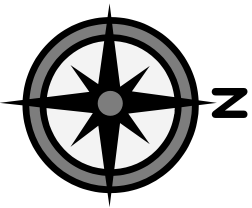
SECTION 6

FACILITY LAYOUT – FIRST FLOOR (SHACK SHOP)



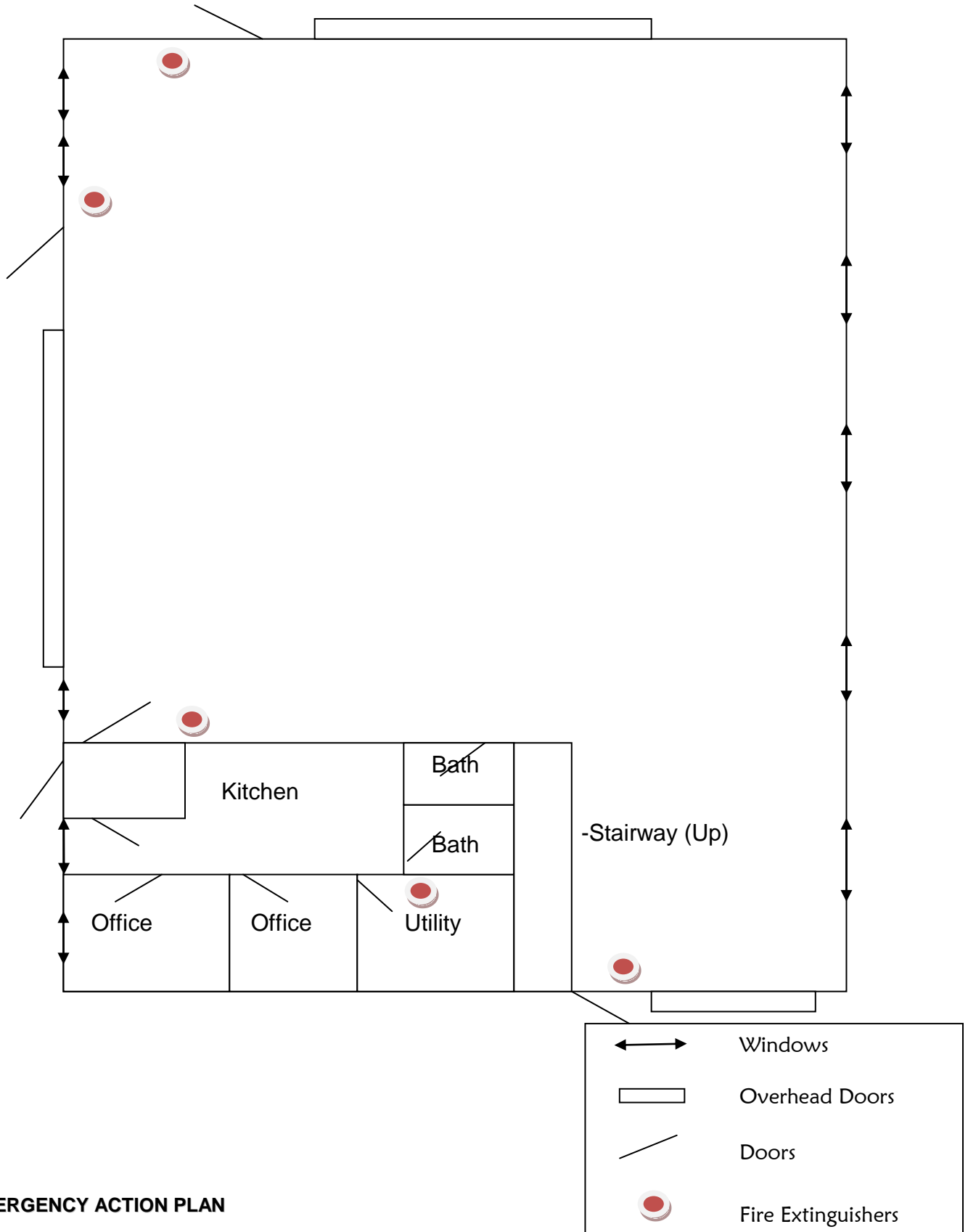
EMERGENCY ACTION PLAN

	Windows
	Overhead Doors
	Doors
	Fire Extinguishers



SECTION 6

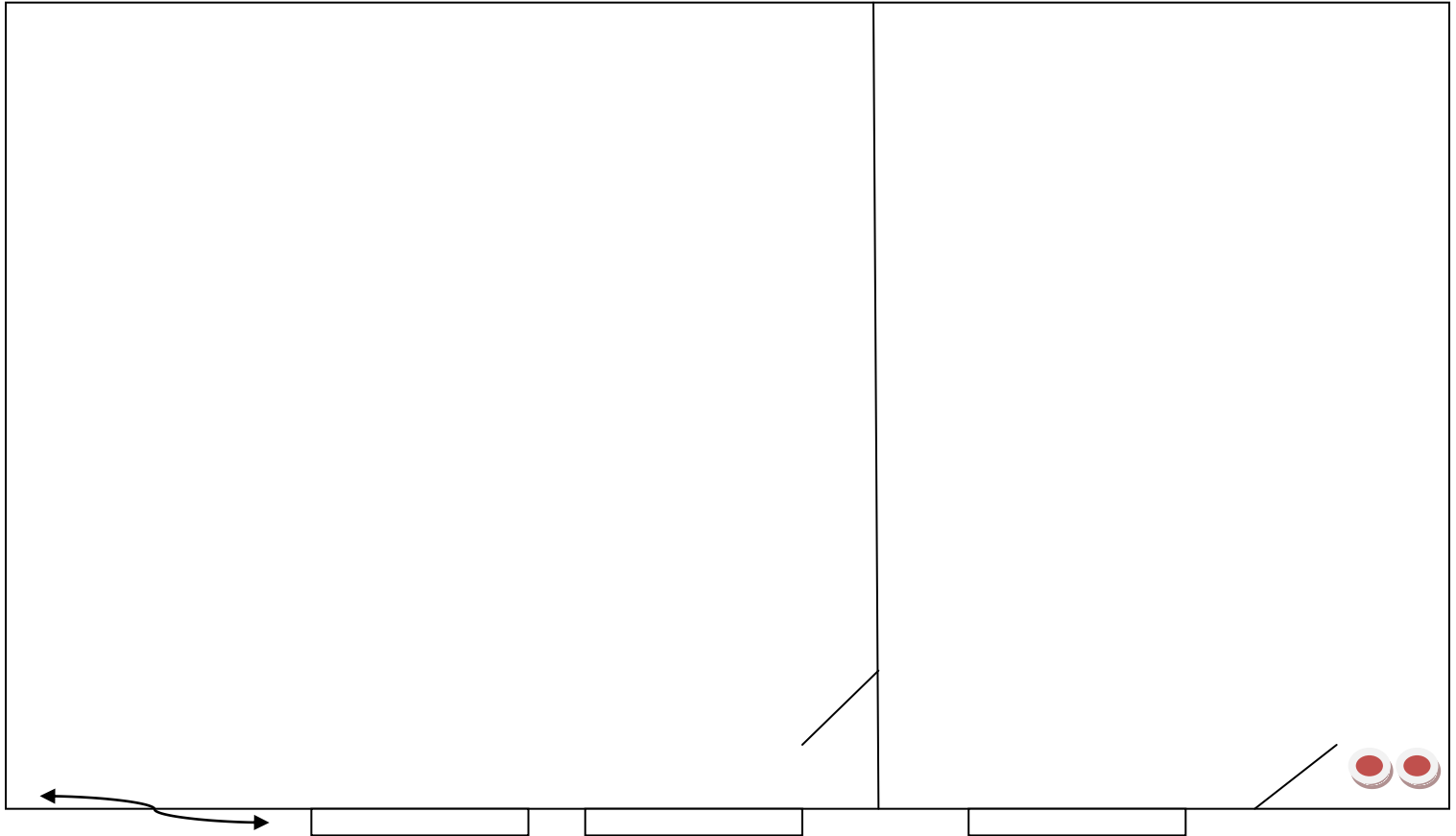
FACILITY LAYOUT – NEW FARM SHOP



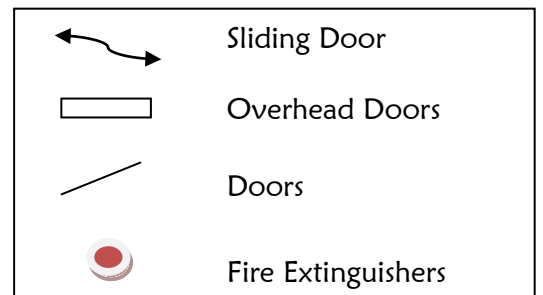


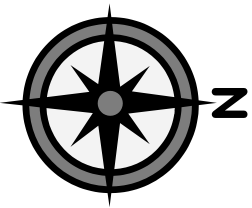
SECTION 6

FACILITY LAYOUT – OLD FARM SHOP



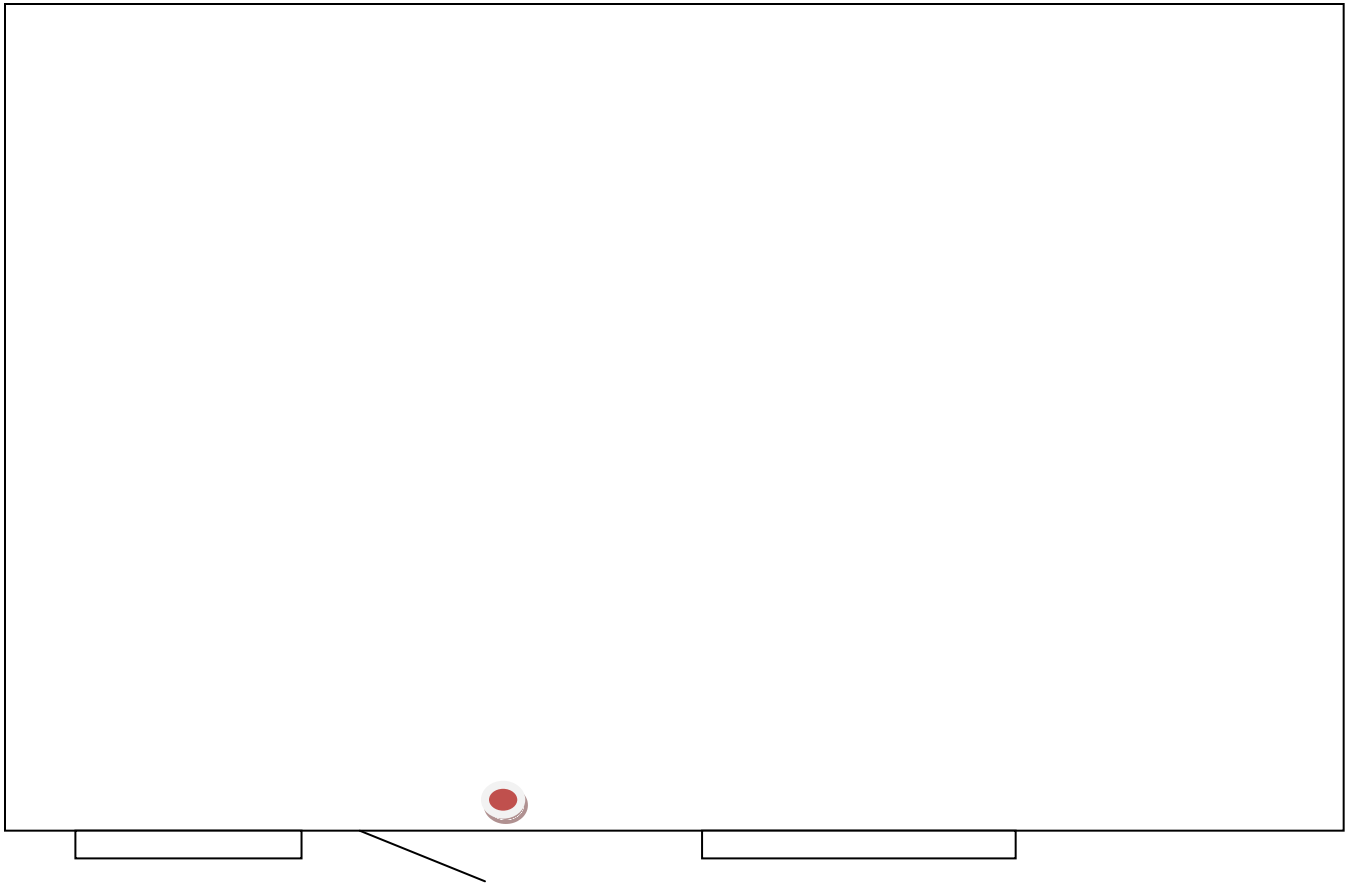
EMERGENCY ACTION PLAN









SECTION 6

FACILITY LAYOUT – COLD STORAGE



EMERGENCY ACTION PLAN

	Windows
	Overhead Doors
	Doors
	Fire Extinguishers

SECTION 8

PLANS ON FILE

INTERNAL

	<u>LOCATION</u>	<u>CONTACT PERSON</u>
1.	Main Office	Lori Haak
2.	Dispatch Office	Joey Kilmartin
3.		
4.		
5.		

OUTSIDE AGENCIES

<u>ORGANIZATION</u>	<u>LOCATION</u>	<u>CONTACT PERSON</u>	<u>TELEPHONE</u>

SECTION 9

TRAINING REGISTER

DATE: _____

TYPE OF TRAINING: _____

INSTRUCTOR: _____

EMPLOYEE NAME	SIGNATURE

STAN'S
Alpena, SD

**PERSONAL
PROTECTIVE
EQUIPMENT**



PERSONAL PROTECTIVE EQUIPMENT

GENERAL REQUIREMENTS

EYE AND FACE PROTECTION

OSHA requires that the employer shall ensure that affected employees use appropriate eye or face protection when exposed to hazards from flying particles, molten metal, liquid chemicals, chemical gases or vapors, or potentially injurious light radiation. The employer shall ensure that employees use eye protection that provides side protection when there is a hazard from flying objects. Detachable side protectors (e.g. clip-on or slide-on side shields) meeting the requirements are acceptable.

EYE AND FACE PROTECTION

The employer shall ensure that employees who wears prescription lenses while engaged in operations that involve eye hazards wear eye protection that incorporates the prescription in its design, or wears eye protection that can be worn over the prescription lenses without disturbing the proper position of the prescription lenses or the protective lenses. The employer shall also ensure that employees use equipment with filter lenses that have a shade number appropriate for the work being performed for protection from injurious light radiation such as would be encountered in a welding operation.

DESIGNATED EYE PROTECTION AREAS

Safety glasses will be worn at all times in the wash bay and shop. Face shields are to be worn in the shop when welding. Safety glasses are available in the feed mill for employees and visitors.

TYPE OF EYE WEAR

Safety glasses are provided to all shop and wash bay and feed mill employees. Safety glasses are also available at the entrances to the shop and wash bay. Face shields are also available for wash bay employees.

Suitable eye protectors must be provided where machines or operations present the hazard of flying objects, glare, liquids, injurious radiation, or a combination of these hazards. The National Society to Prevent Blindness recommends that emergency eyewashes be placed in all hazardous locations. First-aid instructions should be posted close to such potential danger spots since any delay to immediate aid or an early mistake in dealing with an eye injury can result in lasting damage. A good example of this would be the emergency water placement and use with anhydrous ammonia operations.

PROPER EYE PROTECTION FIT AND MAINTENANCE

- * Your protective eye wear should fit firmly but not tightly; as close to your eyes as possible without eyelashes hitting the lenses.
- * Eye protection wear should not interfere with body movement.
- * Eye protection must be kept clean and in good repair. Continuous vision through dirty or scratched lenses can cause eye strain.
- * Never wear someone else's eye protection.

HAND PROTECTION

Examples of injuries to arms and hands are burns, cuts, amputation, and electrical shock. There is a wide assortment of gloves, hand pads, sleeves, and wristlets for protection from various hand hazard situations.

In some cases, implementing engineering controls such as proper machinery guarding can help a great deal in decreasing the hazards to hands and arms.

DESIGNATED HAND PROTECTION AREAS AND DUTIES

Hand protection is required in the shop when welding.

TYPES OF HAND PROTECTION REQUIRED

Welding gloves and sleeves are available in the shop for welding.

PROPER GLOVE FIT AND MAINTENANCE

- * Protective gloves should fit well enough to allow the proper dexterity for the job being performed.
- * It is important that gloves be kept clean and in good condition.
- * Gloves that have been contaminated with a toxic chemical should be de-contaminated. If they cannot be de-contaminated, they should be disposed of in a proper manner.
- * Torn or damaged gloves should be replaced.

FOOT PROTECTION

OSHA requires that the employer shall ensure that employees use protective footwear when working in areas where there is a danger of foot injuries due to falling or rolling objects, or objects piercing the sole, and where employee's feet are exposed to electrical hazards.

Safety shoes should be sturdy and have an impact-resistant toe. In some shoes, metal insoles protect against puncture wounds. Additional protection, such as metatarsal guards (bones behind the toes), may be found in some types of footwear. Safety footwear is classified according to its ability to meet minimum requirements for both compression and impact tests. There are also leggings available for protection against molten metal and welding sparks.

DESIGNATED FOOT PROTECTION AREAS

All Stan's employees are required to wear closed toed shoes.

PROPER FOOT WEAR AND MAINTENANCE

Foot wear should be cleaned regularly and have non skid soles.

HEARING PROTECTION

Exposure to high noise levels can cause hearing loss or impairment. It can create physical and psychological stress. There is no cure for noise-induced hearing loss, so the prevention of excessive noise exposure is the only way to avoid hearing damage. Specifically designed protection is required, depending on the type of noise encountered.

OSHA requires that the employer assess the noise hazard and administer a continuing, effective hearing conservation program whenever employee noise exposures equal or exceed an 8-hour time-weighted average (TWA) of 85 decibels or more. This is referred to as the action level or the time in-which to implement a noise conservation program.

Pre-formed or molded ear plugs should be individually fitted by a professional. Waxed cotton, foam, or fiberglass wool ear plugs are self-forming. When properly inserted, they work as well as the molded ear plugs. Some ear plugs are disposable; to be used one time and then thrown away. The non-disposable type should be cleaned after each use for proper protection. Plain cotton is not effective protection against hazardous noise. Earmuffs need to make a perfect seal around the ear to be effective. Glasses, long sideburns, long hair, and facial movements such as chewing, can reduce protection. For extremely noisy situations, earplugs should be worn in addition to earmuffs.

6 Personal Protective Equipment

HEARING PROTECTION

Ear muffs must be worn in the feed mill area if the mill is running the vibrator on the bins to loosen bulk products.

RESPIRATORY PROTECTION

Hazards to the lungs are not always easy to detect. Some of the most common hazards are the lack of oxygen and the presence of harmful dust, fogs, smokes, mists, fumes, gases, vapors, or sprays including substances that may cause cancer, lung impairment, other diseases, or death. Respirators prevent the entry of harmful substances into the lungs during breathing. Some respirators also provide a separate supply of breathable air so work can be performed where there is inadequate oxygen, or where greater protection is needed.

OSHA states that atmospheric contamination controls should be accomplished as far as feasible by accepted engineering control measures (e.g. enclosure or confinement of the operation, general and local ventilation, and substitution of less toxic materials). When effective engineering controls are not feasible, or while they are being instituted, appropriate respirators shall be used. The employer shall provide respirators which are applicable and suitable for the purpose intended, provide training in their use and have a written standard operating procedure for the use and maintenance of all respirators.

There are two basic types of respirators.

- * Air purifying respirators, which remove contaminants from the air.
- * Air supplying respirators, which supply clean, uncontaminated air from an independent source.

RESPIRATORY PROTECTION

Filtered dust masks must be used when dumping bags in on the micro table.

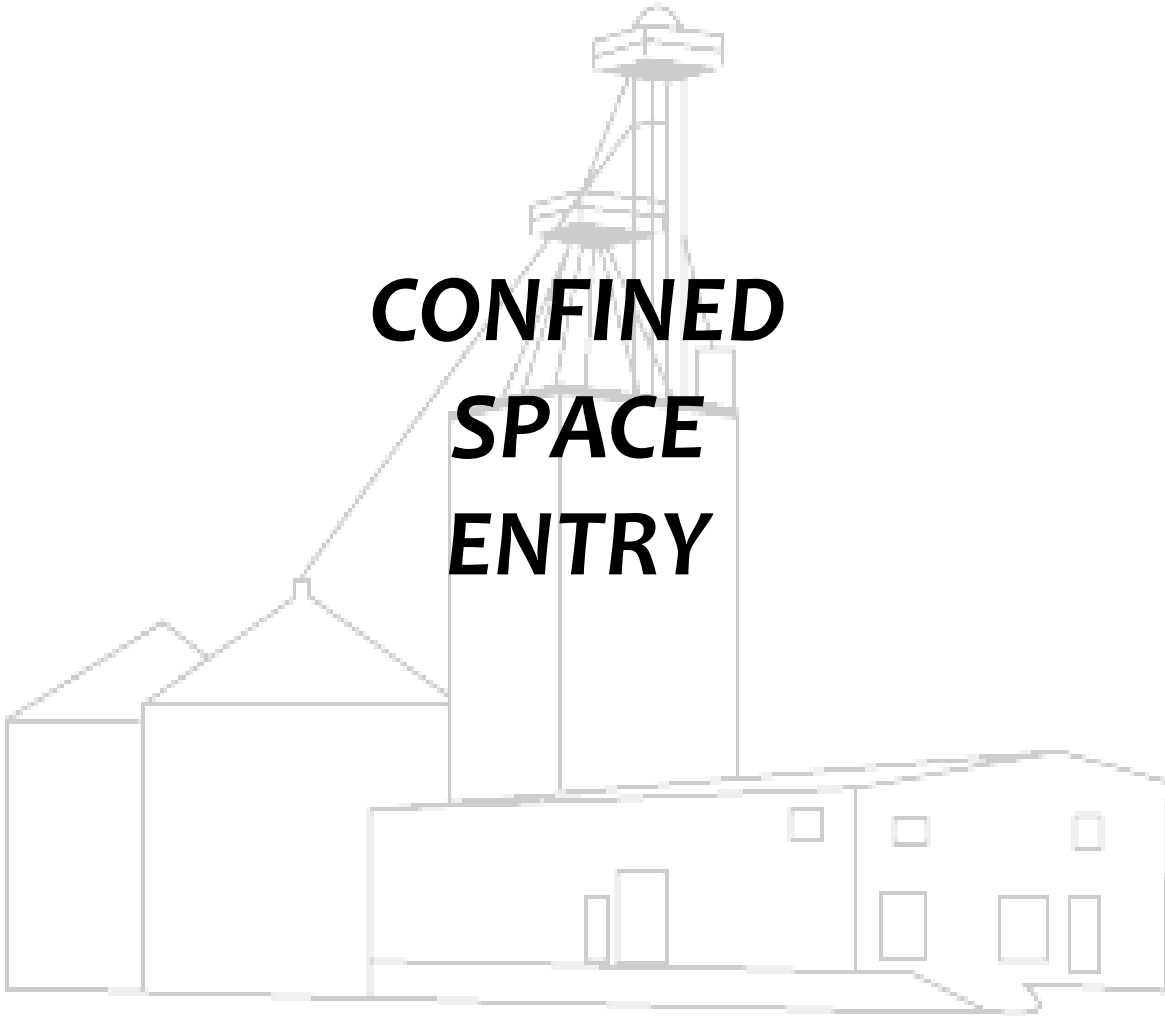
SEATBELT POLICY

Stan's employees are required to wear a seatbelt in any vehicle, company owned or personal, as long as they are on company time.

6 Personal Protective Equipment

STAN'S
Alpena, SD

**CONFINED
SPACE
ENTRY**



Stan's Inc.

***1008 Railway Ave
Alpena, SD 57312***

CONFINED SPACE PROGRAM

ENTRY INTO GRAIN STORAGE STRUCTURES

OSHA Regulation - 29 CFR 1910.272 (g) & (h)

***Lori Haak
05/30/2012***

BIN ENTRY PLAN

BIN ENTRY PERMITS ARE NEEDED FOR THE FOLLOWING BINS:

1. All grain bins
 2. Under the truck scale
 3. In the mixer
- USE PERMIT TO ENTER BINS *and* SPACES
 - RESCUE SERVICES IDENTIFIED
 - TEST AIR QUALITY
 - BIN ENTRY PERMIT WILL BE COMPLETED
 - If there are questions, review the following guidelines and contact the safety committee

February 1, 2011

Dear Grain Storage Facility Operator:

Last July, two teenagers (ages 14 and 19) were killed in a tragic incident involving a grain elevator in Illinois. Both young workers suffocated after being engulfed in a grain bin they had entered to help clear. A third young worker was pulled out of the storage bin alive, and was hospitalized after being trapped for 12 hours.

Unfortunately, this was not a rare occurrence and this trend is continuing. Researchers at Purdue University documented 51 grain entrapments in 2010 alone. The Occupational Safety and Health Administration (OSHA) has found that grain entrapments generally occur because of employer negligence, non-compliance with OSHA standards, and/or poor safety and health practices.

I am writing to you today because it is your responsibility to prevent your workers from dying in grain storage facilities. All employers, and especially those in high hazard industries such as the grain industry, must recognize as well as prevent workplace hazards. As an employer, you must be vigilant and always follow the long established, common sense safety practices that will prevent these tragedies. A copy of OSHA's [*Grain Handling Facilities standard, 29 CFR 1910.272*](#), is enclosed for your reference. This standard contains the rules that must be followed. States that operate their own occupational safety and health programs under plans approved by Federal OSHA enforce comparable standards but may have different or additional requirements. A list of State plans is available at www.osha.gov/dcsp/osp/index.html.

