

TECH TIPS

Service Call:

**Customer requires MSDS sheets for
Terex/Genie Equipment.**

Tools Needed:

None

Model:

AWP/IWP/DPL



Tech Tips Safety Rules



Danger

Failure to obey the instructions and safety rules in the appropriate Operator's Manual and Service Manual for your machine will result in death or serious injury. Many of the hazards identified in the operator's manual are also safety hazards when maintenance and repair procedures are performed.

Do Not Perform Maintenance Unless:

- You are trained and qualified to perform maintenance on this machine.
- You read, understand and obey:
 - manufacturer's instructions and safety rules
 - employer's safety rules and worksite regulations
 - applicable governmental regulations
- You have the appropriate tools, lifting equipment and a suitable workshop.

The information contained in this tech tip is a supplement to the service manual. Consult the appropriate service manual of your machine for safety rules and hazards.

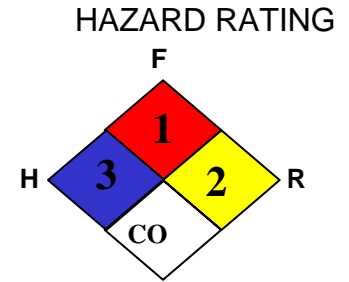
Step 1

Attached is a list of MSDS sheets for the required models.

Step 2



TROJAN BATTERY COMPANY
LEAD / ACID BATTERY



MATERIAL SAFETY DATA SHEET

SECTION 1-- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER'S NAME: TROJAN BATTERY COMPANY	EMERGENCY TELEPHONE NO.: CHEMTREC 800-424-9300
ADDRESS: 12380 CLARK ST., SANTA FE SPRINGS, CA 90670	OTHER INFORMATION CALLS: 562-946-8381 800-423-6569
PERSON RESPONSIBLE FOR PREPARATION: Ismael Pedroza, Jr.	Revision Date: February 19, 2006

SECTION 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

C.A.S.	PRINCIPAL HAZARDOUS COMPONENT(S) (chemical & common name(s))	Hazard Category	%	ACGIH TLV	OSHA PEL-TWA
7439-92-1	Lead/Lead Oxide/Lead Sulfate	Acute-Chronic	60 - 97%	0.05 mg/m ³	0.05 mg/m ³
7440-36-0	Antimony	Chronic	1.5 - 4%	0.5 mg/m ³	0.5 mg/m ³
7440-38-2	Arsenic	Acute-Chronic	< 1%	0.01 mg/m ³	0.01mg/m ³
7664-93-9	Sulfuric Acid (Battery Electrolyte)	Reactive-Oxidizer Acute-Chronic	10 - 38%	1.0 mg/m ³	1.0 mg/m ³
7440-70-2	Calcium	Reactive	< 0.15%	Not established	Not established
7440-31-5	Tin	Chronic	< 0.3%	2.0 mg/m ³	Not established

NOTE: PEL's for individual states may differ from OSHA PEL's. Check with local authorities for the applicable state PEL's.
 OSHA - Occupational Safety and Health Administration; ACGIH - American Conference of Governmental Industrial Hygienists; NIOSH - National Institute for Occupational Safety and Health.

COMMON NAME: (Used on label)
 (Trade Name & Synonyms) Lead/Acid Storage Battery Chemical Family: Toxic and Corrosive Material Mixture
 Chemical Name: Lead/Acid Storage Battery Formula: Lead and Acid (electrolyte)

SECTION 3 -- HAZARD IDENTIFICATION

Signs and Symptoms of Exposure	1. Acute Hazards	Do not open battery. Avoid contact with internal components. Internal components include lead and liquid electrolyte. Electrolyte - Electrolyte is corrosive and contact may cause skin irritation and chemical burns. Electrolyte causes severe irritation and burns of eyes, nose and throat. Ingestion can cause severe burns and vomiting. Lead -Direct skin or eye contact may cause local irritation. Inhalation or ingestion of lead dust or fumes may result in headache, nausea, vomiting, abdominal spasms, fatigue, sleep disturbances, weight loss, anemia and leg, arm and joint pain.				
2. Subchronic and Chronic Health Effects	Electrolyte - Repeated contact with sulfuric acid battery electrolyte fluid may cause drying of the skin which may result in irritation, dermatitis, and skin burns. Repeated exposure to sulfuric acid mist may cause erosion of teeth, chronic eye irritation and/or chronic inflammation of the nose, throat and lungs. Lead - Prolonged exposure may cause central nervous system damage, gastrointestinal disturbances, anemia, wrist-drop and kidney dysfunction. Pregnant women should be protected from excessive exposure to prevent lead from crossing the placental barrier and causing infant neurological disorders. California Proposition 65 Warning: Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm, and during charging, strong inorganic acid mists containing sulfuric acid are evolved, a chemical known to the State of California to cause cancer. Wash hands after handling.					
Medical Conditions Generally Aggravated by Exposure	If battery is broken or material is spilled, then persons with the following medical conditions must take precautions: pulmonary edema, bronchitis, emphysema, dental erosion and tracheobronchitis.					
Routes of Entry	Inhalation - YES Ingestion - YES	Eye Contact - YES Skin Contact - YES				
Chemical(s) Listed as Carcinogen or potential Carcinogen	Proposition 65 - YES	National Toxicology Program - YES	I.A.R.C. Monographs - YES	OSHA - NO	EPA CAG - YES NIOSH - YES	

SECTION 4 -- FIRST AID MEASURES

Emergency and First Aid Procedures	Contact with internal components if battery is opened, broken or spilled.
1. Inhalation	Remove to fresh air and provide medical oxygen/CPR if needed. Obtain medical attention.
2. Eyes	Immediately flush with water for at least 15 minutes, hold eyelids open. Obtain medical attention.
3. Skin	Flush contacted area with large amounts of water for at least 15 minutes. Remove contaminated clothing and obtain medical attention if necessary.
4. Ingestion	Do not induce vomiting. If conscious drink large amounts of water/milk. Obtain medical attention. Never give anything by mouth to an unconscious person.

SECTION 5 - FIREFIGHTING MEASURES

Flash Point	Not Applicable	Flammable Limits in Air % by Volume (When charging)	Hydrogen (H ₂)	Lower 4.1%	Upper 74.2%	Extinguisher Media	Class ABC, CO ₂ , Halon	Auto-Ignition Temperature	Polypropylene 675° F
Special Fire Fighting Procedures	Lead-acid batteries do not burn or burn with difficulty. Do not use water on fires where molten metal is present. Extinguish fire with agent suitable for surrounding combustible materials. Cool exterior of battery if exposed to fire to prevent rupture. The acid mist and vapors generated by heat or fire are corrosive. Use NIOSH approved self-contained breathing apparatus (SCBA) and full protective equipment operated in positive-pressure mode.								
Unusual Fire and Explosion Hazards	Hydrogen gas and sulfuric acid vapors are generated upon overcharge and polypropylene case failure. Ventilate charging areas as per ACGIH <u>Industrial Ventilation : A Manual of Recommended Practice</u> and <u>National Fire Code</u> , 1980 Vol. 1, P. 12, B-9, 10. Hydrogen gas may be flammable or explosive when mixed with air, oxygen, chlorine. Avoid open flames/sparks/other sources of ignition near battery. To avoid risk of fire or explosion, keep sparks or other sources of ignition away from batteries and do not allow metallic materials to simultaneously contact negative and positive terminals of cells and batteries. SULFURIC ACID REACTS VIOLENTLY WITH WATER/ORGANICS.								

SECTION 6 -- ACCIDENTAL RELEASE MEASURES

Procedures for Cleanup: Stop release, if possible. Avoid contact with any spilled material. Contain spill, isolate hazard area, and deny entry. Limit site access to emergency responders. Neutralize with sodium bicarbonate, soda ash, lime or other neutralizing agent. Place battery in suitable container for disposal. Dispose of contaminated material in accordance with applicable local, state and federal regulations. Sodium bicarbonate, soda ash, sand, lime or other neutralizing agent should be kept on-site for spill remediation.

Personal Precautions: Acid resistant aprons, boots and protective clothing. ANSI approved safety glasses with side shields/face shield recommended. Ventilate enclosed areas.

Environmental Precautions: Lead and its compounds and sulfuric acid can pose a severe threat to the environment. Contamination of water, soil, and air should be prevented.

SECTION 7 -- HANDLING AND STORAGE

Precautions to be Taken in Handling and Storage	Keep away from flames during and immediately after charging. Combustion or overcharging may create or liberate toxic and hazardous gases and liquids including hydrogen, sulfuric acid mist, sulfur dioxide, sulfur trioxide, stibine, arsine and sulfuric acid. Store batteries in cool, dry, well ventilated area. Do not short circuit battery terminals, or remove vent caps during storage or recharging. Protect battery from physical damage.
Other Precautions	GOOD PERSONAL HYGIENE AND WORK PRACTICES ARE MANDATORY. Refrain from eating, drinking or smoking in work areas. Thoroughly wash hands, face, neck, and arms before eating, drinking or smoking. Launder soiled clothing before reuse. Emptied batteries contain hazardous sulfuric acid residue.

