

Conforms to HazCom 2012/United States

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

**PRODUCT IDENTIFIER(S)/ TRADEMARK(S)
USED ON THE LABEL:** 883 Anti-Corrosion Grease

OTHER MEANS OF IDENTIFICATION: Product Code – 10509

NSF H-1 REGISTRATION NUMBER: Not available.

RELEVANT IDENTIFIED USES OF THE SBSTANCE OR MIXTURE AND USES ADVSIED AGAINST

SECTION 2: HAZARDS IDENTIFICATION

OSHA/HCS STATUS: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

**CLASSIFICATION OF THE
SUBSTANCE OR MIXTURE:** Not classified.

GHS LABEL ELEMENTS

SIGNAL WORD: No signal word.

HAZARD STATEMENTS: No known significant effects or critical hazards.

PRECAUTIONARY STATEMENTS

GENERAL: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

PREVENTION: Not applicable.

RESPONSE: Not applicable.

STORAGE: Not applicable.

DISPOSAL: Not applicable.

**HAZARDS NOT OTHERWISE
CLASSIFIED:** None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE/MIXTURE: Mixture.
OTHER MEANS OF IDENTIFICATION: Not available.
CAS NUMBER/OTHER IDENTIFIERS
CAS NUMBER: Not applicable.
PRODUCT CODE: 10509

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: FIRST AID MEASURES

DESCRIPTION OF NECESSARY FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

INHALATION: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

SKIN CONTACT: Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.

INGESTION: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

MOST IMPORTANT SYMPTOMS/EFFECTS (ACUTE AND DELAYED)

POTENTIAL ACUTE HEALTH EFFECTS

EYE CONTACT: No known significant effects or critical hazards.
INHALATION: No known significant effects or critical hazards.
SKIN CONTACT: No known significant effects or critical hazards.
INGESTION: No known significant effects or critical hazards.

OVER-EXPOSURE SIGNS/SYMPTOMS

EYE CONTACT: No known significant effects or critical hazards.
INHALATION: No known significant effects or critical hazards.
SKIN CONTACT: No known significant effects or critical hazards.
INGESTION: No known significant effects or critical hazards.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY

NOTES TO PHYSICIAN: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SPECIFIC TREATMENTS: No specific treatment.

PROTECTION OF FIRST-AIDERS: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

SECTION 5: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA: In case of fire, use water spray (fog), foam, dry chemical or CO₂.
UNSUITABLE EXTINGUISHING MEDIA: None known.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: No specific fire or explosion hazard.

SECTION 5: FIRE-FIGHTING MEASURES (CONTINUED)

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS:	Decomposition products may include the following materials: Carbon dioxide Carbon monoxide Halogenated compounds Metal oxide/oxides
SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS:	No special measures are required.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

FOR NON-EMERGENCY PERSONNEL:	No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
FOR EMERGENCY RESPONDERS:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
ENVIRONMENTAL PRECAUTIONS:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

SMALL SPILL:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
LARGE SPILL:	Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

PROTECTIVE MEASURES:	Put on appropriate personal protective equipment (see Section 8).
ADVICE ON GENERAL OCCUPATIONAL HYGIENE:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

OCCUPATIONAL EXPOSURE LIMITS:	None.
APPROPRIATE ENGINEERING CONTROLS:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
ENVIRONMENTAL EXPOSURE CONTROLS:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

INDIVIDUAL PROTECTION MEASURES

- HYGIENE MEASURES:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- EYE/FACE PROTECTION:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

SKIN PROTECTION

- HAND PROTECTION:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- BODY PROTECTION:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- OTHER SKIN PROTECTION:** Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- RESPIRATORY PROTECTION:** Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

PHYSICAL STATE:	Semi-solid.
COLOR:	Amber.
ODOR:	Mild.
ODOR THRESHOLD:	Not available.
pH:	Not available.
MELTING POINT:	Not available.
BOILING POINT:	Not available.
FLASH POINT:	Open Cup: 210 °C (410 °F) [Cleveland.]
BURNING TIME:	Not available.
BURNING RATE:	Not available.
EVAPORATION RATE:	Not available.
FLAMMABILITY (SOLID, GAS):	Not available.
LOWER AND UPPER EXPLOSIVE (FLAMMABLE) LIMITS:	Not available.
VAPOR PRESSURE:	Not available.
VAPOR DENSITY:	Not available.
RELATIVE DENSITY:	0.89 g/ml
SOLUBILITY:	Insoluble in the following materials: Cold water Hot water
PARTITION COEFFICIENT: N-OCTANOL/WATER:	Not available.
AUTO-IGNITION TEMPERATURE:	Not available.
DECOMPOSITION TEMPERATURE:	Not available.
SADT:	Not available.
VISCOSITY:	Not available.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:	No specific test data related to reactivity available for this product or its ingredients.
CHEMICAL STABILITY:	The product is stable.
POSSIBILITY OF HAZARDOUS REACTIONS:	Under normal conditions of storage and use, hazardous reactions will not occur.
CONDITIONS TO AVOID:	Do not heat above flash point.
INCOMPATIBLE MATERIALS:	Reactive or incompatible with the following materials: Oxidizing materials
HAZARDOUS DECOMPOSITION PRODUCTS:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY:	There is no data available.
IRRITATION/CORROSION:	There is no data available.
SENSITIZATION:	There is no data available.
MUTAGENICITY:	There is no data available.
CARCINOGENICITY:	There is no data available.
REPRODUCTIVE TOXICITY:	There is no data available.
TERATOGENICITY:	There is no data available.
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE):	There is no data available.
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE):	There is no data available.
ASPIRATION HAZARD:	There is no data available.
INFORMATION ON THE LIKELY ROUTES OF EXPOSURE:	Dermal contact. Eye contact. Ingestion.