When workers enter storage bins, employers must (among other things):

1. Turn off and lock out all powered equipment associated with the bin, including augers used to help move the grain, so that the grain is not being emptied or moving out or into the bin. Standing on moving grain is deadly; the grain can act like 'quicksand' and bury a worker in seconds. Moving grain out of a bin while a worker is in the bin creates a suction that can pull the workers into the grain in seconds.
2. Prohibit walking down grain and similar practices where an employee walks on grain to make it flow.
3. **Provide all employees a body harness with a lifeline, or a boatswain's chair**, and ensure that it is secured prior to the employee entering the bin.
4. Provide an observer stationed outside the bin or silo being entered by an employee. Ensure the observer is equipped to provide assistance and that their only task is to continuously track the employee in the bin. Prohibit workers from entry into bins or silos underneath a bridging condition, or where a build-up of grain products on the sides could fall and bury them.
5. Test the air within a bin or silo prior to entry for the presence of combustible and toxic gases, and to determine if there is sufficient oxygen.
6. Ensure a permit is issued for each instance a worker enters a bin or silo, certifying that the precautions listed above have been implemented.

As an employer of workers facing these hazards, you have the legal obligation to protect and train your workers. OSHA will not tolerate non-compliance with the Grain Handling Facilities standard. OSHA has investigated several cases involving worker entry into grain storage bins where we have found that the employer was aware of the hazards and of OSHA's standards, but failed to train or protect the workers entering the bin. OSHA has aggressively pursued these cases and we will continue to use our enforcement authority to the fullest extent possible. Just in the last 15 months, OSHA has issued several large penalty citations to grain elevator operators for these very hazards.

- On November 23, 2009, OSHA fined Tempel Grain Elevators LLP more than \$1.5 million following the May 29, 2009 death of a teenage worker at the company's Haswell, Colorado grain storage operation. The youth suffocated after being engulfed by grain in one of the facility's bins. The company also exposed three other teenage workers to the cited hazards.
- On May 27, 2010, OSHA fined the South Dakota Wheat Growers Association of Aberdeen, South Dakota more than \$1.6 million following the death of a worker who had suffocated after being engulfed by grain. OSHA's investigation found that five additional workers were also at risk of being engulfed when they were sent into the bin to dig the victim out.
- On August 4, 2010, OSHA fined Cooperative Plus, Inc. in Burlington, Wisconsin \$721,000 after a worker was buried up to his chest and trapped in frozen soybeans. The worker was ultimately rescued after a four hour ordeal.
- On January 24, 2011, OSHA fined Haasbach LLC in Mount Carroll and Hillsdale Elevator Co. in Geneseo and Annawan, Illinois, following the deaths of three workers, including two teenagers. The workers were killed when they suffocated after being engulfed by grain. The fines to both companies totaled \$1,284,000.

If any employee dies in a grain storage facility, in addition to any civil penalties proposed, OSHA will consider referring the incident to the Department of Justice for criminal prosecution pursuant to the criminal provisions of the Occupational Safety and Health Act of 1970.

I am calling on you today to prevent these needless deaths. OSHA State Consultation Programs are available to assist you in complying with OSHA standards. If you have further questions, please contact your local OSHA Area or State Plan Office or your State Consultation Program. More information is available at www.osha.gov.

This program contains the required practices and procedures to protect employees from the hazards of entry into grain storage structures. It applies to employee entry into bins, silos, tanks, and other grain storage structures such as flats and all grain bins regardless of the diameter and height. All procedures in this program must be followed as described.

The term "grain" includes raw and processed grain and grain products.

A confined space permit must be issued for entering bins, silos, tanks, and other grain storage structures (flats), with the following **Exceptions**:

- *The location manager (or Designate) is present during the entire operation .*
- *Entry into a flat storage structure through unrestricted ground level openings in which there are no toxicity, flammability, oxygen-deficiency, or other atmospheric hazards.*

1. **POTENTIAL HAZARDS**

Employees could be exposed to the following hazards:

Engulfment. Such as being buried or trapped in grain, or other flowable material.

Atmospheric hazards.

NOTE: In this facility bins are to be Vented before Entry. This facility handles DRY GRAIN, no moisture/quality problems have been noted. If Problems, be aware of:

Oxygen deficiency. A concentration of oxygen in the atmosphere equal to or less than 19.5% by volume.

Oxygen enriched. A concentration of oxygen in the atmosphere equal to or greater than 23.5%

Presence of explosive/flammable gases. Equal to or greater than 10% of the lower flammable limit (LFL).

Presence of toxic gases. Equal to or more than 10 ppm hydrogen sulfide measured as an 8-hr time-weighted average. Equal to or more than .3 ppm Phosphine measured as an 8-hr time weighted average. If the presence of other toxic contaminants is suspected, specific monitoring programs must be developed.

Mechanical hazards. Such as rotating augers or other moving parts.

Entrapment. In spaces with inwardly converging walls or by a floor which slopes downward and tapers to a smaller cross-section or spout.

CONFINED SPACE ENTRY

CONFINED SPACE PROCEDURE

A confined space entry permit system will be followed to assure that no injuries or fatalities occur. No employee is to enter a permit required confined space without a permit. These confined spaces at Stan's would include any bins, the feed mill mixer or under the truck scale. When a bin entry permit is requested, the manager will inspect the work area to determine if the proper preparations have been made to assure a safe entry. After all items on the permit checklist have been satisfied, the permit will be signed and issued to the employee making entry into the confined space. The following preparations are to be made before the permit is issued.

- * The confined space shall be checked from outside to determine if material is hung up or bridged. Never enter a confined space from below hung-up or bridged material. If possible, dislodge/breakup hung up or bridged materials from outside the confined space. Bins must be empty or no entry will be permitted.
- * All mechanical equipment associated with the confined space like conveyors, mixers, slide gates, and other devices must be shut down and locked out.
- * A standby person is to remain on the outside of the confined space and be in constant visual contact or speech contact with the workers inside. The standby person should have no other duties but to serve as standby and know who to notify in an emergency. Standby personnel shall not enter a confined space until help arrives, and then only with proper protective equipment and life lines.
- * The communication method or system shall be tested before entry.
- * To prevent equipment failure, all equipment and tools that are to be used inside the confined space shall be inspected thoroughly prior to use.
- * Portable electrical tools and lighting must be determined suitable for the environment before use.

CONFINED SPACE PROCEDURE (continued)

- * With top entry, if tools are required while working inside the confined space, they should be lowered in first and come out last using a separate line.

- * Ensure that rescue and standby personnel are adequately trained to act in an emergency and that someone on the work shift is available to administer first aid and CPR.

CONFINED SPACE ENTRY PERMIT

Location of Confined Space: _____
 Purpose of entry: _____
 Date of entry: _____ Time: _____ Duration: _____
 Person(s) making entry: _____
 Observer Attendant: _____
 Rescue/Emerg. Service: _____
 Phone: _____

PROCEDURE :	Yes	N/A
1. All conveying equipment is locked out and tagged.		
2. Is Grain in good condition?, If in poor Condition		
a) Is there Bridged or Hanging Grain		
b) Ventilation (natural or forced air) provided before and during entry, or		
c) Dust masks provided.		
d) Gases suspected, ventilation (natural or forced-air) provided before and during entry, or		
e) Rotting Grain, Fumigation		
3. Body harness and lifeline, or boatswain's chair and lifeline provided.		
4. Person performing entry has been (check all 3):		
a) instructed on bin entry hazards, and		
b) trained on safety equipment operation, and		
c) trained on use of respiratory protection (if provided).		
5. Observer has been (check all 3):		
a) provided with a means of communicating with the person entering bin (voice, signal line, sight, walkie-talkie, etc.), and		
b) trained in rescue procedures, AND		
c) informed how to get emergency help.		
6. Rescue equipment available.		

Not to be signed unless every line has been marked.

Signature of manager or supervisor: _____

Signatures of all employees present: _____

STAN'S
Alpena, SD



**HOT WORK
PROCEDURE**

HOT WORK PROCEDURE

Metal cutting with a cutting torch and welding with an electric arc welder are the cause of many fires and explosions in industrial operations resulting in loss of property and life.

This “Hot Work Permit” system is designed to assure that the proper steps are taken to prevent these losses when metal cutting or welding is required.

1. If the equipment part can be removed from the plant for cutting or welding, then it should be removed and hot work not done inside.
2. If welding or cutting must be performed inside the plant, then the area must be inspected by the manager or person in authority to determine the precautions and preparations to be taken before granting the permit.
3. All equipment should be shut down 60 minutes before welding starts.
4. After the proper precautions have been taken, the area should be re-inspected by the manager or person of authority and the permit issued to the welder.
5. All welding operations should cease at least 3 hours before closing time.
6. A fire watch should be posted during and for 30 minutes following the welding activities and the area re-inspected every 30 minutes for 2 hours.
7. A final inspection of the area should be made at closing time.
8. The permit should be signed again by the manager or person of authority confirming the final check-up.

HOT WORK PERMIT

All temporary operations involving open flames or producing heat and/or sparks require a Hot Work Permit. This includes, but is not limited to, Brazing, Cutting, Grinding, Soldering, Thawing, and Welding.

INSTRUCTIONS FOR FIRE SAFETY SUPERVISOR

1. Verify precautions listed at right (or do not proceed with the work).
2. Complete page 1 and retain for job files.
3. Post page 2 in vicinity of hot work.

DATE _____ JOB NO. _____

LOCATION/BUILDING & FLOOR (Be Specific) _____

DESCRIPTION OF WORK BEING PERFORMED _____

NAME OF PERSON DOING HOT WORK _____

The above location has been examined, the precautions checked on the Hot Work Checklist have been taken to prevent fire, and permission is authorized for this work.

SIGNED: _____
(Permit Authorizing Individual)

SIGNED: _____
(Person doing Hot Work)

SIGNED: _____
(Fire Watch)

TIME STARTED: Date: _____ Time: _____ AM/PM

Date: _____ Time: _____ AM/PM

FIRE WATCH SIGNOFF

Work area and all adjacent areas to which sparks and heat might have spread were inspected during the fire watch period and were found fire safe.

Signed: _____

FINAL CHECKUP (minimum 30 minutes after Hot Work)

Work area was monitored for _____ hour(s) following Hot Work and found fire safe.

Signed: _____

FILL OUT EMERGENCY INFORMATION ON BACK OF Page 2.

HOT WORK CHECKLIST

- Sprinklers and hose streams in service/operable.
- Hot Work Equipment in good condition (e.g., power source, welding leads, torches, etc.)
- Multi-purpose fire extinguisher and/or water pump can.

REQUIREMENTS WITHIN 35 FEET OF WORK

- Dust, Lint, Debris, Flammable Liquids and oily deposits removed; floors swept clean.
- Explosive atmosphere in area eliminated.
- Combustible floors (e.g., wood, tile, carpeting) wet down, covered with damp sand or fire blankets.
- Remove flammable and combustible material where possible. Otherwise protect with fire blankets, guards, or metal shields.
- All wall and floor openings covered.
- Walkways protected beneath hot work.

WORK ON WALLS OR CEILINGS

- Combustibles moved away from other side of wall.

WORK IN CONFINED SPACES

- Confined space cleaned of all combustibles (example: grease, oil, flammable vapors).
- Containers purged of flammable liquids/vapors.
- Follow confined space guidelines.

FIRE WATCH/HOT WORK AREA MONITORING

- Fire watch will be provided during and for 30 minutes after work, including any coffee or lunch breaks.
- Fire watch is supplied with an extinguisher, and/or water pump can, also making use of other extinguishers located throughout work area.
- Fire watch is trained in use of this equipment and familiar with location of sounding alarm.
- Fire watch may be required for opposite side of walls, above, and below floors and ceilings.

OTHER PRECAUTIONS TAKEN

WARNING!

HOT WORK IN PROGRESS WATCH FOR FIRE!

IN CASE OF AN EMERGENCY:

CALL: _____

AT:

WARNING!

STAN'S
Alpena, SD

LOCKOUT-TAGOUT



LOCKOUT-TAGOUT

THE LOCKOUT PROCEDURE

1. Notify all affected employees that a Lockout-Tagout is going to be utilized and give the reason for the action.
2. The employee performing the Lockout should then refer to the Lockout Procedure Form located in this book.
3. If the machinery is running, it should be shut down by normal operating means such as a stop button or switch.
4. The source of power to the equipment (electrical, pneumatic, hydraulic, or steam) should then be located and properly locked out of service with a key padlock and tagged.
5. The padlock used for this action must be an individually assigned lock that will only be used by the person assigned to carry out the repair or cleaning. The key for the assigned lock must be carried only by this assigned person (in pocket).
6. If more than one person is assigned to work on the same machine at the same time, each must have his/her own lock and key to de-energize the equipment power source.
7. After the machinery is locked out, any force of pressure should be relieved and/or blocked
8. After lockout, the equipment power should be tested by activating the start button or switch to be sure the equipment will not operate. The operating control should then be returned to the off position so that no unwanted startup will occur when power is returned after repairs have been completed.
9. The equipment is now locked out and maintenance or cleaning may begin.

START-UP PROCEDURE

1. After completion of the job, check the machinery and the area around the machine to be sure that any tools have been removed and guards have been replaced over the moving parts and that no one is in danger.
2. After testing has been completed, the guards have been replaced, and no one is in danger, the person performing the work can remove the lock from the power source.
3. After all work has been completed by all persons performing work and all locks have been removed, notify employees working in the area that maintenance has been completed and startup can proceed.

NO ONE is allowed in either of the shop bays at any time except AUTHORIZED SHOP PERSONNEL.

LOCKOUT PROCEDURE FORM

MACHINE: Vehicles (WHEN MOVING PARTS SUCH AS FANS OR BELTS)

LOCATION: Shop

LOCATION OF LOCKOUT DEVICES:

- 1. Ignition
(other hazards to consider during servicing)**
- 2. Battery**

- 3. Air**

- 4. Coolant systems**

PROCEDURE FOR LOCKING OUT THIS MACHINE:

When working on vehicles in the shop that involve moving parts such as fans or belts – the ignition key is placed in the mechanic's pocket. When a major overhaul is done, the battery cable is disconnected to prevent unwanted startup.

PROCEDURE FOR START-UP :

When work is completed on the vehicle and everyone is clear of the immediate area, the key is removed from mechanics pocket and used to safely start the vehicle.

LOCKOUT PROCEDURE FORM

MACHINE: Roller Mills, Ingredient Motors for legs, Surge Motor, Mixer Motor

LOCATION: Feed Mill

LOCATION OF LOCKOUT DEVICES:

1. Electrical Room

2.

3.

4.

PROCEDURE FOR LOCKING OUT THIS MACHINE:

Shut off at the breaker and use lockout lock in the electrical room. Person performing work on machine keeps the key in their pocket. Test to see if it starts to make sure the correct switch is locked out before beginning any work.

PROCEDURE FOR START-UP:

When work is completed and everyone is clear of the immediate area, the person performing the work takes the key out of his pocket and removes the lock and turns the breaker back on.

LOCKOUT PROCEDURE FORM

MACHINE: Bin Sweeps

LOCATION: Feed Mill

LOCATION OF LOCKOUT DEVICES:

1. On box on post outside of each bin
- 2.
- 3.
- 4.

PROCEDURE FOR LOCKING OUT THIS MACHINE:

Shut off and use lockout lock on the sweep switch on the bin. Person performing work on machine keeps the key in their pocket. Test to see if it starts to make sure the correct switch is locked out before beginning any work.

PROCEDURE FOR START-UP

When work is completed and everyone is clear of the immediate area, the person performing the work takes the key out of his pocket and removes the lock and turns the switch back on.

STAN'S
Alpena, SD



**HAZARD
COMMUNICATION
PROGRAM**

HAZARD COMMUNICATION STANDARD

The Hazard Communication Standard (HCS) is an O.S.H.A. regulation. Its purpose is to assure that employers and their employees are aware of the products they use in the workplace that contain hazardous substances. The HCS regulation requires that all employers have:

1. A program in writing.
2. A listing of hazardous chemicals used in the workplace.
3. Proper labeling of hazardous chemicals.
4. A Material Safety Data Sheet (MSDS) on file for each hazardous chemical in the work place
5. A company training program to inform all employees on the proper handling and use of these products. Training must be provided when an employee is first assigned to a job task involving hazardous chemicals and when a new hazardous chemical is introduced into the workplace. This written Hazard Communication Program and the material safety data sheets will be located in the facility office and available to all employees during regular working hours.

This program is our company's best attempt to comply with the regulation. The O.S.H.A. Hazard Communication Program requires manufacturers and importers to evaluate chemicals produced by them to determine their hazards. We will rely on the manufacturers to identify hazards of chemicals at this facility

PURPOSE OF OUR COMPANY'S HAZARD COMMUNICATION PROGRAM

As a part of our company's policy to provide a safe workplace free of recognized hazards, we are implementing the following written Hazard Communication Program to inform employees of the safety and health hazards associated with chemical products used at our facility. This policy conforms to the requirements of the Occupational Safety and Health Administration's Hazard Communication Standard as published in the Code of Federal Regulations at 29 CFR Part 1910.1200.

This Hazard Communication Program and associated procedures are intended to ensure that:

- * All hazardous chemicals are identified and labeled properly before being used in the workplace.
- * Material safety data sheets for hazardous chemicals are maintained and readily are available to employees working with those chemicals.
- * Employees working with hazardous chemicals are instructed properly about the hazards of those chemicals, how to work safely with them, and what special equipment, if any, is required.

Employees should contact their supervisor immediately if they have any questions regarding the safe handling of any chemicals.

(Managers signature)

HAZARD COMMUNICATION TRAINING

Our Hazard Communication Training will include these elements:

1. We will cover the requirements of the Hazard Communication Program and this written program.
2. We will discuss the hazardous chemical properties including visual appearance and odor and methods that can be used to detect the presence or release of these hazardous chemicals.
3. The physical and health hazards associated with potential exposure to workplace chemicals.
4. Our procedures to protect against hazards, including personal protective equipment, work safety practices, and emergency procedures.
5. Our hazardous chemical spill and leak procedures.
6. Where our material safety data sheets are located, how to understand their content, and how employees may obtain them and use the proper hazard information.

Our safety and training coordinator will monitor and maintain records of employee training and advise the facility manager of training needs.

HAZARDOUS MATERIAL LABELING

All of the products used by our company are purchased in the appropriate containers with proper labeling. These labels contain information about the product and are necessary to its safe use. These labels will not be removed or intentionally damaged. Materials should be stored or stacked so that labels are visible. If a package becomes damaged and the contents must be placed in a new container, take care that the information on the old label is packed on the new container. Never put a chemical or material in an unmarked container except for immediate clean up of a spill. Spilled materials that are placed in containers are to be labeled as soon as the spill is cleaned up. When a replacement label is used, the label must show the identity of the substance, the appropriate hazard warnings such as "Flammable Material" or "Acute and Chronic Health Hazards," and the name and address of the manufacturer or distributor.

MATERIAL SAFETY DATA SHEETS

A Material Safety Data Sheet (MSDS) explains the hazards of a particular material, the safe methods of handling it, and the emergency procedures. We will keep a file of MSDS for each hazardous material to which our employees in our workplace may be exposed.

_____ at this facility is responsible for obtaining and maintaining the Material Safety Data Sheets.

Material Safety Data Sheets prepared by the manufacturer or distributor generally will accompany shipments of chemicals received at our facility or when new health information is obtained. If a MSDS has not been reviewed for a chemical, a request will be made to the supplier to provide one.

Employees are encouraged to review any MSDS at any time they are unsure of the hazardous characteristics of a chemical. Material Safety Data Sheets are maintained in a book located in the facility office and are readily accessible to employees during the working day.

SECTION I - HAZARD IDENTIFICATION

The MSDS will identify the chemical substance by scientific name, and trade name including the name and address of the company that makes the chemical.

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

This section will give the substance's hazardous components, the common names and worker exposure limits.

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

Under "Physical Data", "Physical Characteristics", or "Physical Information", the MSDS will describe a material by its physical state at room temperature and the temperature at which it changes from one state to another. These physical characteristics are identified under the general headings of:

- * **Appearance** indicates a solid, liquid, or gas.
- * **Color** is indicated by some identifying color.

- * **Odor** is usually indicated by comparison to some identifiable odor and the degree of odor as slight, moderate, pungent, etc.
- * **Boiling Point** is that temperature at which a liquid changes to a vapor. A low boiling point indicates a volatile substance and is a warning to keep the chemical well contained at normal temperatures, or the substance may cause a breathing hazard.
- * **Melting Point** is the temperature at which a solid changes to a liquid.
- * **Evaporation Rate** is the rate at which the material will evaporate compared with the rate of evaporation of water.
- * **Vapor Pressure** is the pressure exerted by a saturated vapor above its own liquid in a closed container.
- * **Vapor Density** is whether a gas is heavier or lighter than air. If the vapor density is greater than one, it will sink to the floor. If it is less than one, it will rise.
- * **Specific Gravity** is whether a liquid is heavier or lighter than water and will rise or sink in water. Specific gravity of water equals one.
- * **Solubility** is how easily the material will dissolve in water.

SECTION IV - EXPLOSION HAZARD DATA

This Section of the MSDS will indicate its potential for fire, explosion, and reactivity. The information provided in this section is identified under the general headings:

- * **Flash Point** is the temperature at which a liquid gives off a vapor that will form, with air, an ignitable mixture. The flash point of kerosene is 100 degrees Fahrenheit.
- * **Flammable Limits** is the range of a vapor or gas given as a percent that will burn or explode if an ignition source is present.
- * **Extinguishing Media** is the material that can be used to extinguish a fire such as carbon dioxide (CO₂), water, or dry chemicals.

- * **Special Fire Fighting Procedures** would give special instructions such as "Do not use direct stream" when fighting a fire involved with the material.
- * **Unusual Fire and Explosion Hazards** will identify any special conditions, which could cause a fire or explosion.
- * **Reactivity** will indicate the tendency of a substance to undergo a chemical change and whether the substance is "stable" or "unstable."

SECTION V - REACTIVITY DATA

This explains what could happen if this chemical is combined with other chemicals, or with water or air.

SECTION VI - HEALTH HAZARDS

Under this section of the MSDS, information is provided on how the chemical can affect your health. Also listed are the types of exposures and the effects of such exposures. "Routes of Entry" are those ways that the chemical can be taken into the body and the effect the chemical will have on your health. This section also indicates the symptoms of exposure and the emergency and first aid procedure. The routes of entry are commonly known as inhalation, skin or eye contact, and ingestion. The purpose of the "Routes of Entry" are to provide information so that you can choose the proper protective gear to block the routes of entry. Protective clothing includes goggles, gloves, face masks, rubber boots and respirators.

The emergency and first aid information will tell you what action must be taken in case of a contamination to the body. These actions should be learned and remembered ahead of time since immediate action is sometimes called for.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Information contained in this section includes the steps to be taken in case of a chemical spill or leak. Different materials will react differently under certain conditions. Some chemicals will react in a hazardous way if they get wet; others will react with combustible materials, and others with acids. Some conditions may produce a vigorous, out-of-control reaction. This section should indicate the proper waste disposal methods and the personal protective procedure needed for handling and storage.

SECTION VIII - CONTROL MEASURES

This part of the MSDS describes the engineering controls (modifications to the facility) and personal protective equipment (gloves, eye protection, etc.) that should be used to prevent over-exposure. Also any specific work practices that are necessary, things like taking a shower after working with a substance, or washing work clothes at work to keep your risk of exposure low.

Material Name	Location
Paints and Sealants	
Ace Acrylic Sealant	shop
Cat Yellow Paint	shop
Permatex Heavy Duty Rubberized Undercoating	shop
Permatex SA-9 Battery Protector & Sealer	shop
Liquid Wrench Silicone Spray	shop
Rust-oleum Clean Metal Primer	shop
Rust-oleum High Heat	shop
Rust-oleum Painters Touch	shop
Lubricants	
CRC Power Lube - Multi Purpose Lubricant	shop
CRC White Lithium Grease	shop
Liquid Wrench Chain Lube	shop
LPS Greaseless Lubricant 1	shop
Lubriplate No 105 Motor Assembly Grease	shop
Marvel Air Tool Oil	shop
Permatex Anti-Sieze Lubricant	shop
Permatex Dielectric Tune-Up Grease	shop
Cleaners	
Oatey Cleaner	shop
OMNI Pak Master Blend EZ Touch	shop
Permatex SA-8 Battery Cleaner	shop
Aluma Pro Cleaner/Brightener	washbay
MC-200 Soap	washbay
Polished Aluminum Cleaner	washbay
Misc	
Permatex High Tack Gasket Sealant	shop
Permatex Sensor Safe Blue RTV Silicone Gasket Maker	shop

Material Safety Data Sheet

PRODUCT NAME: Exact Color [100% Acrylic, High Performance Elastomeric Sealant]
PRODUCT Description: 1) Tintable caulk base (7.75 fluid oz) in caulk cartridge*, 2) plus, separately packaged liquid thickening activator (12.5 ml)**

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: Sashco, Inc.
ADDRESS: 10300 E. 107th Place, Brighton, Colorado 80601
PHONE: 1-303-286-7271
EMERGENCY PHONE: 1-800-535-5053
INFORMATION PHONE: 1-800-289-7290
DATE REVISED: 9-16-10
NAME OF PREPARER: Wayne Summons
REASON FOR REVISION: Annual Review
CODE IDENTIFICATION: EXC
PRODUCT IDENTIFICATION: Exact Color [Tintable 100% Acrylic Latex, High Performance Sealant]

Health	HMIS Ratings		PPE
	Flammability	Reactivity	
1	0	0	B

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	CAS#	WT.%	TLV	PEL	VAPOR PRESSURE
<i>For the tintable caulk base ></i> Ethylene Glycol*	000107-21-1	1.0-3.5	50PPM	50PPM	0.12 mmHg @ 25C
<i>For the thickening activator ></i> Amino Methyl Propanol**	124-68-5	25-35	Not Establ	Not Establ	<1 mm Hg @ 25C

* The Threshold Limit Value (TLV) is the time weighted average (TWA) to which it is believed that most workers may be exposed 8-10 hours per day, 40 hours per week, without adverse health effects.
This chemical is subject to the reporting requirements of section 313 of SARA Title III.

**Amino Methyl Propanol is the active component of the thickening activator, along with water. This active ingredient is cleared for use in indirect contact applications related to food.