SECTION 8 -- EXPOSURE CONTROLS AND PERSONAL PROTECTION

Respiratory Protection (Specify Type)	Acid/gas NIOSH approved respirator is required when the PEL is exceeded or employee experiences respiratory irritation. When exposure levels are unknown or when firefighting, wear a self-contained breathing apparatus with a full facepiece operated in a positive pressure mode.				
Ventilation	Must be provided when charging in an enclosed area. Change air every 15 min.	Local Exhaust	When PEL is exceeded.	Mechanical (General)	Normal mechanical ventilation recommended for stationary applications.
Protective Gloves	Wear rubber or plastic acid resistant gloves with elbow length gauntlet when filling batteries.	Eye Protection	ANSI approved safety glasses with side shields/face shield recommended. Safety goggles.		
Other Protective Clothing or Equipment	Ventilation as described in the <u>Industrial Ventilation Manual</u> produced by the American Conference of Governmental Industrial Hygienists, shall be provided in areas where exposures are above the PEL or TLV specified by OSHA or other local, state and federal regulations. Acid-resistant rubber or plastic apron, boots and protective clothing. Safety shower and eyewash.				

SECTION 9 -- PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point	Electrolyte Approx. 235° F	Vapor Pressure	Electrolyte 1 mm Hg @ 145.8° F	Specific Gravity	Electrolyte (H ₂ O = 1) 1.250 - 1.320 pH < 2	Melting Point	Polypropylene < 320° F
Percent Volatile by Volume (%)	Not Applicable	Vapor Density	Hydrogen (Air = 1) : 0.069 Electrolyte (Air = 1) : 3.4	At STP		Evaporation Rate	Not Applicable
Solubility in Water	Electrolyte: 100% Soluble			Reactivity in Water	Electrolyte - water reactive (1)		
Appearance and Odor	Battery: Polypropylene or hard rubber case, solid. Lead: Gray, metallic, solid Electrolyte: Liquid, colorless, oily fluid; nuisance odor when hot or charging battery.						

SECTION 10 -- STABILITY AND REACTIVITY

Stability	Unstable <input type="checkbox"/> Stable <input checked="" type="checkbox"/>	Conditions to Avoid	High temperatures - cases decompose at <320°F. Avoid overcharging and smoking, or sparks near battery surface and rapid overcharge.
Incompatibility (Materials to Avoid)	Sparks, Open flames, Keep battery case away from strong oxidizers.		
Hazardous Decomposition Products	An explosive hydrogen/oxygen mixture within the battery may occur during charging. Combustion can produce carbon dioxide (CO ₂) and carbon monoxide (CO). Molten metals produce fumes and/or vapor that may be toxic or respiratory irritants.		
Hazardous Polymerization	May Occur <input type="checkbox"/> Will Not Occur <input checked="" type="checkbox"/>	Do not overcharge.	

SECTION 11 -- TOXICOLOGICAL INFORMATION

GENERAL: The primary routes of exposure to lead are ingestion or inhalation of dust and fumes.

ACUTE:

INGESTION/INHALATION: Exposure to lead and its compounds may cause headache, nausea, vomiting, abdominal spasms, fatigue, sleep disturbances, weight loss, anemia, and pain in the legs, arms and joints. Kidney damage, as well as anemia, can occur from acute exposure.

CHRONIC:

INHALATION/INGESTION: Prolonged exposure to lead and its compounds may produce many of the symptoms of short-term exposure and may also cause central nervous system damage, gastrointestinal disturbances, anemia, and wrist drop. Symptoms of central nervous system damage include fatigue, headaches, tremors, hypertension, hallucinations, convulsions and delirium. Kidney dysfunction and possible injury has also been associated with chronic lead poisoning. Chronic over-exposure to lead has been implicated as a causative agent for the impairment of male and female reproductive capacity, but there is, at present, no substantiation of the implication. Pregnant women should be protected from excessive exposure. Lead can cross the placental barrier and unborn children may suffer neurological damage or developmental problems due to excessive lead exposure in pregnant women.

SECTION 12 -- ECOLOGICAL INFORMATION

In most surface water and groundwater, lead forms compounds with anions such as hydroxides, carbonates, sulfates, and phosphates and precipitates out of the water column. Lead may occur as sorbed ions or surface coatings on sediment mineral particles or may be carried in colloidal particles in surface water. Most lead is strongly retained in soil, resulting in little mobility. Lead may be immobilized by ion exchange with hydrous oxides or clays or by chelation with humic or fulvic acids in the soil. Lead (when in the dissolved phase) is bio-accumulated by plants and animals, both aquatic and terrestrial.

SECTION 13 -- DISPOSAL CONSIDERATIONS

Waste Disposal Methods	Lead-acid batteries are completely recyclable. Return whole scrap batteries to distributor, manufacturer or lead smelter for recycling. For information on returning batteries to Trojan Battery Company for recycling call 800-423-6569. For neutralized spills, place residue in acid-resistant containers with sorbent material, sand or earth and dispose of in accordance with local, state and federal regulations for acid and lead compounds. Contact local and/or state environmental officials regarding disposal information.
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SECTION 14 -- TRANSPORT INFORMATION

U.S. DOT PROPER SHIPPING NAME: Batteries, wet, filled with acid
U.S. DOT HAZARD CLASS: 8
U.S. DOT ID NUMBER: UN 2794
U.S. DOT PACKING GROUP: III
U.S. DOT LABEL: Corrosive

IMO PROPER SHIPPING NAME: Batteries, wet, filled with acid
IMO REGULATION PAGE NUMBER: 8120
IMO U.N. CLASS: 8
IMO U.N. NUMBER: UN 2794
IMO PACKING GROUP: III
IMO LABEL: Corrosive
IMO VESSEL STOWAGE: A

IATA PROPER SHIPPING NAME: Batteries, wet, filled with acid
IATA U.N. CLASS: 8
IATA U.N. NUMBER: UN 2794
IATA PACKING GROUP: III
IATA LABEL: Corrosive

SECTION 15 -- REGULATORY INFORMATION

U.S. Hazardous Under Hazard Communication Standard:

Lead - YES
Sulfuric Acid - YES
Antimony - YES
Arsenic - YES

Ingredients Listed on TSCA Inventory:

YES

CERCLA Section 304 Hazardous Substances:

Lead - YES

RQ: NA*

Sulfuric Acid – YES	RQ: 1000 pounds
Antimony - YES	RQ: 5000 pounds
Arsenic – YES	RQ: 1 pound

*Reporting not required when diameter of the pieces of solid metal released is equal to or exceeds 100 micrometers.

EPCRA Section 302 Extremely Hazardous Substance: Sulfuric acid - YES

EPCRA Section 313 Toxic Release Inventory: Lead - CAS NO: 7439-92-1
Sulfuric Acid - CAS NO: 7664-93-9
Antimony - CAS NO: 7440-36-0
Arsenic - CAS NO: 7440-38-2

SECTION 16 -- OTHER INFORMATION

THE INFORMATION ABOVE IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. HOWEVER, TROJAN BATTERY COMPANY MAKES NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO SUCH INFORMATION, AND WE ASSUME NO LIABILITY RESULTING FROM ITS USE. USERS SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION FOR THEIR PARTICULAR PURPOSES. ALTHOUGH REASONABLE PRECAUTIONS HAVE BEEN TAKEN IN THE PREPARATION OF THE DATA CONTAINED HEREIN, IT IS OFFERED SOLELY FOR YOUR INFORMATION, CONSIDERATION AND INVESTIGATION. THIS MATERIAL SAFETY DATA SHEET PROVIDES GUIDELINES FOR THE SAFE HANDLING AND USE OF THIS PRODUCT; IT DOES NOT AND CANNOT ADVISE ON ALL POSSIBLE SITUATIONS, THEREFORE, YOUR SPECIFIC USE OF THIS PRODUCT SHOULD BE EVALUATED TO DETERMINE IF ADDITIONAL PRECAUTIONS ARE REQUIRED.

Form MSDS Rev. 2/19/07

MATERIAL SAFETY DATA SHEET

Emergency Phone: (631) 205-9700
Chemtrec: (800) 424-9300
Supplier: The Orelube Corporation
20 Sawgrass Drive
Bellport, NY 11713

Date Prepared: 03/30/05

1 PRODUCT IDENTIFICATION

PRODUCT NAME: BOELUBE 70200
SYNONYMS: 70206 / 16B4F
CHEMICAL FAMILY: Proprietary
PRODUCT USE: Metalworking Lubricant

NFPA

Health - 1
Flammability - 1
Reactivity - 0

2 PRECAUTIONARY INFORMATION

This product is not known or expected to be hazardous.

3 HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

COMPONENTS	OSHA PEL	ACGIH TLV	ACGIH STEL	CAS #
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This Material Safety Data Sheet has been prepared under guidelines in OSHA Hazard Communication Standard 29 CFR 1910.1200.

No known hazardous ingredients present in product. Exposure limits not established.