SECTION III - PHYSICAL DATA

SPECIFIC GRAVITY (H₂O=1): 1.01 – 1.06 (caulk base), 0.983 (thickening activator)
PERCENT VOLATILE BY VOLUME (%): 38-42% [Mostly water, less than 1.5% VOC by weight]
EVAPORATION RATE (WATER =1): >1
SOLUBILITY IN WATER (cured film): Negligible [Both components are water soluble otherwise]
APPEARANCE AND ODOR: Semi-fluid paste after being thickened; mild, sweet odor
BOILING POINT (F): N/A
VAPOR PRESSURE (mm Hg.): N/A
VAPOR DENSITY (AIR=1): N/A
pH of the thickening activator: 12.45 – 12.75
pH of the caulk base: 6.5 – 7.0
pH of combined caulk base and activator: 8.6 – 9.2

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (F): N/A

FLAMMABLE LIMITS: N/A
EXTINGUISHING MEDIA: Normal procedures
SPECIAL FIRE FIGHTING PROCEDURES: Direct water spray may cause frothing.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None known

===== SECTION V - HEALTH HAZARD DATA =====

THRESHOLD LIMIT VALUE: N/A
EFFECTS OF OVEREXPOSURE: None known for the liquid caulk base
EFFECTS OF OVEREXPOSURE: Skin & eye irritation/burns with thickening activator
EMERGENCY AND FIRST AID PROCEDURES:
Caulk base: If product has been ingested, administer two glasses of water and contact a physician. If material comes in contact with eyes, rinse thoroughly for at least 20 minutes. If irritation persists, contact a physician.
Thickening Activator: 1) Skin: immediately wash with large amount of water. Launder clothing wet with activator. 2) Eyes: immediately flush with large amount of water for 15 minutes. See a physician. 3) Ingestion: neutralize swallowed activator with dilute vinegar. Do not induce vomiting.

===== SECTION VI - REACTIVITY DATA =====

STABILITY: Stable
INCOMPATIBILITY: None known
HAZARDOUS DECOMPOSITION PRODUCTS: None known
HAZARDOUS POLYMERIZATION: Will not occur

===== SECTION VII - SPILL OR LEAK PROCEDURES =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Wipe or scrape up and dispose. No special precautions are required.

WASTE DISPOSAL METHOD:
Dispose in a sanitary landfill or incinerate according to local and federal regulations.

===== SECTION VIII - SPECIAL PROTECTION INFORMATION =====

RESPIRATORY PROTECTION: None needed
VENTILATION: Local exhaust, general
PROTECTIVE GLOVES: Rubber gloves recommended when handling the activator.
EYE PROTECTION: Safety glasses recommended when handling the activator.
OTHER PROTECTIVE EQUIPMENT: None required

===== SECTION IX - SPECIAL PRECAUTIONS =====

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store at room temp. Keep from freezing.
OTHER PRECAUTIONS: Keep away from children. Wash hands with soap and water after handling the colorant and thickener.
SHIPPING INFORMATION: Exact Color is not regulated under and DOT classification due to posing little or no hazard.

===== SECTION X - DISCLAIMER =====

DISCLAIMER:
The information contained herein is based on data available at the time of preparation of this data sheet and which Sashco Inc. believes to be reliable. However, no warranty is expressed or implied regarding the accuracy of this data. Sashco, Inc. shall not be responsible for the use of this information or of any product, method or apparatus mentioned and you must make your own determination of its suitability and completeness for your own use, for the protection of the environment and the health and safety of your employees and users of this material.



Material Safety Data Sheet

Revision Date 16-Apr-2008

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product code 87185
Product name Caterpillar Yellow Paint
Recommended Use Coating
Supplier Lawson Products, Inc.
1666 East Touhy Avenue
Des Plaines, IL 60018
(847)-827-9666
Emergency telephone number (888) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview

Extremely flammable. Irritating to eyes.

Color Yellow

Odor Solvent

Form Aerosol

Aggravated Medical Conditions None Known.

Principal Routes of Exposure Eyes. Inhalation.

Potential health effects

Eyes Exposure to vapors will cause the following effects. Irritation. Swelling.

Skin Exposure to vapors will cause the following effects. Skin Irritation.

Inhalation Exposure to vapors will cause the following effects. Irritation of the nose or throat. Central nervous system effects. Dizziness. Drowsiness. Headaches. Fatigue. Nausea. Extreme overexposure may cause. Kidney damage. Lung damage. Liver damage. Cardiac abnormalities. Damage to blood. Misuse by deliberately concentrating vapors and inhaling contents can be harmful or fatal.

Ingestion May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %
Acetone	67-64-1	15-40
Propane	74-98-6	10-30
Toluene	108-88-3	7-13
N-Butane	106-97-8	7-13
Methyl Propyl Ketone	107-87-9	1-5
PM Acetate	108-65-6	1-5
Ethylene glycol monopropyl ether	2807-30-9	1-5

4. FIRST AID MEASURES

Eye contact	Remove to fresh air. Rinse thoroughly with plenty of water, also under the eyelids. Seek medical attention if irritation persists.
Skin contact	Wash area thoroughly with soap and water. Remove and wash contaminated clothing before re-use.
Ingestion	Call a physician or Poison Control Center immediately.
Inhalation	Move to fresh air. If symptoms persist, call a physician.

5. FIRE FIGHTING MEASURES

Flash point °C	-19
Flash point °F	-2
Method	No information available
Autoignition temperature °C	Product is not self-igniting
Autoignition temperature °F	
Flammability Limits (% in Air)	
Upper	13
Lower	1.2

Suitable extinguishing media
Carbon dioxide (CO₂). Water spray. Alcohol-resistant foam . Sand.

Special protective equipment for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

Fire and Explosion Hazards

Aerosol containers may vent, rupture or burst when heated to temperatures above 120°F. Vapors may form explosive mixture in air between upper and lower explosive limits which can be ignited by many sources, such as pilot lights, open flames, electrical motors and switches.

Sensitivity to shock

No information available.

Sensitivity to static discharge

No information available.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up

Personnel should wear appropriate protective equipment. Follow all precautions for handling. Please refer to appropriate sections of MSDS for additional information. Evacuate area of unprotected and unnecessary personnel. Do not allow product to reach sewage system, soil, surface or ground water, or any water course. Notify proper authorities if entry occurs. Do not flush with water or aqueous cleansing agents. Use diluted caustic solution. Soak up with inert absorbent material. Dispose of absorbent in accordance with local, state and federal regulations.

7. HANDLING AND STORAGE

Handling

Do not spray on a naked flame or any other incandescent material. Do not smoke. Protect against electrostatic charges.

Storage

Small pressurized containers of flammable product may be stored in areas suitable for ordinary combustibles with respect to construction, drainage, control of ignition sources, and ventilation except that they should not be stored in basements. Keep away from heat. Keep away from direct sunlight. Do not freeze.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure limits**

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Acetone	1000 ppm 2400 mg/m ³	-	500 ppm	750 ppm
Propane	1000 ppm 1800 mg/m ³	-	1000 ppm	-
Toluene	200 ppm	300 ppm	20 ppm	-
N-Butane	-	-	1000 ppm	-
Methyl Propyl Ketone	200 ppm 700 mg/m ³	-	-	150 ppm
PM Acetate	-	-	-	-
Ethylene glycol monopropyl ether	-	-	-	-

Ventilation and Environmental Controls

Adequate ventilation should be provided to keep exposure levels below current acceptable exposure limits.

Hygiene measures

Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and immediately after handling the product.

Personal protective equipment**Respiratory protection**

None necessary under normal conditions. Use NIOSH approved respirator if TLV limit is exceeded.

Hand Protection

Chemical resistant gloves. Consult glove manufacturer to determine the proper type for a specific operation.

Eye protection

Tightly fitting safety goggles.

Skin and body protection

None necessary under normal conditions

9. PHYSICAL AND CHEMICAL PROPERTIES

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Aerosol	Color	Yellow
Odor	Solvent	Odor Threshold	5 ppm
pH	Not Applicable	Specific Gravity	0.77-0.90
Vapor pressure	40 PSI	Vapor density	No data available
Evaporation Rate	No data available	Density	No data available
VOC Content	45.6%; 0.46 kg/l; 3.81 lb/gal	Solids content	17.2%
Water solubility	No data available	Partition Coefficient (n-octanol/water)	No data available
MIR value	1.09	Boiling point/range °C	-44
Boiling point/range °F	-47	Melting point/range °C	No data available
Melting point/range °F	No data available	Flash point °C	-19
Flash point °F	-2	Ignition temperature °C	365
Ignition temperature °F	689		

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Conditions to avoid

Do not store in temperatures above 120 degrees F.

Incompatibility

None known.

Hazardous Decomposition Products

None known.

Polymerization

Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Component Information

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rabbit)	LC50 (inhalation, rat)
Acetone 67-64-1	5800 mg/kg	5800 mg/kg	5800 mg/kg
Propane 74-98-6	658 mg/L	658 mg/L	658 mg/L
Toluene 108-88-3	12.5 mg/L 12124 mg/kg 636 mg/kg 8390 mg/kg 26700 ppm	12.5 mg/L 12124 mg/kg 636 mg/kg 8390 mg/kg 26700 ppm	12.5 mg/L 12124 mg/kg 636 mg/kg 8390 mg/kg 26700 ppm
Butane 106-97-8	658 mg/L	658 mg/L	658 mg/L

Chemical Name	LD50 (oral, rat)	LD50 (dental, rat/rabbit)	LC50 (inhalation, rat)
Methyl Propyl Ketone 107-87-9	1600 mg/kg 6500 mg/kg	1600 mg/kg 6500 mg/kg	1600 mg/kg 6500 mg/kg
PM Acetate 108-65-6	8532 mg/kg 5000 mg/kg	8532 mg/kg 5000 mg/kg	8532 mg/kg 5000 mg/kg
Ethylene glycol monopropyl ether 2807-30-9	3089 mg/kg 960 µL/kg	3089 mg/kg 960 µL/kg	3089 mg/kg 960 µL/kg

Synergistic Products

None known

Potential health effects

Sensitization

None known

Chronic toxicity

None known

Mutagenic effects

None known

Teratogenic effects

None known

Reproductive toxicity

None known

Target Organ Effects

Reports have associated prolonged overexposure to solvents with permanent brain and nervous system damage. Prolonged or repeated occupational overexposure may affect the following: Kidney. Lungs. Liver. Heart. Blood.

Carcinogenic effects

See table below

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA PEL - Carcinogens
Acetone	A4 - Not Classifiable as a Human Carcinogen	Not Listed	Not Listed	Not Listed	Not Listed
Propane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Toluene	A4 - Not Classifiable as a Human Carcinogen	Not Listed	Not Listed	Not Listed	Not Listed
N-Butane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Methyl Propyl Ketone	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
PM Acetate	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Ethylene glycol monopropyl ether	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

etone

Microtox Data*Photobacterium phosphoreum* EC50=14500 mg/L (15 min)**Water Flea Data***water flea* EC50=0.0039 mg/L (48 h)*Daphnia magna* EC50=12600 mg/L (48 h)*water flea* EC50=12700 mg/L (48 h)

Toluene

Microtox Data*Photobacterium phosphoreum* EC50=19.7 mg/L (30 min)**Water Flea Data***Daphnia magna* EC50=11.3 mg/L (48 h)*water flea* EC50=11.3 mg/L (48 h)*water flea* EC50=310 mg/L (48 h)

PM Acetate

Water Flea Data*Daphnia magna* EC50>500 mg/L (48 h)**13. DISPOSAL CONSIDERATIONS****Disposal Information**

Dispose in accordance with federal, state, and local regulations. Do not puncture or incinerate. Please recycle empty container whenever possible.

Information from residues / unused products

Information available

14. TRANSPORT INFORMATION**DOT**

Consumer commodity, ORM-D

TDG

UN1950 AEROSOLS, flammable, 2.1

IMDG/IMO

UN1950 Aerosols, flammable, 2.1

IATA

UN1950 Aerosols, flammable, 2.1

MEX

UN1950 Aerosols, flammable, 2.1

15. REGULATORY INFORMATION

15. REGULATORY INFORMATION

Chemical Name	US EPA OSHA PPE/Labeling/Reporting
Toluene	Listed
Ethylene glycol monopropyl ether	Listed

Chemical Name	New Jersey R1K	Pennsylvania R1K	California Prop 65
Acetone	Listed	Listed	
Propane	Listed	Listed	Not Listed
Toluene	Listed	Listed	Developmental
N-Butane	Not Listed	Listed	Not Listed
Methyl Propyl Ketone	Not Listed	Listed	Not Listed
PM Acetate	Not Listed	Not Listed	Not Listed
Ethylene glycol monopropyl ether	Not Listed	Listed	Not Listed

Chemical Name	ENECS	DSL	NDSL	TSCA
Acetone	X	X	-	X
Propane	X	X	-	X
Toluene	X	X	-	X
N-Butane	X	X	-	X
Methyl Propyl Ketone	X	X	-	X
PM Acetate	X	X	-	X
Ethylene glycol monopropyl ether	X	X	-	X

CPRC

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

16. OTHER INFORMATION

NFPA		HMIS	
Health	1	Health	1
Flammability	4	Flammability	4
Reactivity	3	Physical Hazard	3

Prepared By Michael Katz, Regulatory Affairs Specialist

The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

Permatex, Inc.
 Columbus Blvd.
 Hartford, CT 06106 USA
 Telephone: 1-87-Permatex
 (877) 376-2839
 Emergency: 800-255-3924 (ChemTel)
 International Emergency: +01-813-248-0585

Material Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name: 135EA HEAVY DUTY RUBBERIZED UNDERCOATING 16OZ AE
Item No: 81833
Product Type: Undercoating

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	ACGIH; TLV-TWA	OSHA PEL
WATER 7732-18-5	<50	Not listed	Not listed
CALCIUM CARBONATE 471-34-1	15-25	10 mg/m ³	Not listed
SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPH. 64742-88-7	5-15	Not listed	Not listed
ASPHALT (PETROLEUM) 8052-42-4	<10	0.5 mg/m ³	Not listed
PROPANE 74-98-6	<10	1000 ppm	1000 ppm; 1800 mg/m ³
BENTONITE 1332-58-7	<10	1000 ppm	800 ppm; 1900 mg/m ³
KAOLIN 1332-58-7	<10	2 mg/m ³	15 mg/m ³
METHANOL 67-56-1	<3	200 ppm	200 ppm; 260 mg/m ³

3. HAZARDS IDENTIFICATION

Toxicity: May cause eye, skin and respiratory irritation. Excessive inhalation causes headache, dizziness, nausea, and incoordination. Long term exposure to high concentrations of vapor may cause lung, liver or kidney damage.

Primary Routes of Entry: Eye and skin contact, ingestion, inhalation

Signs and Symptoms of Exposure: Excessive accidental exposure may cause headache, dizziness, nausea and mild respiratory irritation. Overexposure may cause eye and skin redness.

Component	Weight%	NTP	ACGIH Carcinogens	IARC Carcinogen
SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPH. 64742-88-7	5-15	male rat-some evidence, female rat-no evidence, male mice-no evidence, female mice-equivocal evidence		
ASPHALT (PETROLEUM) 8052-42-4	<10		A4 - Not classifiable as a human carcinogen	Group 2B Supplement 7, 1987; Monograph 35, 1985
KAOLIN 1332-58-7	<10		A4-Not classifiable as a human carcinogen	

Aggravated Medical Condition: Persons with preexisting respiratory, liver, kidney, eye or skin diseases may be adversely affected.

4. FIRST AID MEASURES

Inhalation: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

Ingestion: Move to fresh air in case of accidental inhalation of vapours. Oxygen or artificial respiration if needed. Obtain medical attention.

Skin Contact: Wash off with soap and water. If skin irritation persists, call a physician.

Product Name: 135EA HEAVY DUTY RUBBERIZED
UNDERCOATING 16OZ AE

4. FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flash Point °F(C°): <0°F Based on propellant
Recommended Extinguishing Media: Carbon Dioxide, Dry Chemicals, Foam.
Special Fire-Fighting Procedures: Firefighters should wear self-contained breathing apparatus. Keep containers cool. Use equipment or shielding required to protect against bursting or venting of containers. Water spray may be ineffective on flames but should be used to keep fire-exposed containers cool.
Hazardous Products of Combustion: Oxides of carbon
Unusual Fire/Explosion Hazards: Contents under pressure. Exposure to temperatures over 120 degrees F. may cause bursting or venting. Use equipment or shielding to protect personnel from bursting containers.
Lower Explosive Limit: 1.0
Upper Explosive Limit: 36.5

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Eliminate all sources of ignition. Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal.

7. HANDLING AND STORAGE

Storage: Store away from heat, sparks or open flame. Do not store at temperatures above 100°F (38°C). Exposure to high temperatures may cause container to burst.
Handling: Do not use near heat, sparks or open flame. Do not puncture or incinerate container. Vapors may accumulate readily and may ignite explosively. Avoid contact with skin and eyes. Use in a well ventilated area to prevent irritation by vapors. Wash hands before eating and smoking.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Safety glasses.
Skin: Neoprene or nitrile gloves recommended.
Ventilation: General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product.
Respiratory Protection: An approved organic vapor respirator should be worn when exposures are expected to exceed the applicable limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Black liquid
Odor: Solvent
Boiling Point: <0°F to 395°F
pH: Does not apply
Solubility in Water: Nil
Specific Gravity: 0.98
VOV(Wt.%): 28.5%
Vapor Pressure: Not determined
Vapor Density (Air=1): Heavier than air
Evaporation Rate: <1 (butyl acetate =1)

10. STABILITY AND REACTIVITY

Chemical Stability: Stable at normal conditions
Hazardous Polymerization: Will not occur
Incompatibilities: Strong oxidizers
Conditions to Avoid: Keep away from heat, sparks and open flame. - No smoking.
Hazardous Products of Combustion: Oxides of carbon

11. TOXICOLOGICAL INFORMATION

Section 3

12. ECOLOGICAL INFORMATION

No data available

Product Name: 135EA HEAVY DUTY RUBBERIZED
UNDERCOATING 16OZ AE

Item No. 81833

13. DISPOSAL CONSIDERATIONS

Recommended Method of Disposal: Disposal should be made in accordance with federal, state and local regulations. This container may be recycled in aerosol recycling centers. Before offering for recycling, empty the can by using the product according to the label. If recycling is not available, wrap the container and discard in the trash.

US EPA Waste Number: D001 as per 40CFR 261.21

14. TRANSPORTATION INFORMATION

DOT (49CFR 172)

Ground Transport (DOT)

DOT Shipping Name: Consumer Commodity
Hazard Class: ORM-D
UN/ID Number: None

IATA (Air)

Proper Shipping Name: Consumer Commodity (Not more than 1 liter)
Class or Division: Class 9
UN/ID Number: ID 8000

IMDG (Vessel)

Proper Shipping Name: Aerosols, Limited Quantity
Hazard Class: Class 2.1
UN Number: UN 1950

Marine Pollutant: None

15. REGULATORY INFORMATION

SARA 313 Chemicals: The following component(s) is listed as a SARA Section 313 Toxic Chemical.

ETHANOL

California Proposition 65: WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm

TSCA Inventory Status: All components of this product are listed (or exempt) on the EPA TSCA inventory.

16. OTHER INFORMATION

Estimated NFPA Rating: HEALTH 2, FLAMMABILITY 3, REACTIVITY 0.
Estimated HMIS Classification: HEALTH 2, FLAMMABILITY 3, PHYSICAL HAZARD 0
(NFPA is a registered trademark of the National Fire Protection Association)
HMIS is a registered trademark of the National Paint and Coatings Association

Prepared By: Denise Boyd, Manager-Environmental, Health & Safety
Company: Permatex, Inc. 10 Columbus Blvd. Hartford, CT USA 06106
Telephone No.: 1-87-Permatex (877) 376-2839

Revision Date: August 19, 2011
Revision Number: 2

Permatex, Inc.
 Columbus Blvd.
 Hartford, CT 06106 USA
 Telephone: 1-87-Permatex
 (877) 376-2839
 Emergency: 800-255-3924
 International Emergency: +01-813-248-0585

Material Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name: SA9 BATTERY PROTECTOR & SEALER 5 OZ AE
Item No: 80370
Product Type: Aerosol coating

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	ACGIH; TLV-TWA	OSHA PEL
XYLENE 1330-20-7	15-40	100 ppm	100 ppm; 435 mg/m ³
ACETONE 67-64-1	15-40	500 ppm	1000 ppm; 2400 mg/m ³
PROPANE 74-98-6	15-40	1000 ppm	1000 ppm; 1800 mg/m ³
MINERAL OIL 8042-47-5	<10	5 mg/m ³ TWA (oil mist) ACGIH	Not listed
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT 64742-47-8	<10	Not listed	Not listed
ETHYL BENZENE 100-41-4	<5	100 ppm	100 ppm; 435 mg/m ³

3. HAZARDS IDENTIFICATION

Toxicity: Exposure to vapors or mist may result in irritation of the respiratory tract. Long term exposure to high concentrations of vapor may cause lung, liver or kidney damage. May cause eye and skin irritation. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage (sometimes referred to as "solvent" or "painter's syndrome"). Symptoms include fatigue, concentration difficulties, anxiety, depression, rapid mood swings, and short-term memory loss. Deliberately concentrating and inhaling the vapor may be harmful or fatal.

Primary Routes of Entry: Eye and skin contact, ingestion, inhalation

Signs and Symptoms of Exposure: Excessive overexposure may cause giddiness, dizziness, headache, nausea and in extreme cases, unconsciousness and respiratory depression. May cause redness to eyes and irritation to nasal passages.

Component	Weight%	NTP	ACGIH Carcinogens	IARC
XYLENE 1330-20-7	15-40	male rat-no evidence; female rat-no evidence; male mice- no evidence; female mice-no evidence	A4 - Not Classifiable as a Human Carcinogen	Group 3: Monograph 71, 1999; Monograph 47, 1989
ACETONE 67-64-1	15-40	Not known	A4 - Not Classifiable as a Human Carcinogen	
ETHYL BENZENE 100-41-4	<5	male rat-clear evidence; female rat- some evidence; male mice-some evidence; female mice-some evidence	A3 Confirmed animal carcinogen with unknown relevance to humans	Group 2B Monograph 77, 2000

Medical Conditions Recognized as Being Aggravated by Exposure: Heart disease, respiratory disorders, liver and kidney diseases, anemia, rhythm disorders of the heart. Preexisting eye, skin and respiratory disorders may be aggravated by overexposure to this product.

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

Product Name: SA9 BATTERY PROTECTOR &
SEALER 5 OZ AE

4. FIRST AID MEASURES

Inhalation: Move to fresh air in case of accidental inhalation of vapours. Oxygen or artificial respiration if needed. Obtain medical attention.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flash Point °F(C°): <0°F

Recommended Extinguishing Media: Carbon Dioxide, Dry Chemicals, Foam.

Special Fire-Fighting Procedures: Firefighters should wear self-contained breathing apparatus. Keep containers cool. Use equipment or shielding required to protect against bursting or venting of containers. Water spray may be ineffective on flames but should be used to keep fire-exposed containers cool.

Hazardous Products of Combustion: Oxides of carbon, Irritating vapors

Unusual Fire/Explosion Hazards: Contents under pressure Exposure to temperatures over 120 degrees F. may cause bursting or venting Use equipment or shielding to protect personnel from bursting containers

Lower Explosive Limit: 1.0%

Upper Explosive Limit: 12.8%

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Eliminate all sources of ignition. Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal.

7. HANDLING AND STORAGE

Storage: Store away from heat, sparks or open flame. Do not store at temperatures above 100°F (38°C). Exposure to high temperatures may cause container to burst.

Handling: Avoid contact with skin and eyes. Do not inhale vapors. Intentionally concentrating and inhaling the vapor may be harmful or fatal. Use only in a well ventilated area. Extinguish all flames, pilot lights and heaters. Turn off stoves, electric tools and appliances, and other sources of ignition. Vapors may accumulate readily and may ignite explosively. Do not puncture or incinerate container. Wash thoroughly after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Safety glasses.

Skin: Neoprene or nitrile gloves recommended.

Ventilation: General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product.

Respiratory Protection: An approved organic vapor respirator should be worn when exposures are expected to exceed the applicable limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Purple liquid

Odor: Solvent

Boiling Point: >100°F

pH: Does not apply

Solubility in Water: Nil

Specific Gravity: 0.835

VOC(Wt.%): 45%

Vapor Pressure: Not determined

Vapor Density (Air=1): >1

Evaporation Rate: >1 (butyl acetate = 1)

10. STABILITY AND REACTIVITY

Chemical Stability: Stable at normal conditions

Hazardous Polymerization: Will not occur

Incompatibilities: Strong oxidizers

Conditions to Avoid: Heat

Hazardous Products of Combustion: Oxides of carbon, Irritating vapors

Product Name: SA9 BATTERY PROTECTOR & SEALER 5 OZ AE

11. TOXICOLOGICAL INFORMATION

See Section 3

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended Method of Disposal: Disposal should be made in accordance with federal, state and local regulations.. This container may be recycled in aerosol recycling centers. Before offering for recycling, empty the can by using the product according to the label. If recycling is not available, wrap the container and discard in the trash.

US EPA Waste Number: D001 as per 40CFR 261.21

14. TRANSPORTATION INFORMATION

DOT (49CFR 172)

Ground Transport (DOT)

DOT Shipping Name: Consumer Commodity (not more than one liter)
Hazard Class: ORM-D
UN/ID Number: None

IATA

Proper Shipping Name: Consumer Commodity (Not more than 1 liter)
Class or Division: Class 9
UN/ID Number: ID 8000

IMDG

Proper Shipping: Aerosols, Limited Quantity
Hazard Class: Class 2.1
UN Number: UN 1950
Marine Pollutant: None

15. REGULATORY INFORMATION

SARA 313 Chemicals: The following component(s) is listed as a SARA Section 313 Toxic Chemical.

XYLENE, ETHYL BENZENE

California Proposition 65: WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm

TSCA Inventory Status: All components of this product are listed (or exempt) on the EPA TSCA inventory.

16. OTHER INFORMATION

Estimated NFPA Rating: HEALTH 2, FLAMMABILITY 4, REACTIVITY 0.
Estimated HMIS Classification: HEALTH 2, FLAMMABILITY 4, PHYSICAL HAZARD 0
NFPA is a registered trademark of the National Fire Protection Assn.
HMIS is a registered trademark of the National Paint and Coatings Assn.

Prepared By: Denise Boyd, Manager-Environmental, Health & Safety
Company: Permatex, Inc. 10 Columbus Blvd. Hartford, CT USA 06106

Revision Date: May 27, 2010
Revision Number: 5

Telephone No.: 1-87-Permatex (877) 376-2839

MSDS - Material Safety Data Sheet**Product Name: LIQUID WRENCH HEAVY DUTY SILICONE SPRAY
LUBRICANT**

MSDS No.: M906

I. Basic Information

Manufacturer: RADIATOR SPECIALTY COMPANY
Address: 600 RADIATOR ROAD
City, ST Zip: INDIAN TRAIL, NC 28079
Country:

Contact: Robert Geer
Information Telephone Number: 704-684-1811
Emergency Contact: Rocky Mountain Poison Control Center
Emergency Telephone Number: 303-623-5716
Emergency Restrictions:

Product Name: LIQUID WRENCH HEAVY DUTY SILICONE SPRAY LUBRICANT
MSDS No.: M906

Issue Date: 11/04/2009

Supersedes Date: Not Available

II. Hazard Identification**EMERGENCY OVERVIEW**

Flammable. Harmful or fatal if swallowed. Eye and Skin Irritant. Contents under Pressure.

Level 3 Aerosol

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects**Route(s) of Entry:**

Absorption, Eye, Inhalation, and Ingestion.

Health Hazards (Acute and Chronic):

See Signs and Symptoms below

Signs and Symptoms:

Eye Contact: Irritant. Prolonged contact may cause conjunctivitis.
 Skin Contact: Irritant. Defatting of tissue, dermatitis may occur.
 Inhalation: Irritant to mucous membranes. Repeated exposure may cause narcosis.
 Ingestion: HARMFUL OR FATAL IF SWALLOWED.

Medical Conditions Generally Aggravated by Exposure:

N/D

Other Health Warnings:

Vomiting and subsequent aspiration into the lungs may lead to chemical pneumonia and pulmonary edema which is a potentially fatal condition.

Potential Environmental Effects

Not Available

III. Composition/Information on Ingredients

Chemical Name	CAS No.	% Range	Trade Secret
1,2,4-Trimethylbenzene	95-63-6	3.0 - 7.0	
Aliphatic Hydrocarbon Solvent	8052-41-3	40.0 - 70.0	
Carbon dioxide	124-38-9	3.0 - 4.0	
Dimethyl Polysiloxane	63148-62-9	3.0 - 7.0	
Ethylbenzene	100-41-4	0.1 - 1.0	
Hydrocarbon Fluid	64742-47-8	10.0 - 30.0	
Low Odor Base Solvent	Proprietary	10.0 - 30.0	
Mesitylene	108-67-8	3.0 - 7.0	
Naphthenic Petroleum Distillate	64742-52-5	3.0 - 7.0	

MSDS - Material Safety Data Sheet**Product Name: LIQUID WRENCH HEAVY DUTY SILICONE SPRAY
LUBRICANT**

MSDS No.: M906

Xylene (mixed isomers)

1330-20-7

1.0 - 5.0

II. First Aid Measures:**Emergency and First Aid Procedures:**

Eye Contact: Flush eyes with clean water for 15 minutes while lifting eyelids. Get prompt medical attention.
Skin Contact: Wash with soap and water thoroughly. If adverse effects persist, get prompt medical attention. Launder contaminated clothing before reuse.
Inhalation: Remove to fresh air. If breathing becomes difficult give oxygen and get prompt medical attention. If breathing stops, give artificial respiration and get prompt medical attention.
Ingestion: DO NOT INDUCE VOMITING! Call Poison Control Center, physician, or hospital emergency room immediately. Aspiration of vomitus into the lungs can cause pneumonitis, which can be fatal.

Note to Physicians:

N/E

III. Fire Fighting Measures:**Suitable Extinguishing Media:**

Water Fog, Foam, Carbon Dioxide, Dry Chemical

Unsuitable Extinguishing Media:

Do not use forced water stream as this could cause the fire to spread.

Products of Combustion:

Normal products of combustion, smoke, carbon dioxide, carbon monoxide, and sulfur trioxides.

Protection of Firefighters:

Wear self-contained positive pressure breathing apparatus and protective clothes. Use shield to protect from rupturing and venting containers. At elevated temperatures containers may vent, rupture or burst, even violently

IV. Environmental Release Measures:**Personal Precautions:**

Eliminate all ignition sources. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental Precautions:

Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify proper authorities as required that a spill has occurred. Run off to sewer may create fire or explosion hazard.

Methods for Containment:

Dike or contain spill and absorb with inert materials (sand, sawdust, absorbent sweeping compounds, rags, etc).

Methods for Cleanup:

Using a non-metallic scoop, place contaminated material into an approved chemical waste container. Where possible, vacuum spilled liquid using an explosion proof vacuum to recover material.

Other Information:

If run-off occurs, notify proper authorities as required that a spill has occurred.

V. Handling and Storage:**Handling Precautions:**

Handling: Use with adequate ventilation and proper protective equipment.
Do not use near fire, sparks, or flame. Do not puncture or incinerate container.
Contact lenses may cause further damage in case of splash into eye. KEEP AWAY FROM CHILDREN AND ANIMALS!

Storage Precautions:

Store in cool, well ventilated area below 120°F away from heat sources, oxidizers and acids. Exposure to temperatures above 120° may cause container to vent, rupture, or burst.

MSDS - Material Safety Data Sheet**Product Name: LIQUID WRENCH HEAVY DUTY SILICONE SPRAY
LUBRICANT**

MSDS No.: M906

III. Exposure Controls/Personal Protection

Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
Aliphatic Hydrocarbon Solvent	100 ppm	100 ppm	Not Available
Dimethyl Polysiloxane	N/E	N/E	Not Available
Carbon dioxide	N/AV	5000 ppm	Not Available
Naphthenic Petroleum Distillate	5 mg/m3	5 mg/m3	Not Available
1,2,4-Trimethylbenzene	N/E	25 ppm	Not Available
Mesitylene	N/A	N/A	Not Available
Xylene (mixed isomers)	100 ppm	100 ppm	Not Available
Ethylbenzene	100 ppm	100 ppm	Not Available
Hydrocarbon Fluid	5 mg/m3	5 mg/m3	Not Available
Low Odor Base Solvent	N/E	N/E	Not Available

Engineering Controls:

See Section above for applicable exposure limits. Use with adequate ventilation. If TLV is exceeded, wear NIOSH approved respirator.

Personal Protective Equipment:

For prolonged exposure wear protective safety glasses, gloves, and apron.

IV. Physical and Chemical Properties

Boiling Point: 310°F	Melting Point: N/A
Boiling Range: N/D	Freezing Point: N/D
Solubility in Water: Insoluble	Evaporation Rate (Butyl Acetate = 1): N/D
Flash Point: 125°F	Flash Point Method: TCC
Odor Threshold: N/D	Appearance and Odor: Clear to slight yellow liquid with petroleum odor.
Vapor Density (AIR = 1): N/D	Vapor Pressure (mm Hg.): N/D
pH Range: N/A	Partition Coefficient: N/D
Decomposition Temp: N/D	Auto-Ignition Temp: N/D
Lower Explosive Limit: N/D	Upper Explosive Limit: N/D
Specific Gravity (H2O = 1): 0.81	
Other Information: % VOC: 56.86%	

V. Stability and Reactivity**Stability:**

Stable

Conditions to Avoid:

See Incompatible Materials below.

Incompatible Materials:

Oxidizing agents and acids.

Hazardous Decomposition Products:

Normal products of combustion, carbon dioxide, smoke and Nitrogen and Sulfur Oxides

Possibility of Hazardous Reactions:

MSDS - Material Safety Data Sheet**Product Name: LIQUID WRENCH HEAVY DUTY SILICONE SPRAY
LUBRICANT**

MSDS No.: M906

Will not occur

XI. Toxicological Information

N/D

XII. Ecological Information

N/D

XIII. Disposal Considerations

DISPOSAL: This container may be recycled in aerosol recycling centers when empty. Before offering for recycling, empty the can by using the product according to the label. DO NOT PUNCTURE! If recycling is not available, wrap the empty container and discard in the trash. Do not dump into sewers, on the ground, or into any body of water. Dispose of unused product in accordance with all local, state government and federal laws and regulations.

XIV. Transport Information**Shipping Name:** Aerosols**DOT Hazard Class:** ORM-D**UN/NA#:** 1950**DOT Subsidiary Hazard Class:** Not Available**Packing Group:** Not Available**Transportation Information:**

DOT Hazard Class: ORM-D

Shipping Name: Consumer Commodity

The DOT description is provided to assist in the proper shipping classification of this product and may not be suitable for international and air shipping purposes.

ICAO/IATA (US)

Shipping Name: Aerosols

Class: 2.1

UN number: UN1950

International:

ICAO/IATA

UN number: UN1950

Shipping Name: Aerosols

Class: 2.1

IMDG

UN number: UN1950

Shipping Name: Aerosols

Class: 2.1

EmS: F-D, S-U

XV. Regulatory Information

MSDS - Material Safety Data Sheet

Product Name: **LIQUID WRENCH HEAVY DUTY SILICONE SPRAY LUBRICANT**

MSDS No.: M906

SARA 313 Reportable Chemicals.
 1,2,4, Trimethylbenzene 95-63-6
 Xylene 1330-20-7
 Ethylbenzene 100-41-4

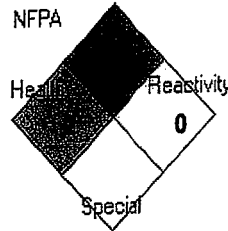
USA TSCA: All components of this material are listed on the US TSCA Inventory.

Warning: This product contains a chemical(s) known to the State of California to cause cancer or birth defects or other reproductive harm.

State RTK Chemicals
 Aliphatic hydrocarbon solvent 8052-41-3
 Xylene 1330-20-7
 Ethylbenzene 100-41-4
 Carbon dioxide 124-38-9

1.1 Other Information

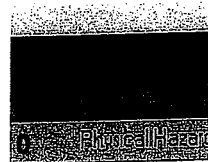
- Chemical State:** Liquid Gas Solid
- Chemical Type:** Pure Mixture
- Hazard Category:** Acute Chronic Fire Reactive
- Pressure Reactive



Additional Manufacturer Warnings:

Do not used in confined area without proper ventilation. Contact lenses may cause further damage in case of splash into eye. **KEEP AWAY FROM CHILDREN AND ANIMALS!**

N/E: Not Established
 N/D: Not Determined
 N/A: Not Applicable
 N/AV: Not Available



A Pers. Protection

Additional Product Information:

While Radiator Specialty Company believes this data is accurate as of the revision date, we make no warranty with respect to the data and we expressly disclaim all liability for reliance thereon. The data is offered solely for information, investigation, and verification. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this MSDS. The user is responsible for full compliance.

Material Safety Data Sheet

24 Hour Assistance:
1-847-367-7700
Rust-Oleum Corp.
www.rustoleum.com

Section 1 - Chemical Product / Company Information

Product Name: STRUST QT 4PK FLAT WHT CLEAN METAL PRIMR Revision Date: 12/07/2010
 Identification Number: 7780504
 Product Use/Class: Primer/ Alkyd
 Supplier: Rust-Oleum Corporation Manufacturer: Rust-Oleum Corporation
 11 Hawthorn Parkway 11 Hawthorn Parkway
 Vernon Hills, IL 60061 Vernon Hills, IL 60061
 USA USA
 Preparer: Regulatory Department

Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Than		ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL CEILING
Mineral Spirits	64742-88-7	40.0		100 ppm	N.E.	100 ppm	N.E.
Magnesium Silicate	14807-96-6	25.0		2 mg/m ³	N.E.	0.1 mg/m ³ (Respirable)	N.E.
Titanium Dioxide	13463-67-7	15.0		10 mg/m ³	N.E.	15 mg/m ³ (Total Dust)	N.E.
Strontium Zinc Phosphosilicate	MIXTURE	5.0		N.E.	N.E.	N.E.	N.E.

Section 3 - Hazards Identification

*** Emergency Overview ***: Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. Harmful if swallowed. Causes eye irritation. Vapors irritating to eyes and respiratory tract. Combustible liquid and vapor.

Effects Of Overexposure - Eye Contact: Causes eye irritation.

Effects Of Overexposure - Skin Contact: May cause skin irritation.

Effects Of Overexposure - Inhalation: High vapor concentrations are irritating to the eyes, nose, throat and lungs. May cause headaches and dizziness. Harmful if inhaled.

Effects Of Overexposure - Ingestion: Aspiration hazard if swallowed; can enter lungs and cause damage. Substance may be harmful if swallowed.

Effects Of Overexposure - Chronic Hazards: Contains Titanium Dioxide. Titanium Dioxide is listed as a Group 3-"Possibly carcinogenic to humans" by IARC. Significant exposure is not anticipated during brush application or spraying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of Titanium Dioxide in the formula. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Ingestion, Eye Contact

Section 4 - First Aid Measures

First Aid - Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

First Aid - Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

First Aid - Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation.

First Aid - Ingestion: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention.

Section 5 - Fire Fighting Measures

Flash Point: 104 F (Setaflash)

Extinguishing Media: Film Forming Foam, Carbon Dioxide, Dry Chemical, Water Fog

Unusual Fire And Explosion Hazards: Keep containers tightly closed.

Special Firefighting Procedures: Evacuate area and fight fire from a safe distance. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers.

Section 7 - Handling And Storage

Handling: Wash thoroughly after handling. Wash hands before eating. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Avoid breathing vapor or mist. Avoid contact with eyes.

Storage: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Keep away from heat, sparks, flame and sources of ignition. Keep container closed when not in use.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Respiratory Protection: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or in any other circumstances where air purifying respirators may not provide adequate protection.

Skin Protection: Use impervious gloves to prevent skin contact and absorption of this material through the skin. Nitrile or Neoprene gloves may afford adequate skin protection.

Eye Protection: Use safety eyewear designed to protect against splash of liquids.

Other protective equipment: Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

Hygienic Practices: Wash thoroughly with soap and water before eating, drinking or smoking.

Section 9 - Physical And Chemical Properties

Vapor Density:	Heavier than Air	Odor:	Mild
Appearance:	Liquid	Evaporation Rate:	Slower than Ether
Solubility in H ₂ O:	Slight	Freeze Point:	N.D.
Specific Gravity:	1.238	PH:	N.A.
Physical State:	Liquid		

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Avoid all possible sources of ignition.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalis.

Hazardous Decomposition: By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

Section 11 - Toxicological Information

Chemical Name	LD50	LC50
Mineral Spirits	>5000 mg/kg (Rat, Oral)	>1400 ppm (Rat, Inhalation, 4Hr)
Magnesium Silicate	N.E.	TCLo: 11 mg/m ³ (Inhalation)
Titanium Dioxide	>7500 mg/kg (Rat, Oral)	N.E.
Strontium Zinc Phosphosilicate	N.E.	N.E.

Section 12 - Ecological Information

Ecological Information: Product is a mixture of listed components.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance to local, state and federal regulations and ordinances. Do not allow to enter storm drains or sewer systems.

Section 14 - Transportation Information

	Domestic (USDOT)	International (IMDG)	Air (IATA)
Proper Shipping Name:	Paint, Not Regulated	Paint	Paint
Hazard Class:	N.A.	3	3
UN Number:	N.A.	UN1263	UN1263
Packing Group:	N.A.	III	III
Limited Quantity:	No	IMDG 34-08, 3.4.7	Yes

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD

SARA Section 313:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<u>Chemical Name</u>	<u>CAS Number</u>
Strontium Zinc Phosphosilicate	MIXTURE

Toxic Substances Control Act:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of TSCA 12(B) if exported from the United States:

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

<u>Chemical Name</u>	<u>CAS Number</u>
Alkyd Resin	PROPRIETARY

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

Chemical Name
Alkyd Resin

CAS Number
PROPRIETARY

International Regulations: As follows -

CANADIAN WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: B3 D2A D2B

Section 16 - Other Information

NFPA Ratings:

Health: 2

Flammability: 2

Instability: 0

VOLATILE ORGANIC COMPOUNDS, g/l: 465

REASON FOR REVISION: Regulatory Update

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this material safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

Material Safety Data Sheet

24 Hour Assistance:
1-847-367-7700
Rust-Oleum Corp.
www.rustoleum.com

Section 1 - Chemical Product / Company Information

Product Name: SPECLT SSPR 6PK HIHEAT BAR-B-QUE BLK 120
 Identification Number: 7778830
 Product Use/Class: High Heat Coating/Aerosol
 Supplier: Rust-Oleum Corporation
 11 Hawthorn Parkway
 Vernon Hills, IL 60061
 USA
 Preparer: Regulatory Department

Revision Date: 09/26/2011

Manufacturer: Rust-Oleum Corporation
 11 Hawthorn Parkway
 Vernon Hills, IL 60061
 USA

Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Than		ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL CEILING
Acetone	67-64-1	45.0		500 ppm	750 ppm	1000 ppm	N.E.
Liquefied Petroleum Gas	68476-86-8	25.0		N.E.	N.E.	N.E.	N.E.
Xylene	1330-20-7	15.0		100 ppm	150 ppm	100 ppm	N.E.
Ethylbenzene	100-41-4	5.0		100 ppm	125 ppm	100 ppm	N.E.
Iron Manganese Oxide	68186-94-7	5.0		10 mg/m ³	N.E.	N.E.	N.E.
Magnesium Silicate	14807-98-6	5.0		2 mg/m ³	N.E.	0.1 mg/m ³ (Respirable)	N.E.
Copper Chromite Black	68186-91-4	5.0		0.5 mg/m ³	N.E.	0.5 mg/m ³	N.E.
Solvent Naptha, Light Aromatic	64742-95-6	5.0		N.E.	N.E.	N.E.	N.E.
1,2,4-Trimethylbenzene	95-63-6	5.0		25 ppm	N.E.	N.E.	N.E.
Carbon Black	1333-86-4	1.0		3.5 mg/m ³	N.E.	3.5 mg/m ³	N.E.

Section 3 - Hazards Identification

*** Emergency Overview ***: Contents Under Pressure. Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. Vapors may cause flash fire or explosion. Harmful if swallowed. Extremely flammable liquid and vapor.

Effects Of Overexposure - Eye Contact: Causes eye irritation.

Effects Of Overexposure - Skin Contact: Prolonged or repeated contact may cause skin irritation. Substance may cause slight skin irritation.

Effects Of Overexposure - Inhalation: High vapor concentrations are irritating to the eyes, nose, throat and lungs. Avoid breathing vapors or mists. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Harmful if inhaled.

Effects Of Overexposure - Ingestion: Aspiration hazard if swallowed; can enter lungs and cause damage. Substance may be harmful if swallowed.

Effects Of Overexposure - Chronic Hazards: IARC lists Ethylbenzene as a possible human carcinogen (group 2B). May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage.

Contains carbon black. Chronic inflammation, lung fibrosis, and lung tumors have been observed in some rats experimentally exposed for long periods of time to excessive concentrations of carbon black and several insoluble fine dust particles. Tumors have not been observed in other animal species (i.e., mouse and hamster) under similar circumstances and study conditions. Epidemiological studies of North American workers show no evidence of clinically significant adverse health effects due to occupational exposure to carbon black.

Carbon black is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC and is proposed to be listed as A4- "not classified as a human carcinogen" by the American Conference of Governmental Industrial Hygienists. Significant exposure is not anticipated during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of carbon black in the formula.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Ingestion, Eye Contact

Section 4 - First Aid Measures

First Aid - Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

First Aid - Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

First Aid - Inhalation: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

First Aid - Ingestion: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention.

Section 5 - Fire Fighting Measures

Flash Point: -156 F (Setaflash)

Extinguishing Media: Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

Unusual Fire And Explosion Hazards: FLASH POINT IS LESS THAN 20 °. F. - EXTREMELY FLAMMABLE LIQUID AND VAPOR! Perforation of the pressurized container may cause bursting of the can. Isolate from heat, electrical equipment, sparks and open flame. Keep containers tightly closed. Water spray may be ineffective. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back.

Special Firefighting Procedures: Evacuate area and fight fire from a safe distance.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not

incinerate closed containers.

Section 7 - Handling And Storage

Handling: Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Use only in a well-ventilated area. Avoid breathing vapor or mist. Wash thoroughly after handling. Wash hands before eating.

Storage: Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of NFPA Class I flammable liquids. Contents under pressure. Do not expose to heat or store above 120 ° F. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Use explosion-proof ventilation equipment. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Respiratory Protection: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or in any other circumstances where air purifying respirators may not provide adequate protection.

Skin Protection: Nitrile or Neoprene gloves may afford adequate skin protection. Use impervious gloves to prevent skin contact and absorption of this material through the skin.

Eye Protection: Use safety eyewear designed to protect against splash of liquids.

Other protective equipment: Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

Hygienic Practices: Wash thoroughly with soap and water before eating, drinking or smoking.

Section 9 - Physical And Chemical Properties

Vapor Density:	Heavier than Air	Odor:	Solvent Like
Appearance:	Liquid	Evaporation Rate:	Faster than Ether
Solubility in H ₂ O:	Slight	Freeze Point:	N.D.
Specific Gravity:	0.772	pH:	N.A.
Physical State:	Liquid		

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Avoid temperatures above 120 ° F. Avoid all possible sources of ignition.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalis.

Hazardous Decomposition: By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

Section 11 - Toxicological Information

Chemical Name	LD50	LC50
Acetone	5800 mg/kg (Rat)	50100 mg/m3 (Rat, 8Hr)
Liquefied Petroleum Gas	N.E.	N.E.
Xylene	4300 mg/kg (Rat, Oral)	5000 ppm (Rat, Inhalation, 4Hr)
Ethylbenzene	3500 mg/kg (Rat, Oral)	N.E.
Iron Manganese Oxide	>5000 mg/kg (Rat, Oral)	N.E.
Magnesium Silicate	N.E.	TCLo: 11 mg/m3 (Inhalation)
Copper Chromite Black	>10000 mg/L (Rat, Oral)	N.E.
Solvent Naptha, Light Aromatic	4700 mg/kg (Rat, Oral)	3670 mg/kg (Rat, Inhalation)
1,2,4-Trimethylbenzene	N.E.	18000 mg/m3 (Rat, 4Hr)
Carbon Black	>8000 mg/kg (Rat, Oral)	N.E.

Section 12 - Ecological Information

Ecological Information: Product is a mixture of listed components.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance to local, state and federal regulations and ordinances. Do not allow to enter storm drains or sewer systems.

Section 14 - Transportation Information

	Domestic (USDOT)	International (IMDG)	Air (IATA)
Proper Shipping Name:	Consumer Commodity	Aerosols	Aerosols
Hazard Class:	ORM-D	2.1	2.1
UN Number:	N.A.	UN1950	UN1950
Packing Group:	N.A.	N.A.	N.A.
Limited Quantity:	No	Yes	Yes

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD, PRESSURIZED GAS HAZARD

JARA Section 313:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number
Xylene	1330-20-7
Ethylbenzene	100-41-4
Iron Manganese Oxide	68186-94-7
Copper Chromite Black	68186-91-4
1,2,4-Trimethylbenzene	95-63-6

Toxic Substances Control Act:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of TSCA 12(B) if exported from the United States:

U.S. State Regulations: As follows -**New Jersey Right-to-Know:**

The following materials are non-hazardous, but are among the top five components in this product.

None

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

None

International Regulations: As follows -**CANADIAN WHMIS:**

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: AB5 D2A D2B

Section 16 - Other Information**HMIS Ratings:**

Health: 2*

Flammability: 4

Physical Hazard: 0

Personal Protection: X

NFPA Ratings:

Health: 2

Flammability: 4

Instability: 0

VOLATILE ORGANIC COMPOUNDS, g/L: 583

REASON FOR REVISION: Regulatory Update

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this material safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

Material Safety Data Sheet

24 Hour Assistance:
1-847-367-7700
Rust-Oleum Corp.
www.rustoleum.com

Section 1 - Chemical Product / Company Information

Product Name: PTOUCH +SSPR 6PK GLOSS ALMOND 12 OZ
 Identification Number: 1994830
 Product Use/Class: Topcoat/Aerosol
 Supplier: Rust-Oleum Corporation
 11 Hawthorn Parkway
 Vernon Hills, IL 60061
 USA
 Preparer: Regulatory Department

Revision Date: 06/10/2011

Manufacturer: Rust-Oleum Corporation
 11 Hawthorn Parkway
 Vernon Hills, IL 60061
 USA

Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Than		ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL CEILING
Acetone	67-64-1	40.0		500 ppm	750 ppm	1000 ppm	N.E.
Liquefied Petroleum Gas	68476-86-8	30.0		N.E.	N.E.	N.E.	N.E.
Titanium Dioxide	13463-67-7	10.0		10 mg/m3	N.E.	15 mg/m3 (Total Dust)	N.E.
Naphtha	8032-32-4	10.0		N.E.	N.E.	N.E.	N.E.
Xylene	1330-20-7	5.0		100 ppm	150 ppm	100 ppm	N.E.
Solvent Naptha, Light Aromatic	64742-95-6	5.0		N.E.	N.E.	N.E.	N.E.
1,2,4-Trimethylbenzene	95-63-6	5.0		25 ppm	N.E.	N.E.	N.E.
Ethylbenzene	100-41-4	5.0		100 ppm	125 ppm	100 ppm	N.E.

Section 3 - Hazards Identification

*** Emergency Overview ***: Contents Under Pressure. Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. Vapors may cause flash fire or explosion. Harmful if swallowed. Extremely flammable liquid and vapor.

Effects Of Overexposure - Eye Contact: Causes eye irritation.

Effects Of Overexposure - Skin Contact: Prolonged or repeated contact may cause skin irritation. Substance may cause slight skin irritation.