None of the components of this product at concentrations greater than or equal to 0.1% are listed as a carcinogen or potential carcinogen by NTP, IARC, and OSHA.

4 HEALTH HAZARD DATA

EYE: Excessive exposure may result in transient irritation.

SKIN: Excessive exposure may result in transient irritation in some individuals.

INGESTION: Not an expected route of exposure. Non-toxic by oral dosing in rats.

INHALATION: Not an expected route of exposure.

SYMPTOMS OF EXPOSURE: No persistent adverse health effects are known to be associated with exposure to this product.

PRIMARY ROUTES OF ENTRY: Occupational exposure most likely to occur through skin contact.

5 FIRST AID MEASURES

SKIN: Wash off with plenty of soap and water.

EYE: Flush with large amounts of water. If any irritation persists, get medical attention.

INGESTION: Remove material from mouth. Drink plenty of water. If large amount swallowed or symptoms develop, get medical attention.

INHALATION: Remove to fresh air.

6 EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING MEASURES: Ensure ventilation or local exhaust especially for enclosed space.
HYGIENE MEASURES: Good industrial hygiene should be followed.
OCCUPATIONAL EXPOSURE LIMITS: No occupational exposure limits have been established.
PERSONAL PROTECTIVE EQUIPMENT: Normal precautions should be observed. If repeated or prolonged skin contact is likely, impervious gloves are recommended.

7 PHYSICAL / CHEMICAL PROPERTIES

PHYSICAL STATE: Solid
COLOR: White
ODOR: None
BOILING POINT: Not determined
MELTING POINT: ~ 110 F (43 C)
VAPOR PRESSURE: < 0.1 mm Hg @ 20 C
VAPOR DENSITY: Heavier than air
SPECIFIC GRAVITY: ~ 0.84 g/ml @ 25 C
SOLUBILITY IN WATER: Insoluble
VOC CONTENT: Not volatile

8 STABILITY / REACTIVITY

STABILITY: Stable under normal conditions.
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition will evolve oxides of carbon.
MATERIALS TO AVOID: Oxidizing agents

9 FIRE / EXPLOSION DATA

FLASH POINT: > 330 F (165 C) (COC)
AUTOIGNITION TEMPERATURE: Not Available
UNUSUAL FIRE AND EXPLOSION HAZARDS: None expected
EXTINGUISHING MEDIA: Foam, dry chemical, carbon dioxide, water spray.
SPECIAL FIRE FIGHTING PROCEDURES: Use air-supplied breathing equipment for enclosed areas. Water or foam may cause frothing which can be violent, especially if sprayed into containers of hot burning liquid.

10 SPILL / LEAK PROCEDURES

Recover free product. Contain any spill to prevent entry to sewers or streams. Add sand, earth or suitable absorbent to spill area. Transfer to closed container.

11 WASTE DISPOSAL METHODS

Dispose of in accordance with local, state and federal laws.

12 PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in closed containers away from heat or open flames. Do not store with oxidizing agents. Not for internal use. Empty containers may contain product residue. Do not cut, heat or weld on or around empty containers. Avoid freezing temperatures.

13 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Oral LD₅₀ greater than 20 g/kg (rats)

SKIN IRRITATION: Non-irritant (rabbits)

EYE IRRITATION: Non-irritant (rabbits)

SKIN SENSITIZATION: Not a sensitizer.

MUTAGENICITY: Ames test - Negative (Non-mutagenic)

14 ECOLOGICAL INFORMATION

BIODEGRADATION: Biodegradable (expected to exhibit greater than 70% degradation within 28 days in the Modified Sturm test).

ECOTOXICITY: Not determined. However, this product is not expected to cause harm to aquatic organisms.

15 REGULATORY INFORMATION

This product does not contain a SARA Title 3 Section 313 (40 CFR 372) reportable chemical. This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

CALIFORNIA PROPOSITION 65: No reportable components.

INVENTORY STATUS: This product contains only chemicals that are currently listed on:

USA - TSCA; Australia - AICS; EU - EINECS; Canada - DSL; Korea - ECL; Japan - ENCS; Philippines - PICCS; and China - SEPA.

16 TRANSPORTATION INFORMATION

Not regulated by US DOT, IMO, or ICAO.

17 OTHER INFORMATION

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of The Orelube Corporation. The Orelube Corporation assumes no legal responsibility for the use or reliance upon this data.

Please note that the chemical identity of some or all of the ingredients that may or may not be listed herein is confidential business information and is being withheld as permitted by 29 CFR 1910.1200 and various State Right-to-Know Laws.



Chevron

Lubricants

MATERIAL SAFETY DATA SHEET
Chevron Rykon MV and Rykon Premium Hydraulic Oils
All Grades

MSDS: 7341 Revision #: 0 Revision Date: 01/06/99

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEVRON Rykon Premium Oil

PRODUCT NUMBER(S): CPS231015 CPS232950 CPS232952 CPS255678
CPS255679

SYNONYM: CHEVRON Hydraulic Oil AW MV ISO 100

CHEVRON Hydraulic Oil AW MV ISO 32

CHEVRON Hydraulic Oil AW MV ISO 46

CHEVRON Hydraulic Oil AW MV ISO 68

CHEVRON Rykon Premium Oil ISO 100

CHEVRON Rykon Premium Oil ISO 32

CHEVRON Rykon Premium Oil ISO 46

CHEVRON Rykon Premium Oil ISO 68

CHEVRON Rykon Premium Oil MV

COMPANY IDENTIFICATION EMERGENCY TELEPHONE NUMBERS

Chevron Products Company HEALTH (24 hr): (800)231-0623 or
Global Lubricants (510)231-0623 (International)

555 Market St. TRANSPORTATION (24 hr): CHEMTREC

Room 803 (800)424-9300 or (703)527-3887

San Francisco, CA 94105-2870 Emergency Information Centers
are located in U.S.A.

Int'l collect calls accepted

PRODUCT INFORMATION: MSDS Requests: (800) 414-MSDS or (800) 414-6737

Environmental, Safety, & Health Info: (415) 894-0703

Product Information: (800) 582-3835

2. COMPOSITION/INFORMATION ON INGREDIENTS

100.0 % CHEVRON Rykon Premium Oil

CONTAINING

COMPONENTS AMOUNT LIMIT/QTY AGENCY/TYPE

LUBRICATING BASE OIL CONTAINING ONE OR MORE OF THE FOLLOWING
> 85.00%

HYDROTREATED DIST., HVY PARA

Chemical Name: DISTILLATES, HYDROTREATED HEAVY PARAFFINIC
CAS64742547 > 85.00% 5 mg/m3 (mist) ACGIH TWA
10 mg/m3 (mist) ACGIH STEL
5 mg/m3 (mist) OSHA PEL

DISTILLATES, HYDROTREATED

Chemical Name: DISTILLATES, (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC
CAS64742558 5 mg/m3 (mist) ACGIH TWA
10 mg/m3 (mist) ACGIH STEL
5 mg/m3 (mist) OSHA PEL

ADDITIVES INCLUDING THE FOLLOWING

< 15.00%

ZINC ALKYL DITHIOPHOSPHATE

Chemical Name: PHOSPHORODITHIOIC ACID, O, O-DI-C1-14-ALKYL ESTERS, ZINC SALT
CAS68649423 < 1.00% NONE NA

COMPOSITION COMMENT:

All the components of this material are on the Toxic Substances Control Act Chemical Substances Inventory.

This product fits the ACGIH definition for mineral oil mist. The ACGIH TLV is 5 mg/m3, the OSHA PEL is 5 mg/m3.

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYE:

Not expected to cause prolonged or significant eye irritation.

SKIN:

Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin. High-Pressure Equipment Information: Accidental high-velocity injection under the skin of materials of this type may result in serious injury. Seek medical attention at once should an accident like this occur. The initial wound at the injection site may not appear to be serious at first; but, if left untreated, could result in disfigurement or amputation of the affected part.

INGESTION:

Not expected to be harmful if swallowed.

INHALATION:

Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit.

4. FIRST AID MEASURES

EYE:

No specific first aid measures are required because this material is not expected to cause eye irritation. As a precaution remove contact lenses,

if worn, and flush eyes with water.

SKIN:

No specific first aid measures are required because this material is not expected to be harmful if it contacts the skin. As a precaution, remove clothing and shoes if contaminated. Use a waterless hand cleaner, mineral oil, or petroleum jelly to remove the material. Then wash skin with soap and water. Wash or clean contaminated clothing and shoes before reuse.

INGESTION:

No specific first aid measures are required because this material is not expected to be harmful if swallowed. Do not induce vomiting. As a precaution, give the person a glass of water or milk to drink and get medical advice. Never give anything by mouth to an unconscious person.

INHALATION:

If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

NOTE TO PHYSICIANS:

In an accident involving high-pressure equipment, this product may be injected under the skin. Such an accident may result in a small, sometimes bloodless, puncture wound. However, because of its driving force, material injected into a fingertip can be deposited into the palm of the hand. Within 24 hours, there is usually a great deal of swelling, discoloration, and intense throbbing pain. Immediate treatment at a surgical emergency center is recommended.