Effects Of Overexposure - Inhalation: High vapor concentrations are irritating to the eyes, nose, throat and lungs. Avoid breathing vapors or mists. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Harmful if inhaled.

Effects Of Overexposure - Ingestion: Aspiration hazard if swallowed; can enter lungs and cause damage. Substance may be harmful if swallowed.

Effects Of Overexposure - Chronic Hazards: IARC lists Ethylbenzene as a possible human carcinogen (group 2B). Contains Titanium Dioxide. Titanium Dioxide is listed as a Group 2B-"Possibly carcinogenic to humans" by

ARC. Significant exposure is not anticipated during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of Titanium Dioxide in the formula.

May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Ingestion, Eye Contact

Section 4 - First Aid Measures

First Aid - Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

First Aid - Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

First Aid - Inhalation: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

First Aid - Ingestion: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention.

Section 5 - Fire Fighting Measures

Flash Point: -156 F (Setaflash)

Extinguishing Media: Film Forming Foam, Carbon Dioxide, Dry Chemical, Water Fog

Unusual Fire And Explosion Hazards: FLASH POINT IS LESS THAN 20 ° F. - EXTREMELY FLAMMABLE LIQUID AND VAPOR! Perforation of the pressurized container may cause bursting of the can. Isolate from heat, electrical equipment, sparks and open flame. Water spray may be ineffective. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Keep containers tightly closed.

Special Firefighting Procedures: Evacuate area and fight fire from a safe distance.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust.

Section 7 - Handling And Storage

Handling: Wash thoroughly after handling. Wash hands before eating. Avoid breathing vapor or mist. Use only in a well-ventilated area. Follow all MSDS/label precautions even after container is emptied because it may retain product residues.

Storage: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Do not

store above 120 ° F. Store large quantities in buildings designed and protected for storage of NFPA Class I flammable liquids. Contents under pressure. Do not expose to heat or store above 120 ° F.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Use explosion-proof ventilation equipment. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Respiratory Protection: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or in any other circumstances where air purifying respirators may not provide adequate protection.

Skin Protection: Nitrile or Neoprene gloves may afford adequate skin protection. Use impervious gloves to prevent skin contact and absorption of this material through the skin.

Eye Protection: Use safety eyewear designed to protect against splash of liquids.

Other protective equipment: Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

Hygienic Practices: Wash thoroughly with soap and water before eating, drinking or smoking.

Section 9 - Physical And Chemical Properties

Vapor Density:	Heavier than Air	Odor:	Solvent Like
Appearance:	Aerosolized Mist	Evaporation Rate:	Faster than Ether
Solubility in H ₂ O:	Slight	Freeze Point:	N.D.
Specific Gravity:	0.769	pH:	N.A.
Physical State:	Liquid		

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Avoid temperatures above 120 ° F. Avoid all possible sources of ignition.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalis.

Hazardous Decomposition: By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

Section 11 - Toxicological Information

Chemical Name	LD50	LC50
Acetone	5800 mg/kg (Rat)	50100 mg/m3 (Rat, 8Hr)
Liquefied Petroleum Gas	N.E.	N.E.
Titanium Dioxide	>7500 mg/kg (Rat, Oral)	N.E.
Naphtha	>5000 mg/kg (Rat, Oral)	N.E.
Xylene	4300 mg/kg (Rat, Oral)	5000 ppm (Rat, Inhalation, 4Hr)
Solvent Naptha, Light Aromatic	4700 mg/kg (Rat, Oral)	3670 mg/kg (Rat, Inhalation)
1,2,4-Trimethylbenzene	N.E.	18000 mg/m3 (Rat, 4Hr)
Ethylbenzene	3500 mg/kg (Rat, Oral)	N.E.

Section 12 - Ecological Information

Ecological Information: Product is a mixture of listed components.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance to local, state and federal regulations and ordinances. Do not allow to enter storm drains or sewer systems.

Section 14 - Transportation Information

	Domestic (USDOT)	International (IMDG)	Air (IATA)
Proper Shipping Name:	Consumer Commodity	Aerosols	Aerosols
Hazard Class:	ORM-D	2.1	2.1
UN Number:	N.A.	UN1950	UN1950
Packing Group:	N.A.	N.A.	N.A.
Limited Quantity:	No	Yes	Yes

Section 15 - Regulatory Information**CERCLA - SARA Hazard Category**

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD, PRESSURIZED GAS HAZARD

SARA Section 313:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number
Xylene	1330-20-7
1,2,4-Trimethylbenzene	95-63-6
Ethylbenzene	100-41-4

Toxic Substances Control Act:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of TSCA 12(B) if exported from the United States:

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

<u>Chemical Name</u>	<u>CAS Number</u>
Modified Alkyd	PROPRIETARY

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

<u>Chemical Name</u>	<u>CAS Number</u>
Modified Alkyd	PROPRIETARY

International Regulations: As follows -

CANADIAN WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: AB5 D2A D2B

Section 16 - Other Information

HMIS Ratings:

Health: 2*	Flammability: 4	Reactivity: 0	Personal Protection: X
------------	-----------------	---------------	------------------------

NFPA Ratings:

Health: 2	Flammability: 4	Instability: 0
-----------	-----------------	----------------

VOLATILE ORGANIC COMPOUNDS, g/L: 512

REASON FOR REVISION: Regulatory Update

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this material safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is

1994830 PTOUCH +SSPR 6PK GLOSS ALMOND 12 OZ

Page 6 of 6

the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.



Material Safety Data Sheet

Section 1: Product & Company Identification

Product Name: Power Lube® Multi-Purpose Lubricant (aerosol)

Product Number (s): 05005, 05006, 85005, 85005AZ

Manufactured By:
CRC Industries, Inc.
885 Louis Drive
Warminster, PA 18974
www.crcindustries.com

General Information	(215) 674-4300
Technical Assistance	(800) 521-3168
Customer Service	(800) 272-8963
24-Hr Emergency (CHEMTREC)	(800) 424-9300

Section 2: Hazards Identification

Emergency Overview

Appearance & Odor: Amber liquid, pleasant odor

DANGER

Flammable. Harmful or Fatal if Swallowed. Contents Under Pressure.

As defined by OSHA's Hazard Communication Standard, this product is hazardous.

Potential Health Effects:

- EYE:** Contact may cause mild irritation including stinging, watering and redness.
- SKIN:** Contact may cause redness, itching, burning and skin damage. Prolonged or repeated contact can worsen irritation and lead to dermatitis. No harmful effects from skin absorption are expected.
- INHALATION:** Expected to have a low degree of toxicity by inhalation. High concentrations of vapors may be irritating to the respiratory tract, and may cause headaches, dizziness, anesthesia, drowsiness, and other central nervous system effects.
- INGESTION:** Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death.
- CHRONIC EFFECTS:** None known
- TARGET ORGANS:** None known

Medical Conditions Aggravated by Exposure:

Existing dermatitis

See Section 11 for toxicology and carcinogenicity information on product ingredients.

Product Name: Power Lube® Multi-Purpose Lubricant (Aerosol)
Product Number (s): 05005, 05006, 85005, 85005AZ

Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
Hydrotreated light distillates	64742-47-8	65 - 75
Solvent-refined heavy paraffinic distillates	64741-88-4	15 - 25
Inhibitor blend	proprietary	5 - 15
Carbon dioxide	124-28-9	1 - 5

Section 4: First Aid Measures

Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.

Skin Contact: Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.

Inhalation: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.

Ingestion: If swallowed, do NOT induce vomiting. Keep at rest. Get prompt medical attention.

Note to Physicians: This product is an aspiration hazard.

Section 5: Fire-Fighting Measures

Flammable Properties: This product is flammable in accordance with aerosol flammability definitions (16 CFR 1500.3(c)(6)).

Flash Point: 165 F (TCC) **Upper Explosive Limit:** 5.0

Autoignition Temperature: ND **Lower Explosive Limit:** 0.7

Suitable Extinguishing Media: Foam, dry chemical, carbon dioxide or water spray.

Products of Combustion: Oxides of carbon

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

Section 6: Accidental Release Measures

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush

Product Name: Power Lube® Multi-Purpose Lubricant (Aerosol)
Product Number (s): 05005, 05006, 85005, 85005AZ

into sewers or storm drains.

Methods for Containment & Clean-up: Remove sources of ignition. Dike area to contain spill. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

Section 7: Handling and Storage

Handling Procedures: Do not use near an open flame, heat or other sources of ignition.

Storage Procedures: Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120 F to prevent cans from rupturing.

Aerosol Storage Level: III

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
Hydrotreated light distillates	NE	NE	NE	NE	1200	mfr	mg/m ³
Solvent-refined heavy paraffinic distillates	5*	NE	5*	10*	NE		mg/m ³
Inhibitor blend	NE	NE	NE	NE	NE		
Carbon dioxide	5000	30000(v)	5000	30,000	NE		ppm
N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated *- oil mist							

Engineering Controls: Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.

Respiratory Protection: None required for normal work where adequate ventilation is provided. If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as nitrile or neoprene. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

Section 9: Physical and Chemical Properties

Physical State: Liquid

Color: Amber

Product Name: Power Lube® Multi-Purpose Lubricant (Aerosol)
Product Number (s): 05005, 05006, 85005, 85005AZ

Odor: Pleasant
Specific Gravity: 0.8223
Initial Boiling Point: 380 F
Freezing Point: ND
Vapor Pressure: ND
Vapor Density: > 1 (air = 1)
Evaporation Rate: ND (butyl acetate = 1)
Solubility: negligible in water
pH: NA
Volatile Organic Compounds: wt %: 39.3 g/L: 323.2 lbs./gal: 2.69

Section 10: Stability and Reactivity

Stability: Stable
Conditions to Avoid: Temperature extremes, sources of ignition
Incompatible Materials: Strong oxidizing agents
Hazardous Decomposition Products: Oxides of carbon, oxides of sulfur, hydrocarbons
Possibility of Hazardous Reactions: No

Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

ACUTE EFFECTS

<u>Component</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Hydrotreated light distillate	LD50	> 5 g/kg	Oral	Rat
Hydrotreated light distillate	LD50	> 2 g/kg	Dermal	Rabbit
Hydrotreated light distillate	LC50	> 5 mg/L/4H	Inhalation	Rat

CHRONIC EFFECTS

Carcinogenicity:

	<u>Component</u>	<u>Result</u>
OSHA:	None listed	
IARC:	None listed	
NTP:	None listed	

Other: Paraffinic distillates Product testing using IP 346 shows a DMSO PAH content of < 3% by weight.

Section 12: Ecological Information

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity: No information available

Product Name: Power Lube® Multi-Purpose Lubricant (Aerosol)

Product Number (s): 05005, 05006, 85005, 85005AZ

Persistence / Degradability: No information available

Bioaccumulation / Accumulation: No information available

Mobility in Environment: No information available

Section 13: Disposal Considerations

Disposal: The dispensed liquid product is not a RCRA hazardous waste. (See 40 CFR Part 261.20 – 261.33) Aerosol containers should be fully emptied and depressurized before disposal. The empty container can be recycled.

All disposal activities must comply with federal, state and local regulations. Local regulations may be more stringent than state or national requirements.

Section 14: Transport Information

Proper shipping description:

US DOT (ground): Consumer Commodity, ORM-D

Special Provisions: None

Section 15: Regulatory Information

Federal

Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ's) exist for the following ingredients: None

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories:	Fire Hazard	Yes
	Reactive Hazard	No
	Release of Pressure	Yes
	Acute Health Hazard	Yes
	Chronic Health Hazard	No

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

None

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

Product Name: Power Lube® Multi-Purpose Lubricant (Aerosol)
Product Number (s): 05005, 05006, 85005, 85005AZ

Consumer Product Safety Act General Conformity Certification: This product was evaluated by CRC Industries, Inc., and is certified to be in compliance with the provisions of the Consumer Product Safety Act, the Federal Hazardous Substances Act and the Poison Prevention Packaging Act, as applicable. This product was manufactured at the location listed in Section 1 of this MSDS. The date of manufacture is stamped on the product container. No testing is required to certify compliance with the above-mentioned regulations.

State Regulations

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: NONE

State Right to Know:

New Jersey: None
Pennsylvania: None
Massachusetts: None
Rhode Island: None

Additional Regulatory Information:

In states with Consumer Products VOC regulations, this product is compliant as a Multi-Purpose Lubricant.

Section 16: Other Information

NFPA:	Health: 1	Flammability: 2	Reactivity: 0	
HMIS:	Health: 1	Flammability: 2	Reactivity: 0	PPE: B

Prepared By: Michelle Rudnick
CRC #: 462D
Revision Date: 10/26/2009

Changes since last revision: Part number added

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label.

CAS:	Chemical Abstract Service	NA:	Not Applicable
ppm:	Parts per Million	ND:	Not Determined
TCC:	Tag Closed Cup	NE:	Not Established
PMCC:	Pensky-Martens Closed Cup	g/L:	grams per Liter
PPE:	Personal Protection Equipment	lbs./gal:	pounds per gallon
TWA:	Time Weighted Average	STEL:	Short Term Exposure Limit
OSHA:	Occupational Safety and Health Administration		
ACGIH:	American Conference of Governmental Industrial Hygienists		
NIOSH:	National Institute of Occupational Safety & Health		



MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification

Product Name: White Lithium Grease (aerosol)

Product Number (s): 06037, 76037

Product Use: lubricating grease

Manufacturer / Supplier Contact Information:

In United States:
CRC Industries, Inc.
885 Louis Drive
Warminster, PA 18974
www.crcindustries.com
1-215-674-4300 (General)
(800) 521-3168 (Technical)
(800) 272-4620 (Customer Service)

In Canada:
CRC Canada Co.
2-1246 Lorimar Drive
Mississauga, Ontario L5S 1R2
www.crc-canada.ca
1-905-670-2291

In Mexico:
CRC Industries Mexico
Av. Benito Juárez 4055 G
Colonia Orquídea
San Luis Potosí, SLP CP 78394
www.crc-mexico.com
52-444-824-1666

24-Hr Emergency – CHEMTREC: (800) 424-9300 or (703) 527-3887

Section 2: Hazards Identification

Emergency Overview

DANGER: Extremely Flammable. Harmful or Fatal if Swallowed. Contents Under Pressure.
As defined by OSHA's Hazard Communication Standard, this product is hazardous.
Appearance & Odor: Off-white, viscous grease with solvent odor

Potential Health Effects:

ACUTE EFFECTS:

EYE: May cause mild irritation including stinging and redness, but does not injure eye.

SKIN: Single, brief exposures may cause mild irritation. Frequent or prolonged contact may cause more severe irritation, defatting of the skin, and dermatitis.

INHALATION: High vapor concentrations are irritating to the respiratory tract and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects, including death. May cause peripheral nervous system disorder and/or damage. Heating the dispensed grease may generate irritating vapors.

INGESTION: Low order of toxicity by ingestion. Main hazard is aspiration into the lungs during swallowing or vomiting. Small amounts aspirated into the respiratory system may cause bronchopneumonia or pulmonary edema, possible progressing to death.

CHRONIC EFFECTS: Overexposure to n-hexane may cause progressive and potentially irreversible damage to the peripheral nervous system, particularly in the arms and legs.

TARGET ORGANS: central nervous system, peripheral nervous system, respiratory system

Medical Conditions Aggravated by Exposure: skin and respiratory conditions

See Section 11 for toxicology and carcinogenicity information on product ingredients.

Product Name: White Lithium Grease (aerosol)
Product Number (s): 06037, 76037

Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
Hexane isomers	64742-49-0	40 - 50
n-Hexane	110-54-3	3.2
Heavy naphthenic petroleum distillates	64742-52-5	10 - 20
Liquefied petroleum gas	68476-86-8	35 - 45

Section 4: First Aid Measures

Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.

Skin Contact: Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.

Inhalation: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.

Ingestion: Do NOT induce vomiting. Contact a physician immediately.

Note to Physicians: Treat symptomatically. Gastric lavage using a cuffed endotracheal tube may be performed at your discretion.

Section 5: Fire-Fighting Measures

Flammable Properties: This product is extremely flammable in accordance with aerosol flammability definitions. (See 16 CFR 1500.3(c)(6)).

Flash Point: < 20°F (TCC) Upper Explosive Limit: 9.0
Autoignition Temperature: 489°F Lower Explosive Limit: 1.7

Fire and Explosion Data:

Suitable Extinguishing Media: Class B fire extinguishers, dry chemical, foam or CO₂

Products of Combustion: Fumes, smoke and carbon monoxide

Explosion Hazards: Aerosol containers, when exposed to heat from fire, may build pressure and explode. Vapors may accumulate in a confined space and create a flammable atmosphere.

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition. Do not spray water directly on fire; product will float and could be reignited on surface of water.

Section 6: Accidental Release Measures

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.

Product Name: White Lithium Grease (aerosol)

Product Number (s): 06037, 76037

Methods for Containment & Clean-up: Dike area to contain spill. Remove all sources of ignition. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

Section 7: Handling and Storage

Handling Procedures: Use proper grounding and bonding procedures for transferring materials. Do not use product near any source of ignition. Avoid contact with eyes and skin. Avoid breathing vapors. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. For product use instructions, please see the product label.

Storage Procedures: Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120 F to prevent cans from rupturing.

Aerosol Storage Level: III

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
Hexane isomers	500(v)	1000(v)	500	1000	NE		ppm
n-Hexane	500	NE	50(s)	NE	NE		ppm
Heavy naphthenic petroleum distillates	5	NE	NE	NE	NE		mg/m ³
Liquefied petroleum gas	1000	NE	1000	NE	NE		ppm

N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated

Controls and Protection:

Engineering Controls: Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.

Respiratory Protection: None required for normal work where adequate ventilation is provided. If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with organic vapor cartridge. Air monitoring is needed to determine actual employee exposure levels. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as nitrile, PVC or Viton. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

Product Name: White Lithium Grease (aerosol)
Product Number (s): 06037, 76037

Section 9: Physical and Chemical Properties

Physical State: semi-solid / grease
 Color: off-white
 Odor: solvent
 Odor Threshold: ND
 Specific Gravity: 0.6257
 Initial Boiling Point: 140°F
 Freezing Point: < -50°F
 Vapor Pressure: ND
 Vapor Density: > 1 (air = 1)
 Evaporation Rate: fast
 Solubility: not soluble in water
 Coefficient of water/oil distribution: ND
 pH: NA
 Volatile Organic Compounds: wt %: 85 g/L: 531.8 lbs./gal: 4.43

Section 10: Stability and Reactivity

Stability: Stable
 Conditions to Avoid: Sources of ignition, temperature extremes
 Incompatible Materials: Strong oxidizers
 Hazardous Decomposition Products: Oxides of carbon
 Possibility of Hazardous Reactions: No

Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

Acute Toxicity:

Component	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
Hexane isomers	No data	No data	No data
n-Hexane	28,710 mg/kg	3000 mg/kg	48,000 ppm/4H
Heavy naphthenic petroleum distillates	No data	No data	No data
Liquefied petroleum gas	No data	No data	No data

Chronic Toxicity:

Component	OSHA Carcinogen	IARC Carcinogen	NTP Carcinogen	Irritant E (mild) / S (mild)	Sensitizer Unknown
Hexane isomers	No	No	No	E (moderate) / S (moderate) / R (moderate)	Unknown
n-Hexane	No	No	No	E (moderate)	Unknown
Heavy naphthenic petroleum distillates	No	No	No	No	No
Liquefied petroleum gas	No	No	No	No	No

E – Eye S – Skin R – Respiratory

Product Name: White Lithium Grease (aerosol)
Product Number (s): 06037, 76037

Reproductive Toxicity: No information available
Teratogenicity: No information available
Mutagenicity: No information available
Synergistic Effects: No information available

Section 12: Ecological Information

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity: n-hexane - 48 Hr EC50 water flea: 3.87 mg/L
96 Hr LC50 Lepomis macrochirus: 4.12 mg/L
Persistence / Degradability: No information available
Bioaccumulation / Accumulation: No information available
Mobility in Environment: No information available

Section 13: Disposal Considerations

Waste Classification: The packaged liquid product is a RCRA hazardous waste for the characteristic of ignitability with a waste code of D001. The dispensed grease is not a hazardous waste. Pressurized containers are a D003 reactive waste. (See 40 CFR Part 261.20 – 261.33)
Empty aerosol containers may be recycled.

All disposal activities must comply with federal, state, provincial and local regulations. Local regulations may be more stringent than state, provincial or national requirements.

Section 14: Transport Information

US DOT (ground): Consumer Commodity, ORM-D
ICAO/IATA (air): Consumer Commodity, ID8000, 9
IMO/IMDG (water): Aerosols, UN1950, 2.1, Limited Quantity
Special Provisions: None

Section 15: Regulatory Information

U.S. Federal Regulations:

Toxic Substances Control Act (TSCA):
All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):
Reportable Quantities (RQ's) exist for the following ingredients: n-hexane (5000 lbs)

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Superfund Amendments Reauthorization Act (SARA) Title III:
Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories: Fire Hazard Yes

Product Name: White Lithium Grease (aerosol)

Product Number (s): 06037, 76037

Reactive Hazard	No
Release of Pressure	Yes
Acute Health Hazard	Yes
Chronic Health Hazard	Yes

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:
n-hexane (3.2%)

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): n-hexane

U.S. State Regulations:

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: None

Consumer Products VOC Regulations: This product is not regulated (semi-solid lubricant).

State Right to Know:

New Jersey: 75-83-2, 109-66-0, 78-78-4, 96-37-7, 110-54-3, 79-29-8, 68476-86-8
Pennsylvania: 107-83-5, 75-83-2, 110-54-3, 79-29-8, 68476-86-8
Massachusetts: 107-83-5, 75-83-2, 110-54-3, 79-29-8, 68476-86-8
Rhode Island: 75-83-2, 110-54-3, 79-29-8, 68476-86-8

Canadian Regulations:

Controlled Products Regulations:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Hazard Class: A, B5, D2B

Canadian DSL Inventory: All ingredients are either listed on the DSL Inventory or are exempt.

European Union Regulations:

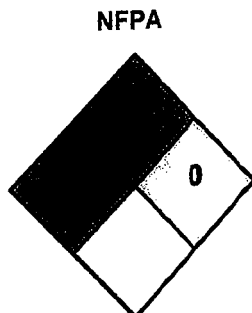
RoHS Compliance: This product is compliant with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. This product does not contain any of the restricted substances as listed in Article 4(1) of the RoHS Directive.

Additional Regulatory Information: None

Product Name: White Lithium Grease (aerosol)
Product Number (s): 06037, 76037

Section 16: Other Information

HMIS® (II)	
Health:	2
	3
Reactivity:	0
PPE:	B



Ratings range from 0 (no hazard) to 4 (severe hazard)

Prepared By: Michelle Rudnick
 CRC #: 568G
 Revision Date: 02/02/2009

Changes since last revision: MSDS reformatted to meet the requirements of the Canadian Controlled Products Regulations.

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this MSDS consult your supervisor, a health & safety professional, or CRC Industries.

ACGIH: American Conference of Governmental Industrial Hygienists
 CAS: Chemical Abstract Service
 CFR: Code of Federal Regulations
 DOT: Department of Transportation
 DSL: Domestic Substance List
 g/L: grams per Liter
 HMIS: Hazardous Materials Identification System
 IARC: International Agency for Research on Cancer
 IATA: International Air Transport Association
 ICAO: International Civil Aviation Organization
 IMDG: International Maritime Dangerous Goods
 IMO: International Maritime Organization
 lbs./gal: pounds per gallon
 LC: Lethal Concentration
 LD: Lethal Dose

NA: Not Applicable
 ND: Not Determined
 NIOSH: National Institute of Occupational Safety & Health
 NFPA: National Fire Protection Association
 NTP: National Toxicology Program
 OSHA: Occupational Safety and Health Administration
 PMCC: Pensky-Martens Closed Cup
 PPE: Personal Protection Equipment
 ppm: Parts per Million
 RoHS: Restriction of Hazardous Substances
 STEL: Short Term Exposure Limit
 TCC: Tag Closed Cup
 TWA: Time Weighted Average
 WHMIS: Workplace Hazardous Materials Information System

MSDS - Material Safety Data Sheet**Product Name: LIQUID WRENCH UNIVERSAL CHAIN LUBE****MSDS No.: L706****I. Basic Information****Manufacturer:** RADIATOR SPECIALTY COMPANY**Address:** 600 RADIATOR ROAD**City, ST Zip:** INDIAN TRAIL, NC 28079**Country:****Contact:** Robert Geer**Information Telephone Number:** 704-684-1811**Emergency Contact:** Rocky Mountain Poison Control Center**Emergency Telephone Number:** 303-623-5716**Emergency Restrictions:****Product Name:** LIQUID WRENCH UNIVERSAL CHAIN LUBE**MSDS No.:** L706**Issue Date:** 11/04/2009**Supersedes Date:** Not Available**II. Hazard Identification****EMERGENCY OVERVIEW**

Danger: Flammable, Harmful for fatal if swallowed, Eye and Skin Irritant, Contents under pressure.

Level 3 Aerosol

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects**Route(s) of Entry:**

Eyes, skin, inhalation, ingestion

Health Hazards (Acute and Chronic):

See signs and symptoms below

Signs and Symptoms:

Eye Irritant. Skin irritation, defatting and dermatitis on prolonged exposure.

Vapors harmful. May cause irritation to lungs, narcosis effects.

Harmful if swallowed.

Medical Conditions Generally Aggravated by Exposure:

None known

Other Health Warnings:

Vomiting and subsequent aspiration into the lungs may lead to chemical pneumonia and pulmonary edema which is a potentially fatal condition.

Potential Environmental Effects

Not Available

III. Composition/Information on Ingredients

Chemical Name	CAS No.	% Range	Trade Secret
1,2,4-Trimethylbenzene	95-63-6	3.0 - 7.0	
Aliphatic Hydrocarbon Solvent	8052-41-3	40.0 - 70.0	
Butene, homopolymer	9003-29-6	10.0 - 30.0	
Carbon dioxide	124-38-9	1.0 - 5.0	
Ethylbenzene	100-41-4	0.1 - 1.0	
Ethylene/Propylene Co-Polymer	9010-79-1	1.0 - 5.0	
Mesitylene	108-67-8	3.0 - 7.0	
Molybdenum, bis carbamodithioate oxo thioxo complexes	906665-74-5	0.1 - 1.0	
Naphthenic Petroleum Distillate	64742-52-5	0.1 - 1.0	
Petroleum Oil	64742-65-0	10.0 - 30.0	

MSDS - Material Safety Data Sheet**Product Name: LIQUID WRENCH UNIVERSAL CHAIN LUBE**

MSDS No.: L706

Xylene (mixed isomers)

Zinc Compound

1330-20-7

19210-06-1

1.0 - 5.0

<0.1

VI. First Aid Measures**Emergency and First Aid Procedures:**

Eye Contact: Flush eyes with clean water for 15 minutes while lifting eyelids and get prompt medical attention.
 Skin Contact: Wash with soap and water thoroughly. If adverse effects persist, get prompt medical attention. Launder contaminated clothing before reuse.
 Inhalation: Remove to fresh air. If breathing becomes difficult get prompt medical attention.
 Ingestion: DO NOT INDUCE VOMITING! Call Poison Control Center, physician, or hospital emergency room immediately.

Note to Physicians:

N/D

VII. Fire Fighting Measures**Suitable Extinguishing Media:**

Water Fog, Foam, Carbon Dioxide, Dry Chemical.

Unsuitable Extinguishing Media:

Do not use forced water stream as this could cause the fire to spread.

Products of Combustion:

Normal products of combustion: Carbon dioxide, carbon monoxide, smoke, nitrogen and sulfur oxides

Protection of Firefighters:

Wear self-contained positive pressure breathing apparatus and protective clothes. Use shield to protect from rupturing and venting containers. At elevated temperatures containers may vent, rupture or burst, even violently

VIII. Accidental Release Measures**Personal Precautions:**

Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental Precautions:

Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify proper authorities as required that a spill has occurred. Run off to sewer may create fire or explosion hazard.

Methods for Containment:

Dike or contain spill and absorb with inert materials (sand, sawdust, absorbent sweeping compounds, rags, etc).

Methods for Cleanup:

Using a non-metallic scoop, place contaminated material into an approved chemical waste container. Where possible, vacuum spilled liquid using an explosion proof vacuum to recover material.

Other Information:

All equipment used with handling the concentrate must be grounded. If run-off occurs, notify proper authorities as required that a spill has occurred.

IX. Handling and Storage**Handling Precautions:**Handling: Use with adequate ventilation and proper protective equipment.
Do not use near fire, sparks, or flame. Do not puncture or incinerate container. Contact lenses may cause further damage in case of splash into eye. KEEP AWAY FROM CHILDREN AND ANIMALS!**Storage Precautions:**

Store in cool, well ventilated area below 120°F away from heat sources.

X. Exposure Controls/Personal Protection

MSDS - Material Safety Data Sheet

Product Name: *LIQUID WRENCH UNIVERSAL CHAIN LUBE*

MSDS No.: L706

Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
Aliphatic Hydrocarbon Solvent	100 ppm	100 ppm	Not Available
Ethylene/Propylene Co-Polymer	N/E	N/E	Not Available
1,2,4-Trimethylbenzene	N/E	25 ppm	Not Available
Mesitylene	N/A	N/A	Not Available
Xylene (mixed isomers)	100 ppm	100 ppm	Not Available
Carbon dioxide	N/AV	5000 ppm	Not Available
Ethylbenzene	100 ppm	100 ppm	Not Available
Petroleum Oil	5 mg/m3	5 mg/m3	Not Available
Zinc Compound	N/E	N/E	Not Available
Butene, homopolymer	N/E	N/E	Not Available
Naphthenic Petroleum Distillate	5 mg/m3	5 mg/m3	Not Available
Molybdenum, bis carbamodithioate oxo thioxo complexes	5 mg/m3	10 mg/m3	Not Available

Engineering Controls:

See above Section for applicable exposure limits. Use with adequate ventilation. If TLV is exceeded, wear NIOSH approved respirator.

Personal Protective Equipment:

For prolonged exposure wear protective safety glasses, gloves, and apron.

Physical and Chemical Properties:

Boiling Point: 315°F	Melting Point: N/A
Boiling Range: Not Available	Freezing Point: Not Available
Solubility in Water: Insoluble	Evaporation Rate (Butyl Acetate = 1): N/D
Flash Point: 110°F	Flash Point Method: TCC
Odor Threshold: Not Available	Appearance and Odor: Clear bright yellow with petroleum odor
Vapor Density (AIR = 1): N/D	Vapor Pressure (mm Hg.): N/D
pH Range: Not Available	Partition Coefficient: Not Available
Decomposition Temp: Not Available	Auto-Ignition Temp: Not Available
Lower Explosive Limit: N/D	Upper Explosive Limit: N/D
Specific Gravity (H2O = 1): 0.87	
Other Information: N/D	

Stability and Reactivity:

Stability:

Stable

Conditions to Avoid:

See Incompatible Materials below.

Incompatible Materials:

Oxidizing agents and acids.

Hazardous Decomposition Products:

Normal products of combustion: Carbon dioxide, carbon monoxide, smoke, nitrogen and sulfur oxides

Possibility of Hazardous Reactions:

Will not occur

MSDS - Material Safety Data Sheet**Product Name: LIQUID WRENCH UNIVERSAL CHAIN LUBE****MSDS No.: L706****XI. Toxicological Information**

N/D

XII. Ecological Information

N/D

XIII. Disposal Considerations

DISPOSAL: This container may be recycled in aerosol recycling centers when empty. Before offering for recycling, empty the can by using the product according to the label. DO NOT PUNCTURE! If recycling is not available, wrap the container and discard in the trash. Dispose of unused product in accordance with all local, state government and federal laws and regulations.

XIV. Transport Information**Shipping Name:** Not Available**DOT Hazard Class:** Not Available**UN/NA#:** Not Available**DOT Subsidiary Hazard Class:** Not Available**Packing Group:** Not Available**Transportation Information:**

DOT Hazard Class: ORM-D

Shipping Name: Consumer Commodity

The DOT description is provided to assist in the proper shipping classification of this product and may not be suitable for international and air shipping purposes.

ICAO/IATA (US)

Shipping Name: Aerosols

Class: 2.1

UN number: UN1950

International:

ICAO/IATA

UN number: UN1950

Shipping Name: Aerosols

Class: 2.1

IMDG

UN number: UN1950

Shipping Name: Aerosols

Class: 2.1

EmS: F-D, S-U

XV. Regulatory Information

SARA 313 Reportable Chemicals:

1,2,4-Trimethylbenzene (95-63-6)

Ethylbenzene (100-41-4)

Xylene (1330-20-7)

Zinc Dithiophosphate (19210-06-1)

USA TSCA: All components of this material are listed on the US TSCA Inventory.

Warning: This product contains a chemical(s) known to the State of California to cause cancer or birth defects or other reproductive harm.

State RTK Chemicals:

Ethylbenzene (100-41-4)

Xylene (1330-20-7)

Carbon dioxide (124-38-9)

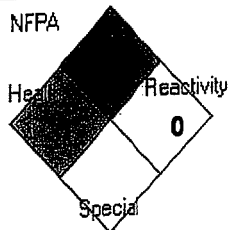
MSDS - Material Safety Data Sheet

Product Name: LIQUID WRENCH UNIVERSAL CHAIN LUBE

MSDS No.: L706



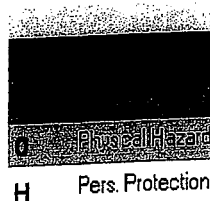
- Chemical State:** Liquid Gas Solid
- Chemical Type:** Pure Mixture
- Hazard Category:**
- Acute Chronic Fire Pressure Reactive



Additional Manufacturer Warnings:

Do not use in confined area without proper ventilation. Contact lenses may cause further damage in case of splash into eye. KEEP AWAY FROM CHILDREN AND ANIMALS!

- N/E: Not Established
- N/D: Not Determined
- N/A: Not Applicable
- N/AV: Not Available



H Pers. Protection

Additional Product Information:

While Radiator Specialty Company believes this data is accurate as of the revision date, we make no warranty with respect to the data and we expressly disclaim all liability for reliance thereon. The data is offered solely for information, investigation, and verification. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this MSDS. The user is responsible for full compliance.

80-612

LPS 1 - GREASELESS LUBRICANT

HMIS RATING	
Health	1
Flammability	2
Reactivity	2

MATERIAL SAFETY DATA SHEET

NFPA 704 RATING	
Health	1
Flammability	2
Reactivity	0
NFPA 30B LEVEL	
Level 3	

KIMBALL-MIDWEST
P.O. BOX 2470
COLUMBUS, OH 43216-2470
CORPORATE TELEPHONE: 614-219-6100
EMERGENCY TELEPHONE: 800-424-9300

1. PRODUCT IDENTIFICATION

PART NUMBER80-612
PRODUCT NAME LPS 1 - Greaseless Lubricant
CHEMICAL FAMILY Petroleum Hydrocarbons
DOT SHIPPING Consumer Commodity ORM-D

2. HAZARDOUS INGREDIENTS

SPECIFIC CHEMICAL IDENTITY, COMMON NAMES	OSHA PEL	ACGIH TLV	REL	%
Distillates (Petroleum), Hydrotreated Light (64742-47-8)				70-80
Distillates (Petroleum), Hydrotreated Middle (64742-30-9)				20-30
Carbon Dioxide Propellant (aerosol only) (124-38-9)	1000ppm	5000ppm	3000ppm	1-5

All chemical compounds marked with an asterisk (*) are toxic chemicals subject to the reporting of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372. You must notify each person to whom this mixture of trade name product is sold. This statement must not be detached. Any copy or redistribution of this Material Safety Data Sheet shall include this statement. **Celling

3. PHYSICAL DATA

BOILING POINT (RANGE)..... 213°C
VAPOR PRESSURE PSIG @ 20°C < 0.05 mm Hg
VAPOR DENSITY (AIR = 1) >1
SOLUBILITY IN WATER..... Not soluble in water
SPECIFIC GRAVITY (H₂O = 1)..... 0.79-0.81
MELTING/FREEZING POINT..... -50°C
EVAPORATION RATE (61%=1)..... <0.1
VOC content (by weight) <25%, 0 g/L per CARB
APPEARANCE AND ODOR..... Pale Amber liquid/ Solvent Odor

4. FIRE AND EXPLOSION DATA

FLASH POINT 174°F TCC
UPPER EXPLOSIVE LIMIT (%) 7
LOWER EXPLOSIVE LIMIT (%) 0.6
EXTINGUISHING MEDIA..... Dry chemical powder, water spray, fog or foam. Coll containing vessels with water jet in order to prevent pressure build-up, auto ignition or explosions.
SPECIAL FIREFIGHTING PROCEDURES..... Fire fighters should wear self-contained breathing apparatus and full protective gear. Avoid breathing vapors, gases and fumes. If safe to do so, shut off all gas pilot lights and electrical (spark or hot-wire) igniters and other sources of ignition.
FIRE AND EXPLOSION HAZARDS Aerosols may explode upon heating, spread fire and overcome sprinkler systems.

5. HEALTH EFFECTS DATA**SHORT TERM EFFECTS OF EXPOSURE**

ROUTE OF ENTRY Skin and/or eye contact. Inhalation.
HEALTH HAZARDS (ACUTE AND CHRONIC)..... Stinging in eyes. Repeated or prolonged skin contact can cause redness, irritation and scaling of the skin (dermatitis). Breathing of high vapor concentrations may cause headaches, stupor, irritation of throat and eyes, and kidney effects.
EYE CONTACT..... Irritating to eyes.
SKIN CONTACT..... Repeated exposure may cause skin dryness or cracking.
INHALATION Excessive inhalation of vapors can cause irritation of the respirator tract, nausea, dizziness or headache.
INGESTION..... Product has a low odor of acute oral toxicity, but ingestion of large quantities may cause nausea. Vomiting, and gastrointestinal irritation. may cause injury if aspirated into lungs.

5. HEALTH EFFECTS DATA CON'T

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE..... Persons with preexisting central nervous system disease, neurological conditions, skin disorders, chronic respiratory diseases or impaired liver or kidney function should avoid exposure.

FIRST AID PROCEDURES

EYE CONTACT Hold eyelids apart and immediately flush eyes with plenty of luke warm, gently flowing water for at least 15 minutes. Get medical attention.
SKIN CONTACT Remove contaminated clothing and shoes. Wash affected areas with soap and water. Wash clothing before reuse. Seek medical attention if irritation persists.
INGESTION Contact physician or poison control center. Do not induce vomiting, unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Do not leave victim unattended.
INHALATION Remove the person away from exposure to fresh air, consult doctor in case of complaints. If breathing has stopped give artificial respiration.

SPECIAL HEALTH EFFECTS

CARCINOGEN (OSHA Guidelines) None Listed

6. REACTIVITY

STABILITY Stable
INCOMPATIBILITIES Extremely reactive or incompatible with oxidizing agents.

HAZARDOUS DECOMPOSITION

PRODUCTS These products are carbon oxides (CO₂, CO₂).

HAZARDOUS POLYMERIZATION..... Will not occur under normal conditions.

HAZARDOUS POLYMERIZATION CONDITIONS..... None known.

7. PRECAUTIONS FOR SAFE HANDLING & USE

PROTECTIVE EQUIPMENT REQUIREMENTS..... Tightly sealed goggles and protective gloves. Local exhaust ventilation may be necessary to control air contaminants to within TLVs during the use of this product.
WASH REQUIREMENTS..... Wash with soap and water.
SPILL OR LEAK PROCEDURES Absorb with an inert material and dispose of properly.
WASTE DISPOSAL METHODS Do not allow to reach sewage systems or groundwater. Dike far ahead of a liquid spill to ensure complete collection. Dispose of in accordance with local, state, and federal regulations.
HANDLING & STORAGE..... Do not allow to freeze. Avoid temperatures above 120°F
OTHER PRECAUTIONS Use NIOSH approved respirator with an organic vapor cartridge; avoid prolonged breathing of vapors; protection provided by air purifying respirators is limited.

8. ADDITIONAL INFORMATION

Use self-contained breathing apparatus if TLV limits are exceeded. Do not eat or smoke while using. Wash hands after use. Use positive pressure air supplied respirator if there is potential for uncontrolled release, if exposure levels are unknown, or in any circumstance where air purifying respirators may not provide adequate protection.

THE INFORMATION GIVEN AND THE RECOMMENDATIONS MADE HEREIN APPLY TO OUR PRODUCT(S) ALONE AND ARE NOT COMBINED WITH OTHER PRODUCTS. SUCH INFORMATION IS BASED UPON OUR RESEARCH AND ON DATA FROM OTHER RELIABLE SOURCES AND IS BELIEVED TO BE ACCURATE. NO GUARANTEE OF ACCURACY IS MADE. IT IS THE PURCHASER'S RESPONSIBILITY BEFORE USING ANY PRODUCT TO VERIFY THIS DATA UNDER THEIR OWN OPERATING CONDITIONS AND TO DETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR PURPOSES.

**KIMBALL
MIDWEST**

Specializing in Materials Management since 1921

NO. 105 MOTOR ASSEMBLY GREASE

80-793

HMIS RATING	
Health	1
Flammability	1
Reactivity	0

MATERIAL SAFETY DATA SHEET

NFPA 704 RATING	
Health	N/A
Flammability	N/A
Reactivity	N/A
NFPA 308 LEVEL	
N/A	

KIMBALL-MIDWEST
P.O. BOX 2470
COLUMBUS, OH 43216-2470
CORPORATE & EMERGENCY TELEPHONE: 800-424-9300

1. PRODUCT IDENTIFICATION

PART NUMBER.....80-793
PRODUCT NAME.....No. 105 Motor Assembly Grease, 14 oz. can
CHEMICAL FAMILY.....N/A
DOT SHIPPING.....Consumer Commodity ORM-D

2. HAZARDOUS INGREDIENTS

SPECIFIC CHEMICAL IDENTITY, COMMON NAMES	OSHA PEL	ACGIH TLV	STEL	%
Mineral Oil (64742-52-5)	N/A	N/A	N/A	80-90
Calcium Thickeners (68309-87-5)	N/A	N/A	N/A	5-10
Zinc Oxide (1314-13-2)	N/A	N/A	N/A	0-5

All chemical compounds marked with an asterisk (*) are toxic chemicals subject to the reporting of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372. You must notify each person to whom this mixture of trade name product is sold. This statement must not be detached. Any copy or redistribution of this Material Safety Data Sheet shall include this statement.

3. PHYSICAL DATA

BOILING POINT (RANGE).....>550°F
VAPOR PRESSURE mmHg @ 70°F.....<0.01
VAPOR DENSITY (AIR = 1).....>5
SOLUBILITY IN WATER.....Negligible
SPECIFIC GRAVITY (H₂O = 1).....0.89-0.93
MELTING/FREEZING POINT.....Semi-solid
EVAPORATION RATE (Butyl Acetate=1).....<0.01
% VOC content (by weight).....N/A
APPEARANCE AND ODOR.....Smooth white grease/mineral oil odor

4. FIRE AND EXPLOSION DATA

FLASH POINT.....360°F COC
UPPER EXPLOSIVE LIMIT (%).....7.0
LOWER EXPLOSIVE LIMIT (%).....0.9
EXTINGUISHING MEDIA.....Dry chemical, CO₂, water fog
SPECIAL FIREFIGHTING PROCEDURES.....Firefighters should wear NIOSH approved positive pressure self-contained breathing apparatus.
FIRE AND EXPLOSION HAZARDS.....Do not store or mix with strong oxidants. Empty containers retain residue. Do not cut, drill, grind, or weld, as they may explode.

5. HEALTH EFFECTS DATA

SHORT TERM EFFECTS OF EXPOSURE

ROUTE OF ENTRY.....Skin, Ingestion, Eyes, Inhalation
HEALTH HAZARDS (ACUTE AND CHRONIC).....Prolonged or repeated skin contact may cause skin irritation. Product contacting the eyes may cause eye irritation. Human health risks vary from person to person. As a precaution, exposure to liquids, vapors, mists and fumes should be minimized. This product has a low order of acute oral toxicity, but minute amounts aspirated into the lungs during ingestion may cause mild to severe pulmonary injury.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE.....N/A

5. HEALTH EFFECTS DATA (CONTINUED)

FIRST AID PROCEDURES

EYES.....Flush with water for at least 15 minutes
SKIN CONTACT.....Remove any contaminated clothing and wash with soap and warm water. If injected by high pressure under skin, regardless of the appearance or size, contact a physician IMMEDIATELY. Delay may cause loss of affected part of the body.
INGESTION.....Do not induce vomiting; keep individual calm; obtain medical attention.
INHALATION.....Remove to fresh air.

SPECIAL HEALTH EFFECTS

CARCINOGEN (OSHA Guidelines).....Presently not on any list.

6. REACTIVITY

STABILITY.....Stable
INCOMPATIBILITIES.....Strong oxidants (liquid chlorine, concentrated oxygen)
HAZARDOUS DECOMPOSITION PRODUCTS.....May form sulfur dioxide. If incomplete combustion, carbon monoxide.
HAZARDOUS POLYMERIZATION.....Will not occur
HAZARDOUS POLYMERIZATION CONDITIONS.....None known
NFPA REACTIVITY HAZARD.....0

7. PRECAUTIONS FOR SAFE HANDLING & USE

PROTECTIVE EQUIPMENT REQUIREMENTS.....Safety glasses, ventilation sufficient to maintain vapor concentrations below TLV; oil resistant gloves and apron
WASH REQUIREMENTS.....Wash with soap and water
SPILL OR LEAK PROCEDURES.....Use absorbent sweeping compound to soak up material, put into container, dispose as hazardous waste; keep out of waterways and sewers
WASTE DISPOSAL METHODS.....Dispose as hazardous waste in accordance with EPA RCRA
HANDLING & STORAGE.....Store below 120°F. Keep away from heat, sparks, or open flame
OTHER PRECAUTIONS.....When spraying more than half a can continuously or more than one can consecutively, use NIOSH approved respirator

8. ADDITIONAL INFORMATION

Use self-contained breathing apparatus if TLV limits are exceeded. Do not eat or smoke while using. Wash hands after use.

THE INFORMATION GIVEN AND THE RECOMMENDATIONS MADE HEREIN APPLY TO OUR PRODUCT(S) ALONE AND ARE NOT COMBINED WITH OTHER PRODUCTS. SUCH INFORMATION IS BASED UPON OUR RESEARCH AND ON DATA FROM OTHER RELIABLE SOURCES AND IS BELIEVED TO BE ACCURATE. NO GUARANTEE OF ACCURACY IS

KIMBALL MIDWEST

Specializing in Materials Management since 1923

MARVEL AIR TOOL OIL

80-120

80-121

Health	2
Flammability	2
Reactivity	0

MATERIAL SAFETY DATA SHEET

NFPA 704 RATING	
Health	2
Flammability	2
Reactivity	0
NFPA 30B LEVEL	
N/A	

KIMBALL-MIDWEST
P.O. BOX 2470
COLUMBUS, OH 43216-2470
CORPORATE TELEPHONE: 614-219-6100
EMERGENCY TELEPHONE: 800-424-9300

1. PRODUCT IDENTIFICATION

PART NUMBER.....80-120, 4 oz.; 80-121, Qt
PRODUCT NAME.....MARVEL AIR TOOL OIL
CHEMICAL FAMILY.....Aliphatic and aromatic hydrocarbons
DOT Shipping.....Not Regulated

2. HAZARDOUS INGREDIENTS

SPECIFIC CHEMICAL IDENTITY, COMMON NAMES	OSHA PEL	ACGIH TLV	STEL	%
Naphthalenic Hydrocarbons (64742-52-2)	5ppm	5ppm	-	70-80
Mineral Spirits (08052-41-3)	100ppm	100ppm	-	20-30
*Chlorinated Hydrocarbons (00095-50-1)	25ppm	25ppm	-	0-1

All chemical compounds marked with an asterisk (*) are toxic chemicals subject to the reporting of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372. You must notify each person to whom this mixture of trade name product is sold. This statement must not be detached. Any copy or redistribution of this Material Safety Data Sheet shall include this statement. **Ceiling

3. PHYSICAL DATA

BOILING POINT (RANGE).....N/A
VAPOR PRESSURE mmHg @ 100°F.....N/D
VAPOR DENSITY (AIR = 1).....N/D
SOLUBILITY IN WATER.....Insoluble
SPECIFIC GRAVITY (H₂O = 1).....0.876
MELTING/FREEZING POINT.....-60°F
EVAPORATION RATE (Ether=1).....N/A
VOC content (by weight).....25%
APPEARANCE AND ODOR.....Thin Red liquid/petroleum odor

4. FIRE AND EXPLOSION DATA

FLASH POINT.....128°F TCC
UPPER EXPLOSIVE LIMIT (%).....N/D
LOWER EXPLOSIVE LIMIT (%).....N/D
EXTINGUISHING MEDIA.....Carbon Dioxide, dry chemical, foam.
SPECIAL FIREFIGHTING PROCEDURES.....Firefighters should wear NIOSH approved positive pressure self-contained breathing apparatus
UNUSUAL FIRE AND EXPLOSION HAZARDS.....None

5. HEALTH EFFECTS DATA

SHORT TERM EFFECTS OF EXPOSURE

ROUTE OF ENTRY.....Skin Absorption
HEALTH HAZARDS (ACUTE AND CHRONIC).....Vapors may be irritating to eyes and respiratory tract. Overexposure may cause Nervous system damage, lung damage, kidney damage.
INHALATION.....Can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and even asphyxiation.
EYE CONTACT.....May cause severe irritation, redness, tearing or blurred vision.
SKIN CONTACT.....Prolonged contact may cause skin irritation, defatting and dermatitis.
INGESTION.....Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration into lungs and can cause pneumonia which can be fatal.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE.....Dermatitis

5. HEALTH EFFECTS DATA CON'T.

FIRST AID PROCEDURES

SKIN CONTACT.....Wash with soap, large volumes of water; get medical attention immediately.
INGESTION.....Do not induce vomiting. Obtain medical attention immediately. Give victim a glass of water or milk. Never give anything by mouth to an unconscious person.
INHALATION.....Remove to fresh air, apply artificial respiration if needed. Obtain medical attention if symptoms persist.
EYE CONTACT.....Flush with water for at least 15 minutes; obtain medical attention.

SPECIAL HEALTH EFFECTS
CARCINOGEN (OSHA Guidelines).....This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

6. REACTIVITY

STABILITY.....Stable
INCOMPATIBILITIES.....Strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS.....Carbon Monoxide, carbon dioxide and hydrocarbons.
HAZARDOUS POLYMERIZATION.....Will not occur under normal conditions.
HAZARDOUS POLYMERIZATION CONDITIONS.....None known.

7. PRECAUTIONS FOR SAFE HANDLING & USE

PROTECTIVE EQUIPMENT REQUIREMENTS.....Tightly sealed goggles with a protective shield and protective gloves. Local exhaust ventilation may be necessary to control air contaminants to within TLVs during the use of this product.
WASH REQUIREMENTS.....Wash with soap and water.
SPILL OR LEAK PROCEDURES.....Remove sources of ignition. Absorb spill with inert material (e.g. dry sand or earth), then place in chemical waste container.
WASTE DISPOSAL METHODS.....Dispose of in accordance with local, state, and federal regulations.
HANDLING & STORAGE.....Empty containers may be dangerous since fumes may still exist. Store below 120°F.
OTHER PRECAUTIONS.....Containers of this product may be hazardous when emptied, since they contain product residue, observe all precautions. Use NIOSH approved respirator with an organic vapor cartridge; avoid prolonged breathing of vapors; protection provided by air purifying respirators is limited.

8. ADDITIONAL INFORMATION

Use self-contained breathing apparatus if TLV limits are exceeded. Do not eat or smoke while using. Wash hands after use. Use positive pressure air supplied respirator if there is potential for uncontrolled release, if exposure levels are unknown, or in any circumstance where air purifying respirators may not provide adequate protection.