5. FIRE FIGHTING MEASURES

SPECIAL NOTES: Leaks/ruptures in high pressure systems using materials of this type can create a fire hazard when in the vicinity of ignition sources (eg. open flame, pilot lights, sparks, or electric arcs).

FIRE CLASSIFICATION:

Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

FLAMMABLE PROPERTIES:

FLASH POINT: (COC) 338-424F (170-218C) min.

AUTOIGNITION: NDA

FLAMMABILITY LIMITS (% by volume in air): Lower: NA Upper: NA

EXTINGUISHING MEDIA:

CO₂, Dry Chemical, Foam, Water Fog.

NFPA RATINGS: Health 1; Flammability 1; Reactivity 0.

FIRE FIGHTING INSTRUCTIONS:

This material will burn although it is not easily ignited.

COMBUSTION PRODUCTS:

Normal combustion forms carbon dioxide, water vapor and may produce oxides of sulfur and nitrogen. Incomplete combustion can produce carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

CHEMTREC EMERGENCY NUMBER (24 hr): (800)424-9300 or (703)527-3887

International Collect Calls Accepted

ACCIDENTAL RELEASE MEASURES:

Stop the source of the leak or release. Clean up releases as soon as possible, observing precautions in Exposure Controls/Personal Protection. Contain liquid to prevent further contamination of soil, surface water or groundwater. Clean up small spills using appropriate techniques such as

sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Follow prescribed procedures for reporting and responding to larger releases.

7. HANDLING AND STORAGE

DO NOT USE IN HIGH PRESSURE SYSTEMS in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed.

Drum is not designed to contain pressure. Do not use pressure to empty drum or drum may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner, or properly disposed of. Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

ENGINEERING CONTROLS

Use in a well-ventilated area. If user operations generate an oil mist, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended mineral oil mist exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION:

No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

SKIN PROTECTION:

No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances. Suggested materials for protective gloves include: <Viton> <Nitrile> <Silver Shield>

RESPIRATORY PROTECTION:

No respiratory protection is normally required. If user operations generate an oil mist, determine if airborne concentrations are below the recommended mineral oil mist exposure limits. If not wear a NIOSH approved respirator that provides adequate protection from measured concentrations of this material. Use the following elements for air-purifying respirators: particulate.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION:

Pale yellow liquid.

pH: NDA

VAPOR PRESSURE: NA

VAPOR DENSITY

(AIR=1): NA

BOILING POINT: NA

FREEZING POINT: NDA

MELTING POINT: NA

SOLUBILITY: Soluble in hydrocarbon solvents; insoluble in water.

SPECIFIC GRAVITY: 0.86 - 0.87 @ 15.6/15.6C

EVAPORATION RATE: NA

VISCOSITY: 28.8 - 90.0 cSt @ 40C (Min.)

PERCENT VOLATILE

(VOL): NA

10. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS:

H₂S may be released at high temperatures.

CHEMICAL STABILITY:

Stable.

CONDITIONS TO AVOID:

No data available.

INCOMPATIBILITY WITH OTHER MATERIALS:

May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

HAZARDOUS POLYMERIZATION:

Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS:

The eye irritation hazard is based on data for a similar material.

SKIN EFFECTS:

The skin irritation hazard is based on data for a similar material.

ACUTE ORAL EFFECTS:

The acute oral toxicity is based on data for a similar material.

ACUTE INHALATION EFFECTS:

The acute respiratory toxicity is based on data for a similar material.

ADDITIONAL TOXICOLOGY INFORMATION:

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

No data available.

ENVIRONMENTAL FATE:

No data available.

13. DISPOSAL CONSIDERATIONS

Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

14. TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT SHIPPING NAME: NONE

DOT HAZARD CLASS: NONE

DOT IDENTIFICATION NUMBER: NONE

DOT PACKING GROUP: N/A

ADDITIONAL INFO: Petroleum Lubricating Oil - Not Hazardous by U.S. DOT.
ADR/RID Hazard class - Not applicable.

15. REGULATORY INFORMATION

SARA 311 CATEGORIES: 1. Immediate (Acute) Health Effects: NO
2. Delayed (Chronic) Health Effects: NO
3. Fire Hazard: NO
4. Sudden Release of Pressure Hazard: NO
5. Reactivity Hazard: NO

REGULATORY LISTS SEARCHED:

01=SARA 313 11=NJ RTK 22=TSCA Sect 5(a)(2)
02=MASS RTK 12=CERCLA 302.4 23=TSCA Sect 6
03=NTP Carcinogen 13=MN RTK 24=TSCA Sect 12(b)
04=CA Prop 65-Carcin 14=ACGIH TWA 25=TSCA Sect 8(a)
05=CA Prop 65-Repro Tox 15=ACGIH STEL 26=TSCA Sect 8(d)
06=IARC Group 1 16=ACGIH Calc TLV 27=TSCA Sect 4(a)
07=IARC Group 2A 17=OSHA PEL 28=Canadian WHMIS
08=IARC Group 2B 18=DOT Marine Pollutant 29=OSHA CEILING
09=SARA 302/304 19=Chevron TWA 30=Chevron STEL
10=PA RTK 20=EPA Carcinogen

The following components of this material are found on the regulatory lists indicated.

DISTILLATES, HYDROTREATED HEAVY PARAFFINIC
is found on lists: 14,15,17,
DISTILLATES, (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC
is found on lists: 02,14,15,17,
PHOSPHORODITHIOIC ACID,O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS
is found on lists: 01,11,

EU RISK AND SAFETY LABEL PHRASES:

May cause long-term adverse effects in the aquatic environment.

NEW JERSEY RTK CLASSIFICATION:

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A.
34:5A-1 et. seq., the product is to be identified as follows:

PETROLEUM OIL

WHMIS CLASSIFICATION:

This product is not considered a controlled product according to the
criteria of the Canadian Controlled Products Regulations.

16. OTHER INFORMATION

NFPA RATINGS: Health 1; Flammability 1; Reactivity 0;
HMIS RATINGS: Health 1; Flammability 1; Reactivity 0;
(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal
Protection Equipment Index recommendation, *- Chronic Effect
Indicator). These values are obtained using the guidelines or
published evaluations prepared by the National Fire Protection
Association (NFPA) or the National Paint and Coating Association
(for HMIS ratings).

REVISION STATEMENT:

This is a new Material Safety Data Sheet.

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value TWA - Time Weighted Average
STEL - Short-term Exposure Limit TPQ - Threshold Planning Quantity
RQ - Reportable Quantity PEL - Permissible Exposure Limit
C - Ceiling Limit CAS - Chemical Abstract Service Number
A1-5 - Appendix A Categories () - Change Has Been Proposed
NDA - No Data Available NA - Not Applicable

Prepared according to the OSHA Hazard Communication Standard
(29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the Toxicology
and Health Risk Assessment Unit, CRTC, P.O. Box 1627, Richmond, CA 94804

The above information is based on the data of which we are aware and is
believed to be correct as of the date hereof. Since this information may
be applied under conditions beyond our control and with which we may be
unfamiliar and since data made available subsequent to the date hereof may
suggest modification of the information, we do not assume any responsibil-
ity for the results of its use. This information is furnished upon
condition that the person receiving it shall make his own determination
of the suitability of the material for his particular purpose.

THIS IS THE LAST PAGE OF THIS MSDS

LOCTITE(R*)

MATERIAL SAFETY DATA SHEET

HENKEL TECHNOLOGIES

REVISION DATE: 04/12/2006

ISSUE DATE: 04/12/2006

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: LOCTITE(R) 242(R) THREADLOCKER MEDIUM STRENGTH

ITEM NO.: 24221

PRODUCT TYPE: ANAEROBIC SEALANT

REGION: UNITED STATES

COMPANY ADDRESS:
HENKEL CORPORATION
1001 TROUT BROOK CROSSING
ROCKY HILL, CONNECTICUT 06067

CONTACT INFORMATION:

TELEPHONE: 860.571.5100

EMERGENCY TELEPHONE: 860.571.5100

INTERNET: WWW.LOCTITE.COM

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	%	ACGIH TLV	OSHA PEL	OTHER
POLYGLYCOL DIMETHACRYLATE 25852-47-5	60-100	NONE	NONE	NONE
POLYGLYCOL OLEATE 9004-96-0	10-30	NONE	NONE	NONE
SACCHARIN 81-07-2	1-5	NONE	NONE	NONE
SILICA, AMORPHOUS, FUMED, TWA CRYSTALLINE-FREE RESPIRABLE 112945-52-5	1-5	6 MG/M3 TWA	10 MG/M3 TWA	3 MG/M3 DUST
CUMENE HYDROPEROXIDE	1-5	NONE	NONE	1 PPM

80-15-9 MG/M3)				(6
(WEEL),				SKIN
SKIN				1 PPM,
(WEEL)				TWA,
PROPYLENE GLYCOL MG/M3	1-5	NONE	NONE	10
57-55-6 (WEEL)				TWA,

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

PHYSICAL STATE: LIQUID

COLOR: BLUE

ODOR: MILD

HMIS:

HEALTH 2*
 FLAMMABILITY 1
 PHYSICAL HAZARD 1
 PERSONAL PROTECTION SEE SECTION 8

WARNING:

CAUSES EYE IRRITATION.
 MAY CAUSE SKIN IRRITATION.
 MAY CAUSE ALLERGIC SKIN REACTION.
 MAY CAUSE RESPIRATORY TRACT IRRITATION.

RELEVANT ROUTES OF EXPOSURE: SKIN, INHALATION, EYES

POTENTIAL HEALTH EFFECTS:

INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION.

SKIN CONTACT: MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE SKIN IRRITATION.

EYE CONTACT: CONTACT WITH EYES WILL CAUSE IRRITATION.

INGESTION: NOT EXPECTED TO BE HARMFUL BY INGESTION.

EXISTING CONDITIONS AGGRAVATED BY EXPOSURE:
 EYE, SKIN, AND RESPIRATORY DISORDERS.

SEE SECTION 11 FOR ADDITIONAL TOXICOLOGICAL INFORMATION.

4. FIRST AID MEASURES

INHALATION:

REMOVE TO FRESH AIR. IF SYMPTOMS DEVELOP AND PERSIST, GET MEDICAL ATTENTION.

SKIN CONTACT:

WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE REUSE. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR.

EYE CONTACT:

FLUSH WITH COPIOUS AMOUNTS OF WATER, PREFERABLY, LUKEWARM WATER FOR AT LEAST

15 MINUTES, HOLDING EYELIDS OPEN ALL THE TIME. GET MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING. KEEP INDIVIDUAL CALM. OBTAIN MEDICAL ATTENTION.

5. FIREFIGHTING MEASURES

FLASH POINT: GREATER THAN 93 DEG. C (200 DEG. F) TAGLIABUE CLOSED CUP

AUTOIGNITION TEMPERATURE: NOT AVAILABLE

FLAMMABLE/EXPLOSIVE LIMITS-LOWER %: 2.6% (PROPYLENE GLYCOL)

FLAMMABLE/EXPLOSIVE LIMITS-UPPER %: 12.5% (PROPYLENE GLYCOL)

EXTINGUISHING MEDIA: FOAM, DRY CHEMICAL OR CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES: NONE

UNUSUAL FIRE OR EXPLOSION HAZARDS: NONE

HAZARDOUS COMBUSTION PRODUCTS:

OXIDES OF CARBON. OXIDES OF SULFUR. OXIDES OF NITROGEN. IRRITATING ORGANIC VAPORS.

6. ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL PRECAUTIONS:

PREVENT PRODUCT FROM ENTERING DRAINS OR OPEN WATERS.

CLEAN-UP METHODS:

SOAK UP WITH INERT ABSORBENT. STORE IN A PARTLY FILLED, CLOSED CONTAINER

UNTIL DISPOSAL.

7. HANDLING AND STORAGE

HANDLING:

AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING VAPOR AND MIST.

WASH THOROUGHLY AFTER HANDLING.

STORAGE:

FOR SAFE STORAGE, STORE AT OR BELOW 38 DEG. C (100 DEG. F). KEEP IN A COOL,

WELL VENTILATED AREA AWAY FROM HEAT, SPARKS AND OPEN FLAME. KEEP CONTAINER

TIGHTLY CLOSED UNTIL READY FOR USE.

INCOMPATIBLE PRODUCTS: REFER TO SECTION 10.

FOR INFORMATION ON PRODUCT SHELF LIFE CONTACT HENKEL CUSTOMER SERVICE AT

(800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

NO SPECIFIC VENTILATION REQUIREMENTS NOTED, BUT FORCED VENTILATION MAY STILL BE REQUIRED IF CONCENTRATIONS EXCEED OCCUPATIONAL EXPOSURE LIMITS.

RESPIRATORY PROTECTION:

USE NIOSH APPROVED RESPIRATOR IF THERE IS POTENTIAL TO EXCEED EXPOSURE LIMIT(S).

SKIN PROTECTION:

USE IMPERMEABLE GLOVES AND PROTECTIVE CLOTHING AS NECESSARY TO PREVENT SKIN

CONTACT. NEOPRENE GLOVES. BUTYL RUBBER GLOVES. NATURAL RUBBER GLOVES.

EYE/FACE PROTECTION: SAFETY GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS.

SEE SECTION 2 FOR EXPOSURE LIMITS.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: LIQUID

COLOR: BLUE

ODOR: MILD

VAPOR PRESSURE: LESS THAN 5 MMHg AT 27 DEG. C (80 DEG. F)

pH: NOT APPLICABLE

BOILING POINT/RANGE: GREATER THAN 149 DEG. C (300 DEG. F)

MELTING POINT/RANGE: NOT AVAILABLE

SPECIFIC GRAVITY: 1.1 AT 23.9 DEG. C (75 DEG. F)

VAPOR DENSITY: NOT AVAILABLE

EVAPORATION RATE: NOT AVAILABLE

SOLUBILITY IN WATER: SLIGHT

PARTITION COEFFICIENT (n-OCTANOL/WATER): NOT AVAILABLE

VOC CONTENT: 4.48%; 49.3 GRAMS/LITER (EPA METHOD 24)

10. STABILITY AND REACTIVITY

STABILITY: STABLE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS:
OXIDES OF CARBON. OXIDES OF SULFUR. OXIDES OF NITROGEN. IRRITATING ORGANIC VAPORS.

INCOMPATIBILITY:
STRONG OXIDIZERS. FREE RADICAL INITIATORS. STRONG REDUCING AGENTS. ALKALIS.
OXYGEN SCAVENGERS. OTHER POLYMERIZATION INITIATORS. COPPER. IRON. ZINC. ALUMINUM. RUST.

CONDITIONS TO AVOID:
SEE "HANDLING AND STORAGE" (SECTION 7) AND "INCOMPATIBILITY" (SECTION 10).

11. TOXICOLOGICAL INFORMATION

PRODUCT TOXICITY DATA:

ACUTE ORAL LD50: GREATER THAN 10,000 MG/KG (RAT).

ACUTE DERMAL LD50: GREATER THAN 5000 MG/KG (RABBIT).

CARCINOGEN STATUS:

HAZARDOUS COMPONENTS CARCINOGEN	NTP CARCINOGEN	IARC CARCINOGEN	OSHA
POLYGLYCOL DIMETHACRYLATE 25852-47-5	NO	NO	NO
POLYGLYCOL OLEATE 9004-96-0	NO	NO	NO
SACCHARIN 81-07-2	NO	NO	NO

SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE 112945-52-5	NO	NO	NO
CUMENE HYDROPEROXIDE 80-15-9	NO	NO	NO
PROPYLENE GLYCOL 57-55-6	NO	NO	NO

LITERATURE REFERENCED TARGET ORGAN & OTHER HEALTH EFFECTS:

HAZARDOUS COMPONENTS	HEALTH EFFECTS TARGET ORGANS
POLYGLYCOL DIMETHACRYLATE 25852-47-5	ALLERGEN, IRRITANT
POLYGLYCOL OLEATE 9004-96-0	IRRITANT
SACCHARIN 81-07-2	NO TARGET ORGANS
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE 112945-52-5	NUISANCE DUST
CUMENE HYDROPEROXIDE CORROSIVE, 80-15-9	ALLERGEN, CENTRAL NERVOUS SYSTEM, IRRITANT, MUTAGEN
PROPYLENE GLYCOL 57-55-6	IRRITANT

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: NOT AVAILABLE

13. DISPOSAL CONSIDERATIONS

INFORMATION PROVIDED IS FOR UNUSED PRODUCT ONLY.

RECOMMENDED METHOD OF DISPOSAL:
DISPOSE OF ACCORDING TO FEDERAL, STATE AND LOCAL GOVERNMENTAL
REGULATIONS.

EPA HAZARDOUS WASTE NUMBER: NOT A RCRA HAZARDOUS WASTE.

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION GROUND (49 CFR):

PROPER SHIPPING NAME: UNRESTRICTED
HAZARD CLASS OR DIVISION: NONE
IDENTIFICATION NUMBER: NONE
PACKING GROUP: NONE

INTERNATIONAL AIR TRANSPORTATION (ICAO/IATA):
PROPER SHIPPING NAME: UNRESTRICTED
HAZARD CLASS OR DIVISION: NONE
IDENTIFICATION NUMBER: NONE
PACKING GROUP: NONE

WATER TRANSPORTATION (IMO/IMDG):
PROPER SHIPPING NAME: UNRESTRICTED
HAZARD CLASS OR DIVISION: NONE
IDENTIFICATION NUMBER: NONE
PACKING GROUP: NONE
MARINE POLLUTANT: NONE

15. REGULATORY INFORMATION

UNITED STATES REGULATORY INFORMATION:

TSCA 8(B) INVENTORY STATUS:
ALL COMPONENTS ARE LISTED OR ARE EXEMPT FROM LISTING ON THE TOXIC
SUBSTANCES
CONTROL ACT INVENTORY.