THE INFORMATION GIVEN AND THE RECOMMENDATIONS MADE HEREIN APPLY TO OUR PRODUCT(S) ALONE AND ARE NOT COMBINED WITH OTHER PRODUCTS. SUCH INFORMATION IS BASED UPON OUR RESEARCH AND ON DATA FROM OTHER RELIABLE SOURCES AND IS BELIEVED TO BE ACCURATE. NO GUARANTEE OF ACCURACY IS MADE. IT IS THE PURCHASER'S RESPONSIBILITY BEFORE USING ANY PRODUCT TO VERIFY THIS DATA UNDER THEIR OWN OPERATING CONDITIONS AND TO DETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR PURPOSES.

KIMBALL MIDWEST

Specializing in Materials Management since 1929

Permatex, Inc.
 Columbus Blvd.
 Hartford, CT 06106 USA
 Telephone: 1-87-Permatex
 (877) 376-2839
 Emergency: 800-255-3924
 International Emergency: +01-813-248-0585

Material Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name: 133K ANTI-SEIZE LUBRICANT 8OZ
Item No: 80078
Product Type: Lubricant

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	ACGIH; TLV-TWA	OSHA PEL
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC 64742-52-5	20-40	Not listed	Not listed
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC 64742-53-6	20-40	5 mg/m ³ TWA ACGIH	Not listed
CALCIUM OXIDE 1305-78-8	15-25	2 mg/m ³	5 mg/m ³
ALUMINIUM POWDER 30-5	<10	1 mg/m ³	15 mg/m ³
...WHITE 32-42-5	<10	2 mg/m ³	15 mppcf
MINERAL OIL 64741-44-2	<5	5 mg/m ³	Not listed

3. HAZARDS IDENTIFICATION

Toxicity: May cause eye and skin irritation. May cause nose, throat and respiratory irritation. May cause gastrointestinal irritation. High concentrations may cause central nervous system (CNS) depression.
 Eye and skin contact, ingestion, inhalation

Primary Routes of Entry: Eye and skin contact, ingestion, inhalation

Signs and Symptoms of Exposure: Overexposure may cause eye and skin redness, difficulty breathing and vomiting. Excessive accidental exposure may cause headache, dizziness, nausea and mild respiratory irritation. Inhalation of dust at levels above recommended exposure limit may cause metallic or sweet taste, irritation of pharynx and possible ulceration with perforation of the nasal septum.

Medical Conditions Recognized as Being Aggravated by Exposure: Persons with respiratory problems such as emphysema and asthma should avoid inhalation. Since this product contain copper compounds, individuals with Wilson's Disease should avoid exposure to this product.

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: Move to fresh air in case of accidental inhalation of vapours. If symptoms persist, call a physician.

Skin Contact: Wash off with soap and water. If skin irritation persists, call a physician.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flash Point °F(C°): >200° F TCC

Recommended Extinguishing Media: Carbon Dioxide, Dry Chemicals, Foam.

Special Fire-Fighting Procedures: Firefighters should wear self-contained breathing apparatus. Water spray may be ineffective on flames but should be used to keep fire-exposed containers cool.

Hazardous Products of Combustion: Oxides of carbon, Metal oxide fumes

Unusual Fire/Explosion Hazards: May ignite when sufficient heat is applied.

Product Name: 133K ANTI-SEIZE LUBRICANT 8OZ

6. FIRE FIGHTING MEASURES

Lower Explosive Limit: 30% aluminum metal; 1% oil
 Upper Explosive Limit: 7% oil

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Eliminate all sources of ignition. Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal.

7. HANDLING AND STORAGE

Storage: Store away from heat, sparks or open flame. Do not store at temperatures above 100°F (38°C).
 Handling: Avoid prolonged skin contact. Keep away from eyes. Do not inhale vapors. Do not use near heat, sparks or open flame. Wash hands and face after handling this compound.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Safety glasses.
 Skin: Neoprene or nitrile gloves recommended.
 Ventilation: General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product.
 Respiratory Protection: An approved organic vapor respirator should be worn when exposures are expected to exceed the applicable limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Silver paste
 Odor: Petroleum distillates
 Boiling Point: Not determined
 pH: Does not apply
 Solubility in Water: Nil
 Specific Gravity: 1.17
 Viscosity (Wt.%): None
 Vapor Pressure: <5 mm Hg
 Vapor Density (Air=1): <1
 Evaporation Rate: <1 (butyl acetate = 1)

10. STABILITY AND REACTIVITY

Chemical Stability: Stable at normal conditions
 Hazardous Polymerization: Will not occur.
 Incompatibilities: Strong oxidizers, alkalies, mineral acids, selected amines.
 Conditions to Avoid: Heat.
 Hazardous Products of Combustion: Oxides of carbon, Metal oxide fumes

11. TOXICOLOGICAL INFORMATION

See Section 3

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended Method of Disposal: Disposal should be made in accordance with federal, state and local regulations..
 US EPA Waste Number: NH - Not a RCRA Hazardous Waste Material

14. TRANSPORTATION INFORMATION

DOT (49CFR 172)

Ground Transport (DOT)

DOT Shipping Name: Not Regulated
 Hazard Class: None
 UN/ID Number: None

IATA

Proper Shipping Name: Not regulated
 Class or Division: None

Item No: 80078

Product Name: 133K ANTI-SEIZE LUBRICANT 8OZ

TRANSPORTATION INFORMATION

UN/ID Number: None

IMDG

Proper Shipping: Not regulated
Hazard Class: None
UN Number: None
Marine Pollutant: None

REGULATORY INFORMATION

SARA 313 Chemicals: The following component(s) is listed as a SARA Section 313 Toxic Chemical.

NONE
California Proposition 65: No California Prop 65 chemicals are known to be present at or above the No Significant Risk Level

TSCA Inventory Status: All components of this product are listed (or exempt) on the EPA TSCA inventory.

OTHER INFORMATION

Estimated NFPA Rating: HEALTH 1, FLAMMABILITY 1 REACTIVITY 1.
Estimated HMIS Classification: HEALTH 1, FLAMMABILITY 1, PHYSICAL HAZARD 0
NFPA is a registered trademark of the National Fire Protection Assn.
HMIS is a registered trademark of the National Paint and Coatings Assn.

Prepared By: Denise Boyd, Manager-Environmental, Health & Safety
Company: Permatex, Inc. 10 Columbus Blvd. Hartford, CT USA 06106
Telephone No.: 1-87-Permatex (877) 376-2839

Revision Date: April 28, 2009
Revision Number: 2

Permatex, Inc.
 Columbus Blvd.
 Hartford, CT 06106 USA
 Telephone: 1-87-Permatex
 (877) 376-2839
 Emergency: 800-255-3924
 International Emergency: +01-813-248-0585

Material Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name: DIELECTRIC TUNE-UP GREASE 3 OZ
Item No: 22058
Product Type: Lubricant

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	ACGIH; TLV-TWA	OSHA PEL
POLYDIMETHYLSILOXANE 63148-62-9	>70	Not listed	Not listed
MODIFIED SILICON DIOXIDE 68611-44-9	<10	Not listed	Not listed
OXIRANE, METHYL-, POLYMER 52624-57-4	0.5-5.0	Not listed	Not listed

3. HAZARDS IDENTIFICATION

Toxicity: May cause eye and skin irritation. Note: This product does not contain microcrystalline silica.
Primary Routes of Entry: Eye and skin contact, ingestion, inhalation
Effects and Symptoms of Exposure: Overexposure may cause eye and skin redness.
Medical Conditions Recognized as Being Aggravated by Exposure: None known.

4. FIRST AID MEASURES

Ingestion: If swallowed, DO NOT induce vomiting. Keep individual calm. Obtain medical attention.
Inhalation: Move to fresh air in case of accidental inhalation of vapours.
Skin Contact: Wash off with soap and water. If skin irritation persists, call a physician.
Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flash Point °F(C°): >200°F TCC
Recommended Extinguishing Media: Carbon Dioxide, Dry Chemicals, Foam.
Special Fire-Fighting Procedures: No special procedures.
Hazardous Products of Combustion: Oxides of carbon, Oxides of silicon, Formaldehyde
Unusual Fire/Explosion Hazards: None.
Lower Explosive Limit: Not determined
Upper Explosive Limit: Not determined

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal. Clean up spills thoroughly as residue is slippery.

7. HANDLING AND STORAGE

Storage: Store below 100°F.
Handling: Avoid prolonged skin contact. Keep away from eyes.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Safety glasses.
Skin: Neoprene or nitrile gloves recommended.

Product Name: DIELECTRIC TUNE-UP GREASE 3 OZ

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product.

Respiratory Protection: Not required under normal use. In case of insufficient ventilation, wear suitable respiratory equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White, translucent grease

Odor: Mild

Boiling Point: Not determined

pH: Does not apply

Solubility in Water: Nil

Specific Gravity: 1.0

VOC(Wt.%): 0

Vapor Pressure: Not determined

Vapor Density (Air=1): Heavier than air

Evaporation Rate: <1 (butyl acetate =)

10. STABILITY AND REACTIVITY

Chemical Stability: Stable at normal conditions

Hazardous Polymerization: Will not occur.

Incompatibilities: Acids, Strong oxidizers, Reducing agents

Conditions to Avoid: Heat.

Hazardous Products of Combustion: Oxides of carbon, Oxides of silicon, Formaldehyde

11. TOXICOLOGICAL INFORMATION

See Section 3

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended Method of Disposal: Disposal should be made in accordance with federal, state and local regulations.

US EPA Waste Number: NH - Not a RCRA Hazardous Waste Material

14. TRANSPORTATION INFORMATION**DOT (49CFR 172)****Ground Transport (DOT)**

DOT Shipping Name: Not Regulated

Hazard Class: None

UN/ID Number: None

IATA

Proper Shipping Name: Not regulated

Class or Division: None

UN/ID Number: None

IMDG

Proper Shipping: Not regulated

Hazard Class: None

UN Number: None

Marine Pollutant: None

15. REGULATORY INFORMATION

SARA 313 Chemicals: The following component(s) is listed as a SARA Section 313 Toxic Chemical.

NONE

California Proposition 65: No California Prop 65 chemicals are known to be present at or above the No Significant Risk Level

TSCA Inventory Status: All components of this product are listed (or exempt) on the EPA TSCA inventory.

Item No: 22058

Product Name: DIELECTRIC TUNE-UP GREASE 3 OZ

16. OTHER INFORMATION

Estimated NFPA Rating: HEALTH 1, FLAMMABILITY 1, REACTIVITY 0.
Estimated HMIS Classification: HEALTH 1, FLAMMABILITY 1, PHYSICAL HAZARD 0
NFPA is a registered trademark of the National Fire Protection Assn.
HMIS is a registered trademark of the National Paint and Coatings Assn.

Prepared By: Denise Boyd, Manager-Environmental, Health & Safety
Company: Permatex, Inc. 10 Columbus Blvd. Hartford, CT USA 06106

Revision Date: March 05, 2010
Revision Number: 2

Telephone No.: 1-87-Permatex (877) 376-2839

OATEY CLEANER

80-041

HMIS RATING	
Health	3
Flammability	0
Reactivity	3

MATERIAL SAFETY DATA SHEET

NFPA 704 RATING	
Health	1
Flammability	3
Reactivity	0
NFPA 30B LEVEL	
N/A	

KIMBALL-MIDWEST
P.O. BOX 2470
COLUMBUS, OH 43216-2470
CORPORATE TELEPHONE: 614-219-6100
EMERGENCY TELEPHONE: 800-424-9300

1. PRODUCT IDENTIFICATION

PART NUMBER 80-041
PRODUCT NAME Oatey Cleaner-4 oz.
CHEMICAL FAMILY PVC Organisol
DOT SHIPPING Consumer Commodity ORM-D

2. HAZARDOUS INGREDIENTS

SPECIFIC CHEMICAL IDENTITY, COMMON NAMES	OSHA PEL	ACGIH TLV	STEL	%
Acetone (67-64-1)	1000ppm	500ppm	750ppm	20-40
*Methyl Ethyl Ketone (78-93-3)	200ppm	200ppm		60-80

All chemical compounds marked with an asterisk (*) are toxic chemicals subject to the reporting of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372. You must notify each person to whom this mixture of trade name product is sold. This statement must not be detached. Any copy or redistribution of this Material Safety Data Sheet shall include this statement. **Ceiling

3. PHYSICAL DATA

BOILING POINT (RANGE) 133°F
VAPOR PRESSURE PSIG @ 70°F 186
VAPOR DENSITY (AIR = 1) 2.0
SOLUBILITY IN WATER Negligible
SPECIFIC GRAVITY (H₂O = 1) 0.79±0.02
MELTING/FREEZING POINT N/A
EVAPORATION RATE (61%=1) 7.7
%OC content (by weight) 24.9%; 274 g/l
APPEARANCE AND ODOR Clear liquid/ ether-like odor

4. FIRE AND EXPLOSION DATA

FLASH POINT 0-3°F
UPPER EXPLOSIVE LIMIT (%) 11.5
LOWER EXPLOSIVE LIMIT (%) 1.8
EXTINGUISHING MEDIA Dry Chemical, CO₂ or foam.
SPECIAL FIREFIGHTING PROCEDURES Containers can build up pressure if exposed to heat (fire). As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.
FIRE AND EXPLOSION HAZARDS Extremely flammable liquid and vapor. Vapors may cause flash fire. This product contains tetrahydrofuran that may form explosive organic peroxide when exposed to air or light or with age. Combustion will produce toxic and irritating vapors including carbon monoxide, carbon dioxide and hydrogen chloride.

5. HEALTH EFFECTS DATA

SHORT TERM EFFECTS OF EXPOSURE

ROUTE OF ENTRY Skin absorption, Inhalation, Ingestion, Eye contact, Skin contact
HEALTH HAZARDS (ACUTE AND CHRONIC)
INHALATION May cause respiratory tract irritation and central nervous systems effects. May cause irritation to nose and throat. May cause kidney, liver and lung damage.
SKIN CONTACT May cause allergic skin reaction. May cause skin irritation. Methyl Ethyl Ketone is absorbed through the skin.
EYE CONTACT Vapors may irritate eyes. Contact with eyes will cause irritation.
INGESTION Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea, kidney and liver disorders. May be fatal if swallowed.
EXISTING CONDITIONS AGGRAVATED BY EXPOSURE Pre-existing skin, lung, kidney or liver disorders may be at increase risk from exposure to this product.

5. HEALTH EFFECTS DATA CONT.

FIRST AID PROCEDURES

EYE CONTACT If material gets into eyes or if fumes cause irritation, immediately flush eyes with water for 15 mins. If irritation persists, obtain medical attention.
SKIN CONTACT Remove contaminated clothing immediately. Wash area; exposed areas with soap and water. Get medical attention if irritation develops. Remove dried cement with baby oil.
INGESTION Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to a person who is unconscious or drowsy. Obtain medical attention immediately.
INHALATION Remove to fresh air, if breathing becomes difficult, administer oxygen.

SPECIAL HEALTH EFFECTS

CARCINOGEN (OSHA Guidelines) Warning: This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm. Under normal conditions, exposures to these chemical at levels above the State of California "No Significant Risk Level" (NSRL) are unlikely.

6. REACTIVITY

STABILITY Stable
INCOMPATIBILITIES Oxidizing agents, alkalies, amines, ammonia, acids, chloride compounds, chlorinated inorganics and hydrogen peroxides. May attack plastics, resin and rubber.
HAZARDOUS DECOMPOSITION
PRODUCTS Combustion will produce toxic and irritating vapors including carbon monoxide, carbon dioxide and hydrogen chloride.
HAZARDOUS POLYMERIZATION Will not occur under normal conditions.
HAZARDOUS POLYMERIZATION CONDITIONS None known.

7. PRECAUTIONS FOR SAFE HANDLING & USE

PROTECTIVE EQUIPMENT REQUIREMENTS Tightly sealed goggles and protective gloves. Local exhaust ventilation may be necessary to control air contaminants to within TLVs during the use of this product.
WASH REQUIREMENTS Wash with soap and water.
SPILL OR LEAK PROCEDURES Remove sources of ignition; Soak up with inert absorbent such as sand or earth. Put absorbent in covered, labeled metal containers.
WASTE DISPOSAL METHODS Dispose of in accordance with local, state, and federal regulations.
HANDLING & STORAGE Store in a cool, dry, well-ventilated area away from incompatible materials. Wash thoroughly after handling. Store below 90°F.
OTHER PRECAUTIONS Use NIOSH approved respirator with an organic vapor cartridge; avoid prolonged breathing of vapors; protection provided by air purifying respirators is limited.

8. ADDITIONAL INFORMATION

Use self-contained breathing apparatus if TLV limits are exceeded. Do not eat or smoke while using. Wash hands after use. Use positive pressure air supplied respirator if there is potential for uncontrolled release, if exposure levels are unknown, or in any circumstance where air purifying respirators may not provide adequate protection.

THE INFORMATION GIVEN AND THE RECOMMENDATIONS MADE HEREIN APPLY TO OUR PRODUCT(S) ALONE AND ARE NOT COMBINED WITH OTHER PRODUCTS. SUCH INFORMATION IS BASED UPON OUR RESEARCH AND ON DATA FROM OTHER RELIABLE SOURCES AND IS BELIEVED TO BE ACCURATE. NO GUARANTEE OF ACCURACY IS MADE. IT IS THE PURCHASER'S RESPONSIBILITY BEFORE USING ANY PRODUCT TO VERIFY THIS DATA UNDER THEIR OWN OPERATING CONDITIONS AND TO DETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR PURPOSES.

KIMBALL MIDWEST

Specializing in Materials Management since 1923

MATERIAL SAFETY DATA SHEET

DATE OF PREPARATION
Apr 3, 2010

DV6/DV12/DV16
03 00

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
DV6/DV12/DV16

PRODUCT NAME
OMNI-PAK® MasterBlend™ EZ TOUCH® (DV Cans)

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
KRYLON PRODUCTS GROUP
Cleveland, OH 44115

Telephone Numbers and Websites	
Product Information	(800) 251-2486 www.kpg-industrial.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
25	74-98-6	Propane	ACGIH TLV 2500 PPM OSHA PEL 1000 PPM	760 mm
65	67-64-1	Acetone	ACGIH TLV 500 PPM ACGIH TLV 750 PPM STEL OSHA PEL 1000 PPM	180 mm
9	78-93-3	Methyl Ethyl Ketone	ACGIH TLV 200 PPM ACGIH TLV 300 PPM STEL OSHA PEL 200 PPM OSHA PEL 300 PPM STEL	70 mm
1	763-69-9	Ethyl 3-Ethoxypropionate	ACGIH TLV Not Available OSHA PEL Not Available	1.11 mm

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
 INHALATION of vapor or spray mist.
 EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE
EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.

HMIS Codes	
Health	2
Flammability	4
Reactivity	0

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
 Prolonged overexposure to hazardous ingredients in Section 2 may cause adverse chronic effects to the following organs or systems:
 • the reproductive system

SIGNS AND SYMPTOMS OF OVEREXPOSURE
 Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
 Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
 None generally recognized.

CANCER INFORMATION
 For complete discussion of toxicology data refer to Section 11.

SECTION 4 — FIRST AID MEASURES

- EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.
- SKIN:** Wash affected area thoroughly with soap and water.
Remove contaminated clothing and laundry before re-use.
- INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.
- INGESTION:** Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	EXTINGUISHING MEDIA
Propellant < 0 °F	1.0	12.8	Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

- Containers may explode when exposed to extreme heat.
Application to hot surfaces requires special precautions.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

- Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE**STORAGE CATEGORY**

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

- Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.
During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.
Consult NFPA Code. Use approved Bonding and Grounding procedures.
Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION**PRECAUTIONS TO BE TAKEN IN USE**

- Use only with adequate ventilation.
Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.
Wash hands after using.

VENTILATION

- Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.
Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

- If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

PROTECTIVE GLOVES

- None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

- Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

- Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	5.80 lb/gal	694 g/l
SPECIFIC GRAVITY	0.70	
BOILING POINT	<0 - 342 °F	<-18 - 172 °C
MELTING POINT	Not Available	
VOLATILE VOLUME	100%	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	7.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)
 Volatile Weight 35.47% Less Water and Federally Exempt Solvents

SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

GAS No.	Ingredient Name			
74-98-6	Propane	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
67-64-1	Acetone	LC50 RAT	4HR	Not Available
		LD50 RAT		5800 mg/kg
78-93-3	Methyl Ethyl Ketone	LC50 RAT	4HR	Not Available
		LD50 RAT		2740 mg/kg
763-69-9	Ethyl 3-Ethoxypropionate	LC50 RAT	4HR	Not Available
		LD50 RAT		5000 mg/kg

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

US Ground (DOT)

May be classed as Consumer Commodity, ORM-D
 UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, (ERG#126)

Canada (TDG)

May be classed as Consumer Commodity, ORM-D

UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, (ERG#126)

IMO

May be shipped as Limited Quantity
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, Ems F-D, S-U, ADR (D)

SECTION 15 — REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
---------	-------------------	---------	-----------

No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

Permatex, Inc.
 Columbus Blvd.
 Hartford, CT 06106 USA
 Telephone: 1-87-Permatex
 (877) 376-2839
 Emergency: 800-255-3924
 International Emergency: +01-813-248-0585

Material Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name: SA-8 BATTERY CLEANER 5 OZ AE
Item No: 80369
Product Type: Aerosol cleaner

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	ACGIH; TLV-TWA	OSHA PEL
WATER 7732-18-5	>75	Not listed	Not listed
BUTANE 106-97-8	<7	1000 ppm	800 ppm; 1900 mg/m ³
2-BUTOXYETHANOL 111-76-2	<5	20 ppm	50 ppm; 240 mg/m ³
PROPANE 74-98-6	<5	1000 ppm	1000 ppm; 1800 mg/m ³

3. HAZARDS IDENTIFICATION

Specificity: Exposure to 2-butoxyethanol can cause nausea, dizziness, vomiting, malaise, incoordination, diarrhea, weakness, eye redness and swelling of conjunctiva.
 Eye and skin contact, ingestion, inhalation

Primary Routes of Entry: Excessive accidental exposure may cause headache, dizziness, nausea and mild respiratory irritation. May cause pain, redness or swelling of the eyes and excessive blinking and tear production. Skin: Exposure may cause mild skin irritation. Prolonged or repeated exposure may dry the skin. Symptoms may include redness, burning, drying, cracking and skin burns. Preexisting skin disorders may be aggravated by exposure. Skin absorption is possible, but harmful effects are not expected from this route under normal conditions of handling and use.

Signs and Symptoms of Exposure:

Component	Weight%	NTP	ACGIH Carcinogens	IARC
2-BUTOXYETHANOL 111-76-2	<5	male rat-no evidence; female rat-equivocal evidence; male mice- some evidence; female mice-some evidence	A3	Group 3; Monograph 88, 2006

Medical Conditions Recognized as Being Aggravated by Exposure: Persons with preexisting respiratory, liver, kidney, eye or skin diseases may be adversely affected.

4. FIRST AID MEASURES

Ingestion: If swallowed, DO NOT induce vomiting. Keep individual calm. Obtain medical attention.

Inhalation: Move to fresh air in case of accidental inhalation of vapours. If not breathing, give artificial respiration. Obtain medical attention.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flash Point °F(C°): No flame projection

Recommended Extinguishing Media: Carbon Dioxide, Dry Chemicals, Foam.

Special Fire-Fighting Procedures: Firefighters should wear self-contained breathing apparatus. Keep containers cool. Use equipment or shielding required to protect against bursting or venting of containers. Water spray may be ineffective on flames but should be used to keep fire-exposed containers cool.

Product Name: SA-8 BATTERY CLEANER 5 OZ AE

5. FIRE FIGHTING MEASURESHazardous Products of Combustion:
Unusual Fire/Explosion Hazards:Oxides of carbon
Contents under pressure. Exposure to temperatures over 120 degrees F. may cause bursting or venting. Keep containers cool. Use equipment or shielding to protect personnel from bursting containers.Lower Explosive Limit:
Upper Explosive Limit:Not determined
Not determined**6. ACCIDENTAL RELEASE MEASURES**

Spill Procedures:

Eliminate all sources of ignition. Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal.

7. HANDLING AND STORAGEStorage:
Handling:Store away from heat, sparks or open flame. Do not store at temperatures above 100°F (38°C).
Avoid contact with skin and eyes. Do not inhale vapors. Do not use near heat, sparks or open flame. Wash hands before eating and smoking.**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Eyes:
Skin:
Ventilation:Safety glasses.
Neoprene or nitrile gloves recommended.
General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product.
An approved organic vapor respirator should be worn when exposures are expected to exceed the applicable limits.

Respiratory Protection:

9. PHYSICAL AND CHEMICAL PROPERTIESAppearance:
Boiling Point:
pH:
Solubility in Water:
Specific Gravity:
VOC(Wt.%):
Vapor Pressure:
Vapor Density (Air=1):
Evaporation Rate:White foam
Solvent
>200°F
7.5-8.5
Soluble
0.95-1.05
13%
Not determined
>1
<1 (butyl acetate = 1)**10. STABILITY AND REACTIVITY**Chemical Stability:
Hazardous Polymerization:
Incompatibilities:
Conditions to Avoid:
Hazardous Products of Combustion:Stable at normal conditions
Will not occur.
Strong oxidizers
Keep away from heat, sparks and open flame.
Oxides of carbon**11. TOXICOLOGICAL INFORMATION**

See Section 3

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended Method of Disposal:

Disposal should be made in accordance with federal, state and local regulations.. This container may be recycled in aerosol recycling centers. Before offering for recycling, empty the can by using the product according to the label. If recycling is not available, wrap the container and discard in the trash.
D001 as per 40CFR 261.21

EPA Waste Number:

14. TRANSPORTATION INFORMATIONDOT (49CFR 172)
Ground Transport (DOT)

Item No: 80369

Product Name: SA-8 BATTERY CLEANER 5 OZ AE

14. TRANSPORTATION INFORMATION

DOT Shipping Name: Consumer Commodity (not more than one liter)
Hazard Class: ORM-D
UN/ID Number: None

IATA

Proper Shipping Name: Consumer Commodity (Not more than 1 liter)
Class or Division: Class 9
UN/ID Number: ID 8000

IMDG

Proper Shipping: Aerosols, Limited Quantity
Hazard Class: Class 2.2
UN Number: UN 1950
Marine Pollutant: None

15. REGULATORY INFORMATION

SARA 313 Chemicals: The following component(s) is listed as a SARA Section 313 Toxic Chemical.