TSCA 12(B) EXPORT NOTIFICATION: 4-METHOXYPHENOL (150-76-5).

CERCLA/SARA SECTION 302 EHS: NONE ABOVE REPORTING DE MINIMUS.

CERCLA/SARA SECTION 311/312: IMMEDIATE HEALTH HAZARD, DELAYED HEALTH
HAZARD

CERCLA/SARA 313:
THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE
REPORTING
REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY
RIGHT-TO-KNOW ACT OF 1986 (40 CFR 372). CUMENE HYDROPEROXIDE (CAS# 80-
15-9).

CALIFORNIA PROPOSITION 65:
THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO
CAUSE
CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

CANADA REGULATORY INFORMATION:

CEPA DSL/NDSL STATUS:
ALL COMPONENTS ARE LISTED ON OR ARE EXEMPT FROM LISTING ON THE DOMESTIC
SUBSTANCES LIST.

WHMIS HAZARD CLASS: D.2.B

16. OTHER INFORMATION

THIS MATERIAL SAFETY DATA SHEET CONTAINS CHANGES FROM THE PREVIOUS VERSION

IN SECTIONS: 15

PREPARED BY:

KYRA KOZAK WOODS, PRODUCT SAFETY AND REGULATORY AFFAIRS SPECIALIST

DISCLAIMER:

THE DATA CONTAINED HEREIN ARE FURNISHED FOR INFORMATION ONLY AND ARE BELIEVED TO BE RELIABLE. HOWEVER, HENKEL CORPORATION DOES NOT ASSUME RESPONSIBILITY FOR ANY RESULTS OBTAINED BY PERSONS OVER WHOSE METHODS HENKEL

CORPORATION HAS NO CONTROL. IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE

SUITABILITY OF HENKEL'S PRODUCTS OR ANY PRODUCTION METHODS MENTIONED HEREIN

FOR A PARTICULAR PURPOSE, AND TO ADOPT SUCH PRECAUTIONS AS MAY BE ADVISABLE

FOR THE PROTECTION OF PROPERTY AND PERSONS AGAINST ANY HAZARDS THAT MAY BE

INVOLVED IN THE HANDLING AND USE OF ANY OF HENKEL CORPORATION'S PRODUCTS. IN

LIGHT OF THE FOREGOING, HENKEL CORPORATION SPECIFICALLY DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND

FITNESS FOR A PARTICULAR PURPOSE, ARISING FROM SALE OR USE OF HENKEL CORPORATION'S PRODUCTS. HENKEL CORPORATION FURTHER DISCLAIMS ANY LIABILITY

FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES OF ANY KIND, INCLUDING LOST PROFITS.

Genie Industries, Inc.
Redmond

C704 NCP-2 BATTERY TERMINAL PROTECTOR			NOCO
FileName	Language	Internal ID	Revision Date
000009	English		6/7/2005
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SECTION X HAZARDOUS MATERIAL IDENTIFICATION			
Hazards		MSDS State	
	NFPA	HMIS	<i>(Active)</i>
Health		1	
Flammability		1	
Reactivity		0	
Other		B	

MSDS

MATERIAL SAFETY DATA SHEET

900701

SECTION I PRODUCT & COMPANY IDENTIFICATION

PRODUCT NUMBER: 900701

PRODUCT NAME: C704 NOCO(R*) NCP-2 BATTERY TERMINAL PROTECTOR

HMIS CODES:

HEALTH 1

FLAMMABILITY 1

REACTIVITY 0

MANUFACTURER'S NAME:

THE NOCO(R*) COMPANY

CLEVELAND, OH 44122

EMERGENCY TELEPHONE NO.: (800) 424-9300

INFORMATION TELEPHONE NO.: (800) 456-6626

DATE OF PREPARATION: 07-JUNE-05

SECTION II HAZARDOUS INGREDIENTS

% BY WT	CAS NO.	INGREDIENT	PEL PPM	TLV PPM	TLV MG/M3	UEL
90	PROPRIETARY	MINERAL OIL	NONE	NONE	5.0	N/A

SARA HAZARD: NONE (NOT LISTED - TITLE III, SECTION 313)

CARCINOGENICITY:

THIS PRODUCT IS NOT CONSIDERED A SUSPECTED ANIMAL CARCINOGEN BY THE NATIONAL TOXICITY PROGRAM, THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER, OR THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.

PURSUANT TO PROPOSITION 65:

CERTAIN RAW MATERIALS USED IN MAKING THIS PRODUCT MAY CONTAIN SMALL AMOUNTS OF MATERIALS AS IMPURITIES WHICH ARE REGULATED BY PROPOSITION 65. SEE SECTION X.

SECTION III PHYSICAL DATA

BOILING RANGE: ABOVE 900 DEG. F

VAPOR DENSITY: HEAVIER THAN AIR

SPECIFIC GRAVITY: .970

APPEARANCE & ODOR: RED, LUBRICANT-LIKE

SOLUBILITY IN WATER: NO

EVAPORATION RATE: SLOWER THAN ETHER

VOLATILE: NEGLIGIBLE

SECTION IV FIRE & EXPLOSION HAZARDS

FLASH POINT: 475-COCF

LEL: SEE SECTION II

UEL: SEE SECTION II

EXTINGUISHING MEDIA:

EXTINGUISH WITH DRY CHEMICAL, CO₂, WATER SPRAY, FOAM, SAND OR EARTH AND FOAM MAY CAUSE FROTHING. NOTE THAT WHILE WATER FOG EXTINGUISHERS ARE ALSO ACCEPTABLE, DO NOT APPLY A DIRECT STREAM OF WATER ON BURNING PRODUCT BECAUSE IT MAY CAUSE SPREADING & INCREASE FIRE INTENSITY.

SPECIAL FIRE FIGHTING PROCEDURES:

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.

UNUSUAL HAZARDS: NONE KNOWN

SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: (SEE SECTION II HAZARDOUS INGREDIENTS)

ROUTES OF ENTRY:

INHALATION: NO

SKIN: YES

INGESTION: YES

EFFECTS OF OVEREXPOSURE:

SKIN:

SHORT TERM SKIN CONTACT IS NOT EXPECTED TO CAUSE SKIN IRRITATION.

PROLONGED OR REPEATED CONTACT MAY CAUSE REDNESS, BURNING, AND DERMATITIS.

EYE:

THIS MATERIAL MAY CAUSE EYE IRRITATION. DIRECT CONTACT MAY CAUSE BURNING, TEARING AND REDNESS.

INHALATION:

THIS PRODUCT HAS LOW VOLATILITY AND SO IS NOT EXPECTED TO CAUSE RESPIRATORY TRACT IRRITATION.

INGESTION:

INGESTION OF THIS MATERIAL MAY CAUSE IRRITATION OF THE DIGESTIVE TRACT.

CHRONIC:

CANCER: NO INFORMATION FOUND IN STANDARD REFERENCES.

EMERGENCY AND FIRST AID PROCEDURES:

INGESTION:

IF SWALLOWED DO NOT INDUCE VOMITING, GIVE 2 OR 3 CUPS OF MILK OR WATER TO DRINK. SEEK MEDICAL ATTENTION.

INHALATION:

IF IRRITATION OF NOSE OR THROAT DEVELOPS, MOVE AWAY FROM SOURCE OF EXPOSURE AND INTO FRESH AIR.

EYE CONTACT:

FOR DIRECT CONTACT, FLUSH THE AFFECTED EYE(S) WITH GENTLE STREAM OF CLEAN WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.

SKIN CONTACT:

DO NOT USE GASOLINES, THINNERS, OR SOLVENTS TO REMOVE PRODUCTS FROM SKIN. WIPE MATERIAL FROM SKIN AND REMOVE CONTAMINATED CLOTHING. CLEANSE AFFECTED AREA(S) THOROUGHLY BY WASHING WITH MILD SOAP AND WATER AND, IF NECESSARY, A WATERLESS SKIN CLEANER. IF IRRITATION OR REDNESS DEVELOPS AND PERSISTS, SEEK MEDICAL ATTENTION.

SECTION VI REACTIVITY DATA

STABILITY: STABLE

INCOMPATIBILITY:

AVOID CONTACT WITH STRONG OXIDIZING AGENTS. EXTENDED EXPOSURE TO HIGH TEMPERATURES MAY CAUSE DECOMPOSITION.

HAZARDOUS DECOMPOSITION PRODUCTS:

THERMAL DECOMPOSITION IN THE PRESENCE OF AIR MAY YIELD MAJOR AMOUNTS OF OXIDES OF CARBON AND MINOR AMOUNTS OF OXIDES OF SULFUR AND NITROGEN.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VII SPILL OR LEAKAGE PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

WASH DOWN ANY EXCESS LIQUID WITH WATER.

WASTE DISPOSAL METHOD:

DISPOSE OF PRODUCT IN ACCORDANCE WITH LOCAL, COUNTY, STATE AND FEDERAL REGULATIONS.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: NONE

PROTECTIVE GLOVES: RECOMMENDED FOR PROLONGED OR REPEATED CONTACT.

EYE PROTECTION: SAFETY GLASSES

VENTILATION: NONE

OTHER PROTECTIVE EQUIPMENT: NONE

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

DO NOT STORE NEAR INCOMPATIBLE SUBSTANCES. (SEE SECTION VI)

OTHER PRECAUTIONS: NONE

PURSUANT TO PROPOSITION 65:

PROPOSITION 65 APPLIES TO LIST OF CHEMICALS NAMED BY THE GOVERNOR OF CALIFORNIA AS CARCINOGENS OR REPRODUCTIVE TOXINS.

WARNING REQUIREMENTS FOR SPECIFIC CHEMICALS TAKE EFFECT ONE YEAR AFTER THEY ARE ADDED TO THE GOVERNOR'S LIST. OTHER CHEMICALS ALREADY ADDED TO THE GOVERNOR'S LIST WILL BE REGULATED LATER UNDER PROPOSITION 65.

SECTION X HAZARDOUS MATERIAL IDENTIFICATION

COMMUNICATION OF PHYSICAL PROPERTIES, HEALTH, AND SAFETY INFORMATION IS A KEY FACTOR IN OUR PRODUCT SAFETY PROGRAM. WITH THIS INFORMATION YOU CAN BETTER FULFILL YOUR OBLIGATION TO EDUCATE EXPOSED PERSONNEL IN THE PROPER HANDLING TECHNIQUES REQUIRED TO MAINTAIN SAFETY IN THE WORKPLACE. LISTED IN THIS SECTION IS NPCA-HMIS CLASSIFICATION FOR THIS PRODUCT.

HMIS CLASSIFICATION CODE:

HEALTH	1 - SLIGHT HAZARD
FLAMMABILITY	1 - SLIGHT HAZARD
REACTIVITY	0 - LEAST HAZARD
PERSONAL PROTECTION	B - GLASSES AND GLOVES

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 AFFECT 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.

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NYOGEL 760G

PRODUCT: 760G

REVISION DATE: 2003/02/10

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER:
NYE LUBRICANTS, INC.
12 HOWLAND ROAD
FAIRHAVEN, MA 02719
U.S.A.

MANUFACTURER EMERGENCY PHONE NUMBER:
CHEMTREC*:
800-424-9300.
508-996-6721 (8:00 AM - 5:00 PM ET WEEKDAYS).

PRODUCT NAME: NYOGEL 760G.

CHEMICAL FAMILY: LUBRICATING GREASE.

HMIS:
H 1
F 1
R 0
PPE SEC. 8

SECTION 2: INGREDIENT INFORMATION

C.A.S.	CONC %	INGREDIENT	OSHA-PEL	OSHA-PEL	ACGIH-TLV	
ACGIH-TLV	WGT/WGT	NAME	TWA	STEL	TWA	STEL
		OIL MIST	5 MG/M3	NOT AVAILABLE	5 MG/M3	NOT AVAILABLE

INGREDIENT NAME	NIOSH REL TWA	NIOSH REL STEL	NIOSH IDLH
OIL MIST	5 MG/M3	10 MG/M3	2500 MG/M3

SECTION 2A: ADDITIONAL INGREDIENT INFORMATION

NOTE:
PRODUCT FORMULATION IS PROPRIETARY.
NO INGREDIENTS ARE KNOWN TO BE HAZARDOUS UNDER NORMAL USAGE.

SECTION 3: HAZARD IDENTIFICATION

EMERGENCY OVERVIEW:

MAY IRRITATE EYES. PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE IRRITATION.

INHALATION OF OIL MIST OR VAPORS FROM MATERIAL AT HIGH TEMPERATURES MAY IRRITATE RESPIRATORY PASSAGES.

ROUTE OF ENTRY: SKIN CONTACT, EYE CONTACT, INHALATION AND INGESTION.

EFFECTS OF ACUTE EXPOSURE:

EYE CONTACT: MAY CAUSE IRRITATION.

SKIN CONTACT: MAY CAUSE IRRITATION ON PROLONGED OR REPEATED CONTACT.

INHALATION:

OIL MIST AND VAPORS AT HIGH TEMPERATURES MAY IRRITATE RESPIRATORY PASSAGES.

INGESTION: MAY CAUSE GASTRO-INTESTINAL IRRITATION.

EFFECTS OF CHRONIC EXPOSURE: SEE EFFECTS OF ACUTE EXPOSURE.

CARCINOGENIC EFFECTS:

IARC, NTP, AND OSHA DO NOT LIST THIS PRODUCT OR ITS INGREDIENTS AS CARCINOGENS.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NONE KNOWN.

TARGET ORGANS: RESPIRATORY PASSAGES AT HIGH TEMPERATURES, EYES, SKIN.

SECTION 4: FIRST AID MEASURES

SKIN CONTACT:

REMOVE CONTAMINATED CLOTHING.

WASH THOROUGHLY WITH SOAP AND WATER.

SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

EYE CONTACT:

FLUSH WITH WATER FOR AT LEAST 15 MINUTES.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

INHALATION:

REMOVE VICTIM TO FRESH AIR. IF NOT BREATHING, QUALIFIED PERSONNEL SHOULD

ADMINISTER ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION.

IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN.

INGESTION:

OBTAIN IMMEDIATE MEDICAL ATTENTION.

DO NOT INDUCE VOMITING, UNLESS DIRECTED TO DO SO BY A PHYSICIAN.

SECTION 5: FIRE FIGHTING MEASURES

FLAMMABILITY: NOT FLAMMABLE.

CONDITIONS OF FLAMMABILITY: AT TEMPERATURES AT OR ABOVE FLASH POINT.

EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL, FOAM. WATER SPRAY.

SPECIAL PROCEDURES:

SELF-CONTAINED BREATHING APPARATUS REQUIRED.

FIREFIGHTERS SHOULD WEAR THE USUAL PROTECTIVE GEAR.

DO NOT LET FIREFIGHTING WATER RUNOFF ENTER A SEWER.

AUTO-IGNITION TEMPERATURE: NOT AVAILABLE.

FLASH POINT (DEG. C), METHOD:

CLOSED CUP.

ASTM D-93.

>400 DEG. F (204 DEG. C).

LOWER FLAMMABILITY LIMIT (% VOL): NOT AVAILABLE.

UPPER FLAMMABILITY LIMIT (% VOL): NOT AVAILABLE.

EXPLOSION DATA:

SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE.

SENSITIVITY TO MECHANICAL IMPACT: NOT AVAILABLE.

HAZARDOUS COMBUSTION PRODUCTS:

CARBON MONOXIDE (CO).

TRACES OF OTHER TOXIC FUMES.

RATE OF BURNING: NOT AVAILABLE.

EXPLOSIVE POWER: NOT AVAILABLE.

SECTION 6: ACCIDENTAL RELEASE MEASURES

LEAK/SPILL:

CONTAIN THE SPILL.

PREVENT ENTRY INTO DRAINS, SEWERS, AND OTHER WATERWAYS.

AREA WILL BE SLIPPERY UNTIL CLEANED.

WEAR APPROPRIATE PROTECTIVE EQUIPMENT.

WIPE OR SCRAPE UP SPILLED MATERIAL.

WASH SPILL AREA AFTER MATERIAL PICK UP IS COMPLETE.

TRANSFER TO AN APPROVED CONTAINER FOR DISPOSAL OR RECOVERY.

OBSERVE PRECAUTIONS FROM OTHER SECTIONS.

FOLLOW APPLICABLE OSHA (29 CFR 1910.120), STATE AND LOCAL REGULATIONS.

SECTION 7: HANDLING AND STORAGE

HANDLING PROCEDURES AND EQUIPMENT:

WASH THOROUGHLY AFTER USING, PARTICULARLY BEFORE EATING OR SMOKING.

DO NOT EAT, DRINK OR SMOKE IN HANDLING AREA.

AVOID CONTAMINATION OF CIGARETTES OR OTHER TOBACCO PRODUCTS.

LAUNDRY CONTAMINATED CLOTHING PRIOR TO REUSE.

USERS SHOULD BE ALERT TO THE POSSIBILITY THAT VERY SMALL PERCENTAGES OF THE

POPULATION MAY DISPLAY UNEXPECTED ALLERGIC REACTIONS TO OTHERWISE INNOCUOUS

INDUSTRIAL LUBRICANTS AND RAW MATERIALS.

STORAGE REQUIREMENTS:

STORE AWAY FROM INCOMPATIBLE MATERIALS.

DO NOT STORE IN OPEN OR UNLABELLED CONTAINERS.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

PRECAUTIONARY MEASURES:

GLOVES/TYPE:

CHEMICAL RESISTANT GLOVES.

AVOID SKIN CONTACT.

RESPIRATORY/TYPE: NONE REQUIRED UNDER NORMAL USE.

IF EXPOSURE LIMIT IS EXCEEDED, WEAR A NIOSH APPROVED RESPIRATOR.

AVOID BREATHING OIL MIST.