2-Butoxyethanol

California Proposition 65: WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm

TSCA Inventory Status: All components of this product are listed (or exempt) on the EPA TSCA inventory.

16. OTHER INFORMATION

Estimated NFPA Rating: HEALTH 1, FLAMMABILITY 2, REACTIVITY 0.
Estimated HMIS Classification: HEALTH 1, FLAMMABILITY 2, PHYSICAL HAZARD 0
A is a registered trademark of the National Fire Protection Assn.
MILS is a registered trademark of the National Paint and Coatings Assn.

Prepared By: Denise Boyd, Manager-Environmental, Health & Safety
Company: Permatex, Inc. 10 Columbus Blvd. Hartford, CT USA 06106

Revision Date: January 22, 2010
Revision Number: 2

Telephone No.: 1-87-Permatex (877) 376-2839

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: **ALUMA PRO CLEANER / BRIGHTENER** VERSION 1 PG. 1
PRODUCT CODE: 2-4782 P/N 4782-4783-4787 DATE 4/22/2010
CHEMICAL FAMILY: ACIDIC CLEANER

SECTION I COMPANY INFORMATION

MANUFACTURER NAME: CUL-MAC INDUSTRIES
ADDRESS: 3720 S. VENOY RD.
WAYNE, MI 48184
PHONE: (800) 626-5089

SECTION II COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL	% by wt.	CAS #	OSHA PEL	ACGIH TLV
Phosphoric Acid	25.0 - 35.0	7664-38-2	1 mg/m ³	1 mg/m ³
n-butyl alcohol	<10.0	111-76-2	25 ppm TWA	25 ppm TWA

SECTION III HAZARDS IDENTIFICATION

ROUTES OF ENTRY: Skin, Eyes, Ingestion

HEALTH HAZARDS (acute & chronic): **SKIN** - Product is acidic and may cause burns to skin. **EYES** - May irritate and cause damage to eyes. **INGESTION** - If ingested, call a physician immediately. May damage throat area and gastro-respiratory tract.

CARCINOGENICITY: Not listed by OSHA, IARC, OR NTP

SECTION IV FIRST AID MEASURES

SKIN CONTACT: Remove contaminated clothing; wash under shower with soap and water for 15 minutes. Seek medical attention if irritation occurs.

EYE CONTACT: Flush immediately with gently running water for a minimum of 15 minutes. Seek medical attention

INGESTION: Seek medical attention immediately. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with head down. Do not induce or stop vomiting. If conscious, feed egg whites or large quantities of milk or water.

SECTION V FIRE & EXPLOSION DATA

FLASH POINT: N/A

EXTINGUISHING MEDIA: As for surrounding fire

SPECIAL PROCEDURES: None known

PRODUCT NAME: ALUMA PRO CLEANER / BRIGHTENER
 PRODUCT CODE: 2-4782 P/N 4782-4783-4787
 CHEMICAL FAMILY: ACIDIC CLEANER

VERSION 1
 DATE

PG. 2
 4/22/2010

SECTION VI ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Material can be slippery. Dike area and place absorbed material in proper containers for disposal. Prevent spills from entering storm sewers or drains.

SECTION VII PRECAUTIONS FOR SAFE HANDLING & STORAGE

WASTE DISPOSAL METHOD: Reuse or reprocess if possible. Dispose in accordance with all applicable regulations.

SPECIAL PRECAUTIONS: Handle in accordance with good industrial hygiene and safety precautions.

STORAGE: Store at room temperature. Seal container after use.

SECTION VIII CONTROL MEASURES - PERSONAL PROTECTION

VENTILATION: Use good general ventilation

RESPIRATORY PROTECTION: Not generally needed

GLOVES: Rubber gloves are recommended for sensitive skin.

EYE PROTECTION: Face shield and chemical splash goggles when transferring is taking place.

CLOTHING AND FOOTWEAR: Not generally needed

SECTION IX PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT	212° F	pH @ 1% solution	1.5
FREEZING POINT	<15° F	SPECIFIC GRAVITY	1.095
VAPOR PRESSURE	not available	PERCENT VOLATILE	77
VAPOR DENSITY (AIR=1)	not available	APPEARANCE	Clear light green
SOLUBILITY IN WATER	Complete	ODOR	Clean Smell
EVAPORATION RATE (BUTYL ACETATE =1)	<1		

SECTION X STABILITY AND REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATIBILITY (CONDITIONS TO AVOID): Strong oxidizers, strong acids, and strong bases.

HAZARDOUS DECOMPOSITION: N/A

PRODUCT NAME: ALUMA PRO CLEANER / BRIGHTENER
DUCT CODE: 2-4782 P/N 4782-4783-4787
CHEMICAL FAMILY: ACIDIC CLEANER

VERSION 1
DATE

PG. 3
4/22/2010

SECTION XI TOXICOLOGICAL INFORMATION

This product has not been tested as a whole

Phosphoric Acid

Acute oral LD50: 1,530 mg/kg rat. Acute inhalation LC50:
61 mg/m3 as P2O5, guinea pig; 271 mg/m3 as P2O5, mouse;
1217 mg/m3 as P2O5, rat; 1689 mg/m3 as P2O5, rabbit acute
eye irritation, OECD 405 protocol; not irritating at <17% solution,
severe irritation at higher concentrations.
Acute dermal toxicity, LD50: >1260 mg/kg, rabbit 85% solution;
> 3,160 rabbit, 75% solution
Acute toxicity to fish, bluegill sunfish, 96 hr LC50 = pH 3.0 - 3.5.
Acute toxicity to invertebrates, Daphnia, 12 hr EC50 = pH 4.1 - 4.6

T.G.I. product testing program

SECTION XII ECOLOGICAL INFORMATION

Phosphoric Acid

May be harmful to fish, livestock, & wildlife

SECTION XIII DISPOSAL CONSIDERATIONS

WASTE DESCRIPTION

Wastes must be tested using methods described in 40 CFR
Part 261 to determine if it meets applicable definitions of
hazardous wastes.

GENERAL DISPOSAL CONSIDERATIONS:

Clean up and dispose of waste in accordance with all
federal, state, and local environmental regulations.

SECTION XIV TRANSPORT INFORMATION

PROPER SHIPPING NAME

CORROSIVE LIQUID, N.O.S. (Phosphoric Acid Solution)

UN/NA NUMBER

UN1760

HAZARD CLASS

8

PACKING GROUP

III

REPORTABLE QUANTITY (RQ lbs)

154

EMERGENCY RESPONSE GUIDEBOOK

Corrosive

PLACARD/LABELS REQUIRED

SECTION XV REGULATORY INFORMATION

OSHA HAZARDOUS CHEMICAL

yes

SARA 302 COMPONENTS

none

SARA 311/312

Immediate (X) Delayed (X) Fire () Reactive ()

SARA 313 COMPONENTS

Sudden release of Pressure ()

SECTION XVI OTHER INFORMATION

MIS

Health = 2; Flammability = 0; Reactivity = 0

DISCLAIMER

The information herein has been from sources believed to be accurate, reliable and up to date to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources and do not make any warranties nor assume any liability from its use or misuse.

revised 5/15/05

MATERIAL SAFETY DATA SHEET
Prepared according to OSHA Standard 1910.1200

	HMIS	NFPA
H	1	1
F	0	0
R	1	1

1. Chemical Product and Company Identification

Product Name: **MC-200 SOAP**
Product Description: Cleaning Solution
Company Name: **Jarman's Midwest Cleaning Syst. Inc.**
Company Address: 824 N. Grant St
Canton, SD 57013
Emergency Phone Number: 1-800-535-5053
Information Phone Number: 1-800-288-0741

2. Composition/Information of Ingredients

Hazardous ingredient:	CAS #	OSHA, PEL	ACGIH, TLV	Wt. %
Sodium Tripolyphosphate	7758-29-4		1mg/m ³	
Nitrilotraicetic acid, trisodium salt	5064-31-3			
Ethylene Glycol Monobutyl ether	111-76-2			
Disodium Trioxosilicate Pentahydrate	6834-92-0			
Nonylphenol polyethylene glycol ether	127087-87-0			
Surfactant blend (proprietary)	none			

3. Hazards Identification

Routes of entry:	Inhalation?no	Skin? yes	Ingestion? yes
Carcinogen:	NTP? no	IARC? no	OSHA?no

Eye Contact: Liquid will be irritating to the eyes.
Skin contact: Can cause skin irritation.
Ingestion: Do not take internally.

4. First Aid Measures

Eye Contact: Wash the eyes with water for 10 minutes. Get medical attention.
Skin Contact: Wash with water.
Ingestion: Induce vomiting. Get medical attention.

5. Fire Fighting Measures

Flashpoint and Method: N/A
Flammable Limits: N/A
Autoignition: N/A

Fire fighting instruction: Use water fog. Carbon Dioxide. Foam or dry. Avoid strong streams of water that create foam.
Fire fighting equipment: Fire fighters should wear protective gear
Hazardous Combustion Products: None known

6. Accidental Release Measures

In case of a spill, Confine spill or leak, soak up remainder with dirt or sand.
Dispose of it in accordance with local, State and Federal regulations.

7. Exposure Control/Personal Protection

Use in a ventilated area only if using hot.
Wear rubber gloves when handling product.
A face shield or goggles must be worn while handling the product.

8. Handling and Storage

Keep containers tightly closed
Material is extremely slippery.
Keep out of reach of children.

9. Physical Chemical Properties

Vapor Pressure: N/A
Specific Gravity: 1.03 (H₂O=1)
Solubility in Water: 100%
pH: 12.2 (conc.)
PH: 10 (use dilution)
Boiling Point: N/A
Physical State: Liquid

Vapor Density: N/A
Evaporation Rate: N/A
Freeze Point: N/A
Odor: mild
Appearance: Light green

10. Stability and Reactivity

The product is stable and it will not self polymerize.
There are no known hazardous products given off upon decomposition.
Conditions to avoid: exposure to acids

11. Transportation Information Not regulated

DOT NAME.....
HAZARD CLASS.....
IDENTIFICATION NUMBER.....

MATERIAL SAFETY DATA SHEET
Prepared according to OSHA Standard 1910.1200

REV. -
8/01/09

HMIS NFPA
H 2 2
F 0 0
R 1 1

1. Chemical Product and Company Identification

Product Name: **TRU-SHINE**
Product Description: **POLISHED ALUMINUM CLEANER**
Company Name: **Jarman's Midwest Cleaning Syst. Inc.**
Company Address: 824 N. Grant St
Canton, SD 57013
Emergency Phone Number: 1-800-535-5053
Information Phone Number: 1-800-288-0741

2. Composition/Information of Ingredients

Hazardous ingredient:	CAS #	OSHA, PEL	ACGIH, TLV	Wt. %
Citric acid	5949-29-1	n/a	n/a	
Surfactant blend	proprietary			

3. Hazards Identification

Routes of entry: Inhalation? yes Skin? yes Ingestion? yes
Carcinogen: NTP? no IARC? no OSHA? no
Inhalation: Vapors and mists cause irritation and burning to the nose and throat.
Eye Contact: Vapors and liquid will cause eye burns
Skin contact: Will cause irritation and possible burns.
Ingestion: Do not take internally. Product is toxic.

4. First Aid Measures

Inhalation: Remove to fresh air. If breathing is difficult, get medical attention
Eye Contact: Wash the eyes with water for 30 minutes. If burning persists, get medical attention.
Skin Contact: Wash with soap and water. Call a physician.
Ingestion: Do not induce vomiting. Give large quantities of water and get medical attention.
Clothing: Remove contaminated clothing and wash before reuse. Destroy contaminated shoes.

5. Fire Fighting Measures

Flashpoint and Method: None
Flammable Limits: N/A
Autoignition: N/A
Fire fighting instruction: If conditions are safe, remove containers from fire area or cool with a stream of water.
Fire fighting equipment: fire fighters should wear protective gear and self contained breathing apparatus.

Hazardous Combustion Products: If product is stored in metal containers, corrosive effect could generate hydrogen gas which under certain circumstances, may result in a potential fire or explosion hazard.

6. Accidental Release Measures

Wear protective equipment and carefully neutralize with soda ash or lime.
Collect the neutralized product and dispose of it according to local, State and Federal regulations.

7. Exposure Control/Personal Protection

Respiratory Protection: A NIOSH/MSHA approved respirator as necessary.
Ventilation: General; local exhaust ventilation as necessary to control any air contaminants to within their TLVs during the use of this product.
Protective Equipment: Chemical goggles, full face shield. Protective clothing: neoprene gloves, boots, apron or acid resistant rubber suit, hat

8. Handling and Storage

Store in a cool dry area. Keep containers tightly closed. Wear protective equipment when handling the product. This include; neoprene or PVC gloves and a full face shield or chemical goggles. Keep away from incompatible materials.
Keep out of reach of children.

9. Physical Chemical Properties

Vapor Pressure: N/A
Specific Gravity: 1.104
Solubility in Water: Complete
pH: <2
Boiling Point: N/A
Physical State: Liquid

Vapor Density: heavier than air
Evaporation Rate: N/A
Freeze Point: N/A
Odor: slight acidic odor
Appearance: clear liquid

10. Stability and Reactivity

The product is stable and it will not self polymerize.
Strong alkalis, sulfides, containers of aluminum, zinc and most other metal should be avoided.
Keep away from open flames and direct sunlight.

11. Transportation Information

NOT REGULATED BY D.O.T.

Permatex, Inc.
 Columbus Blvd.
 Hartford, CT 06106 USA
 Telephone: 1-87-Permatex
 (877) 376-2839
 Emergency: 800-255-3924
 International Emergency: +01-813-248-0585

Material Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name: 98H HIGH TACK GASKET SEALANT .25PT
Item No: 80062
Product Type: Sealant

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	ACGIH; TLV-TWA	OSHA PEL
ACETONE 67-64-1	35-45	500 ppm	1000 ppm; 2400 mg/m ³
METHYL ESTER OF ROSIN 68186-14-1	20-30	Not listed	Not listed
N-HEXANE 110-54-3	15-25	50 ppm	500 ppm; 1800 mg/m ³
ROSIN 8050-09-7	5-15	Not listed	Not listed
ACRYLONITRILE-BUTADIENE POLYMER 9003-18-3	<10	Not listed	Not listed

3. HAZARDS IDENTIFICATION

Toxicity: May cause eye, skin and respiratory irritation. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage (sometimes referred to as "solvent" or "painter's syndrome"). Symptoms include fatigue, concentration difficulties, anxiety, depression, rapid mood swings, and short-term memory loss. Aspiration hazard if swallowed. Prolonged and repeated exposure to methyl ethyl ketone and/or n-hexane may cause peripheral neuropathy by damaging peripheral nerve tissue (that of arms and legs) and result in muscular weakness and loss of sensation.

Primary Routes of Entry: Eye and skin contact, ingestion, inhalation

Signs and Symptoms of Exposure: Excessive overexposure may cause giddiness, dizziness, headache, nausea and in extreme cases, unconsciousness and respiratory depression. Overexposure may cause eye and skin redness, difficulty breathing and vomiting.

Component	Weight%	NTP	ACGIH Carcinogens	IARC
ACETONE 67-64-1	35-45	Not known	A4 - Not Classifiable as a Human Carcinogen	

Medical Conditions Recognized as Being Aggravated by Exposure: Persons with preexisting respiratory, liver, kidney, eye or skin diseases may be adversely affected.

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: Move to fresh air in case of accidental inhalation of vapours. Oxygen or artificial respiration if needed. Obtain medical attention.

Skin Contact: Wash off with soap and water. If skin irritation persists, call a physician.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flash Point °F(C°): 0°F
Recommended Extinguishing Media: Carbon Dioxide, Dry Chemicals, Foam.

Product Name: 98H HIGH TACK GASKET SEALANT
.25PT

5. FIRE FIGHTING MEASURES

Special Fire-Fighting Procedures:

Firefighters should wear self-contained breathing apparatus. Water spray may be ineffective on flames but should be used to keep fire-exposed containers cool.

Hazardous Products of Combustion: Unusual Fire/Explosion Hazards:

Oxides of carbon
Closed containers may rupture or explode when exposed to extreme heat.
Keep containers cool.

Lower Explosive Limit: Upper Explosive Limit:

2.0
13.0

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures:

Eliminate all sources of ignition. Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal.

7. HANDLING AND STORAGE

Storage: Handling:

Store away from heat, sparks or open flame. Do not store at temperatures above 100°F (38°C).
Avoid contact with skin and eyes. Use only in a well ventilated area. Do not take internally. Do not use near heat, sparks or open flame. Vapors may accumulate readily and may ignite explosively.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Skin:

Safety glasses.
Neoprene or nitrile gloves recommended.

Ventilation:

General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product.

Respiratory Protection:

An approved organic vapor respirator should be worn when exposures are expected to exceed the applicable limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Odor: Boiling Point: pH: Solubility in Water: Specific Gravity: VOC(Wt.%): Vapor Pressure: Vapor Density (Air=1): Evaporation Rate:

Red, tacky liquid
Solvent
135°F
Does not apply
Partial
0.872
16.6 %
400 mm Hg
2.5
Faster than ether

10. STABILITY AND REACTIVITY

Chemical Stability: Hazardous Polymerization: Incompatibilities: Conditions to Avoid: Hazardous Products of Combustion:

Stable at normal conditions
Will not occur.
Strong oxidizers
Keep away from heat, sparks and open flame. - No smoking.
Oxides of carbon

11. TOXICOLOGICAL INFORMATION

See Section 3

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended Method of Disposal: Disposal should be made in accordance with federal, state and local regulations.
EPA Waste Number: D001 as per 40CFR 261.21

14. TRANSPORTATION INFORMATION

DOT (49CFR 172)

Item No: 80062

Product Name: 98H HIGH TACK GASKET SEALANT
.25PT

14. TRANSPORTATION INFORMATION

Ground Transport (DOT)

DOT Shipping Name: Consumer Commodity (not more than one liter)
Hazard Class: ORM-D
UN/ID Number: None

IATA

Proper Shipping Name: Consumer Commodity (Not more than 1 liter)
Class or Division: Class 9
UN/ID Number: ID 8000

IMDG

Proper Shipping: Adhesives containing flammable liquid, Limited Quantity
Hazard Class: Class 3, PG II
UN Number: UN 1133
Marine Pollutant: None

15. REGULATORY INFORMATION

SARA 313 Chemicals: The following component(s) is listed as a SARA Section 313 Toxic Chemical.

N-HEXANE

California Proposition 65: WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm

TSCA Inventory Status: All components of this product are listed (or exempt) on the EPA TSCA inventory.

OTHER INFORMATION

Estimated NFPA Rating: HEALTH 2, FLAMMABILITY 3, REACTIVITY 0.
Estimated HMIS Classification: HEALTH 2, FLAMMABILITY 3, PHYSICAL HAZARD 0
NFPA is a registered trademark of the National Fire Protection Assn.
HMIS is a registered trademark of the National Paint and Coatings Assn.

Prepared By: Denise Boyd, Manager-Environmental, Health & Safety
Company: Permatex, Inc. 10 Columbus Blvd. Hartford, CT USA 06106
Telephone No.: 1-87-Permatex (877) 376-2839

Revision Date: January 14, 2010
Revision Number: 3

Permatex, Inc.
 Columbus Blvd.
 Hartford, CT 06106 USA
 Telephone: 1-87-Permatex
 (877) 376-2839
 Emergency: 800-255-3924
 International Emergency: +01-813-248-0585

Material Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name: 6MA POWERBEAD SENSOR SAFE BLUE RTV SILICONE 7.25 OZ AE
Item No: 81860
Product Type: Elastomeric rubber (pressurized)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	ACGIH; TLV-TWA	OSHA PEL
POLY (DIMETHYLSILOXANE), HYDROXY TERMINATED 70131-67-8	30-50	Not listed	Not listed
LIMESTONE 1317-65-3	20-40	Not listed	15 mg/m ³
CALCIUM CARBONATE 471-34-1	15-40	10 mg/m ³	Not listed
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT 64742-47-8	<5	Not listed	Not listed
VINYL OXIMINOSILANE 2224-33-1	<5	Not listed	Not listed
ACETIC ACID 64-19-7	<2	Not listed	Not listed
BUTANONE OXIME 96-29-7	0.5-2.0	Not listed	Not listed
NITROGEN 7727-37-9	0.5-2.0	Not listed	Not listed

3. HAZARDS IDENTIFICATION

Toxicity: May cause eye and skin irritation. When this product if exposed to moisture, butanone oxime may be formed. May be harmful if swallowed. May irritate lips, gums, tongue, mouth, nose and throat.
Primary Routes of Entry: Eye and skin contact, ingestion, inhalation
Signs and Symptoms of Exposure: Butanone oxime produced during curing is toxic and irritates eyes, nose and throat. Overexposure to the silane may cause coma and respiratory failure.
Medical Conditions Recognized as Being Aggravated by Exposure: Preexisting eye, skin and respiratory disorders may be aggravated by overexposure to this product.

4. FIRST AID MEASURES

Ingestion: Rinse mouth. If swallowed, DO NOT induce vomiting. Keep individual calm. Obtain medical attention.
Inhalation: Move to fresh air in case of accidental inhalation of vapours. Obtain medical attention.
Skin Contact: Wipe off material with paper towel or cloth. Wash off with soap and water. If skin irritation persists, call a physician.
Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flash Point °F(C°): >200°F TCC
Recommended Extinguishing Media: Carbon Dioxide, Dry Chemicals, Foam.
Special Fire-Fighting Procedures: ***Warning: This container is pressurized with nitrogen. Do not remove rubber plug. Keep containers cool. Use equipment or shielding required to protect against bursting or venting of containers. Oxides of nitrogen, Methyl ethyl ketone, possibly methyl ethyl ketoxime, Silica fume, Oxides of carbon, Formaldehyde
Hazardous Products of Combustion: Contents under pressure. Heated cans may burst.
Unusual Fire/Explosion Hazards:

Product Name: 6MA POWERBEAD SENSOR SAFE
 BLUE RTV SILICONE 7.25 OZ AE

6. FIRE FIGHTING MEASURES

Lower Explosive Limit: Not determined
Upper Explosive Limit: Not determined

6.1. SPILL/RELEASE PROCEDURES

Spill Procedures: Wipe or scrape up spill material. Maintain good ventilation for large spills. Place scrap material in a well-ventilated area and allow to cure to rubber. Clean up spills thoroughly as residue is slippery.

7. HANDLING AND STORAGE

Storage: Store away from heat, sparks or open flame. Do not store at temperatures above 100°F (38°C). Exposure to high temperatures may cause container to burst.
Handling: Avoid contact with skin and eyes. Do not wear contact lenses. Do not inhale vapors. Do not take internally.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Safety glasses.
Skin: Neoprene or nitrile gloves recommended.
Ventilation: General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product. An approved organic vapor respirator should be worn when exposures are expected to exceed the applicable limits.
Respiratory Protection:

Comments: When heated to temperatures above 300 degrees F. in the presence of air, this product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Safe handling conditions may be maintained by keeping vapor concentrations below the OSHA permissible limit for formaldehyde

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Blue paste
Color: Mild
Boiling Point: Not applicable, polymeric material
pH: Does not apply
Solubility in Water: Polymerized
Specific Gravity: 1.43
VOC(Wt%): <4%
Vapor Pressure: <5 mm Hg @ 80°F
Vapor Density (Air=1): 3.0
Evaporation Rate: Not Determined

10. STABILITY AND REACTIVITY

Chemical Stability: Stable at normal conditions
Hazardous Polymerization: Will not occur.
Incompatibilities: Polymerized by contact with moisture., Strong oxidizers, Acids, Iron
Conditions to Avoid: Keep away from heat, sparks and open flame. Exposure to moisture.
Hazardous Products of Combustion: Oxides of nitrogen, Methyl ethyl ketone, possibly methyl ethyl ketoxime, Silica fume, Oxides of carbon, Formaldehyde

11. TOXICOLOGICAL INFORMATION

See Section 3

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended Method of Disposal: Disposal should be made in accordance with federal, state and local regulations..
EPA Waste Number: NH - Not a RCRA Hazardous Waste Material

14. TRANSPORTATION INFORMATION

DOT (49CFR 172) Group and Transport (DOT) DOT Shipping Name: Consumer Commodity

Item No: 81860

Product Name: 6MA POWERBEAD SENSOR SAFE
BLUE RTV SILICONE 7.25 OZ AE

14. TRANSPORTATION INFORMATION

Hazard Class: ORM-D
UN/ID Number: None

IATA

Proper Shipping Name: Consumer Commodity (Not more than 1 liter)
Class or Division: Class 9
UN/ID Number: ID 8000

MDG

Proper Shipping: Aerosols, Limited Quantity
Hazard Class: Class 2.2
UN Number: UN 1950

Marine Pollutant: None

15. REGULATORY INFORMATION

SARA 313 Chemicals: The following component(s) is listed as a SARA Section 313 Toxic Chemical.

NONE

California Proposition 65: No California Prop 65 chemicals are known to be present at or above the No Significant Risk Level

TSCA Inventory Status: All components of this product are listed (or exempt) on the EPA TSCA inventory.

16. OTHER INFORMATION

Estimated NFPA Rating: HEALTH 1, FLAMMABILITY 1, REACTIVITY 0.
Estimated HMIS Classification: HEALTH 1, FLAMMABILITY 1, PHYSICAL HAZARD 0
is a registered trademark of the National Fire Protection Assn.
is a registered trademark of the National Paint and Coatings Assn.

Prepared By: Denise Boyd, Manager-Environmental, Health & Safety
Company: Permatex, Inc. 10 Columbus Blvd. Hartford, CT USA 06106

Revision Date: July 15, 2009
Revision Number: 1

Telephone No.: 1-87-Permatex (877) 376-2839