EYE/TYPE: AVOID EYE CONTACT.

SAFETY GLASSES, GOGGLES OR FACE SHIELD.

IN ACCORDANCE WITH OSHA 29 CFR 1910.133.

FOOTWEAR/TYPE: SAFETY SHOES PER LOCAL REGULATIONS.

CLOTHING/TYPE: WEAR ADEQUATE PROTECTIVE CLOTHES.

APRON

OTHER/TYPE:

EYE WASH FACILITY SHOULD BE IN CLOSE PROXIMITY.

EMERGENCY SHOWER SHOULD BE IN CLOSE PROXIMITY.

VENTILATION REQUIREMENTS:

LOCAL VENTILATION IS GENERALLY NOT NECESSARY UNDER NORMAL CONDITIONS OF USE

WITH ADEQUATE GENERAL VENTILATION. VENTILATION AND OTHER FORMS OF ENGINEERING CONTROLS ARE THE PREFERRED MEANS FOR CONTROLLING CHEMICAL EXPOSURES.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: SEMI-SOLID.

APPEARANCE & ODOR:
SLIGHT ODOR.
CLEAR TO LIGHT YELLOW.
SMOOTH GREASE.

ODOR THRESHOLD (PPM): NOT AVAILABLE.

VAPOR PRESSURE (MMHg): NEGLIGIBLE.

VAPOR DENSITY (AIR=1): NOT AVAILABLE.

VOLATILES (%): NONE

EVAPORATION RATE (BUTYL ACETATE = 1): NOT AVAILABLE.

BOILING POINT (DEG. C): NOT VOLATILE.

FREEZING POINT (DEG. C): NON-MELTING.

pH: NOT AVAILABLE.

SPECIFIC GRAVITY @ 20 DEG. C: (WATER = 1, @ 4 DEG. C). 0.91 @ 25 DEG. C

SOLUBILITY IN WATER (%): INSOLUBLE.

COEFFICIENT OF WATER\OIL DIST.: NOT AVAILABLE.

VOC: NONE

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE UNDER NORMAL CONDITIONS.

CONDITIONS OF INSTABILITY: PYROLYSIS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

INCOMPATIBLE SUBSTANCES: STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS: SEE HAZARDOUS COMBUSTION PRODUCTS.

SECTION 11: TOXICOLOGICAL INFORMATION

SENSITIZATION TO PRODUCT: NOT AVAILABLE.

REPRODUCTIVE EFFECTS: NOT AVAILABLE.

TERATOGENICITY: NOT AVAILABLE.

MUTAGENICITY: NOT AVAILABLE.

SYNERGISTIC MATERIALS: NOT AVAILABLE.

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL TOXICITY: NO DATA AT THIS TIME.

ENVIRONMENTAL FATE: NO DATA AT THIS TIME.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

CONTACT A LICENSED WASTE-DISPOSAL CONTRACTOR FOR DETAILED RECOMMENDATIONS.

MANY STATES CLASSIFY WASTE LUBRICANTS AS "HAZARDOUS", WHICH MEANS DISPOSAL CAN ONLY BE A LICENSED FIRM. FOLLOW APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

SECTION 14: TRANSPORT INFORMATION

DOT: NOT REGULATED.

SECTION 15: REGULATORY INFORMATION

USA REGULATORY INFORMATION:

SARA HAZARD CATEGORIES SECTIONS 311/312:

IMMEDIATE (ACUTE) HEALTH HAZARD: NO.

DELAYED (CHRONIC) HEALTH HAZARD: NO.

FIRE HAZARD: NO.

SUDDEN RELEASE OF PRESSURE: NO.

REACTIVE: NO.

SARA SECTION 313: NOT REGULATED.

TSCA INVENTORY:

ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY.

SECTION 16: OTHER INFORMATION

SUPPLIER MSDS DATE: 2003/02/10

DATA PREPARED BY: GSM

DISCLAIMER:

WHILE THE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN ARE BELIEVED TO

BE ACCURATE AS OF THE DATE HEREOF, NYE LUBRICANTS, INC. MAKES NO
WARRANTY
WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY WITH RESPECT THEREON.

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U.S. DEPARTMENT OF LABOR
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

FORM APPROVED OMB NO.: 44-R1387

MATERIAL SAFETY DATA SHEET

REQUIRED UNDER USDL SAFETY AND HEALTH REGULATIONS FOR SHIP REPAIRING,
SHIPBUILDING, AND SHIPBREAKING (29 CFR 1915, 1916, 1917)

01/07/05

SECTION I

MANUFACTURER'S NAME: ORGANIC PRODUCTS COMPANY

ADDRESS (NUMBERS, STREET, CITY, STATE, AND ZIP CODE):
1963 E. IRVING BLVD.
IRVING, TEXAS 75060

TELEPHONE NUMBER FOR INFORMATION: (972) 438-7321

EMERGENCY TELEPHONE NUMBER:
CHEM-TEL: (800) 255-3924
OUTSIDE USA: (813) 248-0585

CHEMICAL NAME AND SYNONYMS: SENTRY SEAL

PAINT UN1263

TRADE NAME AND SYNONYMS: F-1000 SENTRY SEAL

CHEMICAL FAMILY: N/A

FORMULA: N/A

SECTION II HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (UNITS)
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PIGMENTS

CATALYST

VEHICLE

SOLVENTS

TOLUENE	30 - 60%	100 PPM
CAS: 108-88-3		

ADDITIVES

OTHERS

ALLOYS AND METALLIC COATINGS	%	TLV (UNITS)
BASE METAL		
ALLOYS		
METALLIC COATINGS		
FILLER METAL PLUS COATING OR CORE FLUX		
OTHERS		
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES (UNITS)	%	TLV

SECTION III PHYSICAL DATA

BOILING POINT (DEG. F.): 230 DEG. F

SPECIFIC GRAVITY (H₂O=1): .87

VAPOR PRESSURE (MMHg.) 65 DEG. F: 20

PERCENT, VOLATILE BY VOLUME (%):

VAPOR DENSITY (AIR=1): 3.2

EVAPORATION RATE (= 1): 2.4

SOLUBILITY IN WATER: NIL

APPEARANCE AND ODOR: AROMATIC ODOR, HEAVY THICK PASTE.

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): 45 DEG. F CLOSED

FLAMMABLE LIMITS:

LEL:

UEL:

EXTINGUISHING MEDIA: CARBON DIOXIDE OR DRY CHEMICAL, REGULAR FOAM.

SPECIAL FIRE FIGHTING PROCEDURES:

WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACE PIECE WITH PRESSURE ON DEMAND.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

KEEP AWAY FROM PILOT LIGHT, LIGHTS, FLAMES, SPARKS, HEATERS, SMOKERS.

SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: 100 PPM

EFFECTS OF OVEREXPOSURE:

FATIGUE, HEADACHE, MENTAL CONFUSION, STRONG DEGREASER OF SKIN. EYE SEVERE IRRITATION, UNCONSCIOUSNESS, NAUSEA IF SWALLOWED, VOMITING.

EMERGENCY AND FIRST AID PROCEDURES:

REMOVE TO FRESH AIR. WASH AND FLUSH AFFECTED AREAS WITH WATER AND SOAP, FLUSH EYES, DO NOT INDUCE VOMITING IF SWALLOWED. KEEP WARM AND QUIET; CALL FOR MEDICAL HELP.

SECTION VI REACTIVITY DATA

STABILITY:

UNSTABLE ()

STABLE (X)

CONDITIONS TO AVOID: AVOID HEAT, SPARKS, AND FIRES

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS:

HAZARDOUS POLYMERIZATION:

MAY OCCUR ()

WILL NOT OCCUR (X)

CONDITIONS TO AVOID:

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

ELIMINATE ALL IGNITION SOURCES, WEAR SUITABLE PROTECTIVE EQUIPMENT. COLLECT IN A FLAMMABLE WASTE CONTAINER FOR DISPOSAL.

WASTE DISPOSAL METHOD:

DESTROY BY LIQUID INCINERATION. USE ABSORBENT MATERIAL AND DEPOSIT IN TOXIC

LANDFILL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGS.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE):

AIR SUPPLIED MASKS IN CONFINED AREAS, IF LARGE QUANTITIES USED.

VENTILATION:

LOCAL EXHAUST: PREFERRED

MECHANICAL (GENERAL): ACCEPTABLE
SPECIAL:
OTHER:

PROTECTIVE GLOVES: YES, IF LARGE QUANTITIES USED, NITRILE RUBBER.

EYE PROTECTION: GOGGLES, IF LARGE QUANTITIES USED.

OTHER PROTECTIVE EQUIPMENT: SAFETY SHOWER AND EYE BATH.

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

WEAR RESISTANT GLOVES SUCH AS NITRILE RUBBER, EYE PROTECTION, CHEMICAL SPLASH GOGGLES, PROTECTIVE EQUIPMENT TO PREVENT PROLONGED SKIN CONTACT.

OTHER PRECAUTIONS:

*U.S. GOVERNMENT PRINTING OFFICE: 1981-340.979/429

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