POTENTIAL ACUTE HEALTH EFFECTS

EYE CONTACT:	No known significant effects or critical hazards.
INHALATION:	No known significant effects or critical hazards.
SKIN CONTACT:	No known significant effects or critical hazards.
INGESTION:	No known significant effects or critical hazards.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL, AND TOXICOLOGICAL CHARACTERISTICS

EYE CONTACT:	No known significant effects or critical hazards.
INHALATION:	No known significant effects or critical hazards.
SKIN CONTACT:	No known significant effects or critical hazards.
INGESTION:	No known significant effects or critical hazards.

DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT- AND LONG-TERM EXPOSURE

SHORT-TERM EXPOSURE:

POTENTIAL IMMEDIATE EFFECTS:	No known significant effects or critical hazards.
POTENTIAL DELAYED EFFECTS:	No known significant effects or critical hazards.

LONG-TERM EXPOSURE:

POTENTIAL IMMEDIATE EFFECTS:	No known significant effects or critical hazards.
POTENTIAL DELAYED EFFECTS:	No known significant effects or critical hazards.

POTENTIAL CHRONIC HEALTH EFFECTS

GENERAL:	No known significant effects or critical hazards.
CARCINOGENICITY:	No known significant effects or critical hazards.
MUTAGENICITY:	No known significant effects or critical hazards.
TERATOGENICITY:	No known significant effects or critical hazards.
DEVELOPMENTAL EFFECTS:	No known significant effects or critical hazards.
FERTILITY EFFECTS:	No known significant effects or critical hazards.

SECTION 11: TOXICOLOGICAL INFORMATION (CONTINUED)

NUMERICAL MEASURES OF TOXICITY

ACUTE TOXICITY ESTIMATES

ROUTE:	ATE VALUE
Oral	57454.5 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY:	There is no data available.
PERSISTENCE AND DEGRADABILITY:	There is no data available.
BIOACCUMULATIVE POTENTIAL:	There is no data available.
MOBILITY IN SOIL:	
SOIL/WATER PARTITION COEFFICIENT (K_{oc}):	Not available.
OTHER ADVERSE EFFECTS:	No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
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SECTION 14: TRANSPORT INFORMATION

	DOT CLASSIFICATION	IMDG	IATA
UN NUMBER:	Not regulated.	Not regulated.	Not regulated.
UN PROPER SHIPPING NAME:	---	---	---
TRANSPORT HAZARD CLASS(ES):	---	---	---
PACKING GROUP:	---	---	---
ENVIRONMENTAL HAZARDS:	No.	No.	No.
ADDITIONAL INFORMATION:	---	---	---

AERG:	Not applicable.
SPECIAL PRECAUTIONS FOR USER:	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:	Not available.

SECTION 16: OTHER INFORMATION (CONTINUED)

HISTORY

DATE ISSUE (MM/DD/YYYY): 01/01/2014
VERSION: 1
REVISED SECTION(S): Not applicable.

KEY TO ABBREVIATIONS:

ATE = Acute Toxicity Estimate
BCF = Bio-concentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Code
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

NOTICE TO THE READER:

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



Safety Data Sheet

Penetrating Dielectric Lubricant

SECTION 1. IDENTIFICATION

Product Identifier	Penetrating Dielectric Lubricant
Part number	500-55
Product Family	Mixture
Recommended Use	Corrosion inhibitor.
Restrictions on Use	None known.
Supplier Identifier	Tectran

SECTION 2. HAZARD IDENTIFICATION

Classification

Flammable aerosol - Category 2; Gas under pressure - Compressed gas

Label Elements



Warning

Flammable aerosol.

Pressurized container: may burst if heated.

Contains gas under pressure; may explode if heated.

Keep away from heat, sparks, open flames, and hot surfaces. – No smoking.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Pressurized container: Do not pierce or burn, even after use.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C (122 °F).

Store in a well-ventilated place.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Mineral oil	64742-65-0	60-100	
Petroleum gases, liquefied	68476-85-7	15-20	
Kerosine (petroleum), hydrodesulfurized	64742-81-0	5-10	
Zinc dinonylnaphthalenesulfonate	28016-00-4	1-5	
Calcium alkylnaphthalene sulfonate	57855-77-3	1-5	
Distillates (petroleum), hydrotreated light	64742-47-8	1-5	

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Alcohol ethoxylate	84133-50-6	1-5	
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SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove source of exposure or move to fresh air. Keep at rest in a position comfortable for breathing. Get medical advice or attention if you feel unwell or are concerned.

Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. Get medical advice or attention if you feel unwell or are concerned.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists, get medical advice or attention.

Ingestion

Get medical advice or attention if you feel unwell or are concerned.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Carbon dioxide, dry chemical powder or appropriate foam. Use water to keep non-leaking, fire-exposed containers cool.

Unsuitable Extinguishing Media

DO NOT use water or water-based extinguishing agents.

Specific Hazards Arising from the Product

Closed containers may rupture violently when heated releasing contents. Contains gas under pressure; may explode if heated. Flammable aerosol. May accumulate in hazardous amounts in low-lying areas especially inside confined spaces, resulting in a fire hazard. May travel a considerable distance to a source of ignition and flash back to a leak or open container.

Fumes and smoke.

Special Protective Equipment and Precautions for Fire-fighters

Evacuate area. Fight fire from a safe distance or a protected location.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. May accumulate in hazardous amounts in low-lying areas especially inside confined spaces, if ventilation is not sufficient. Remove or isolate incompatible materials as well as other hazardous materials.

Environmental Precautions

If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas. Do not allow into any sewer, on the ground or into any waterway.

Methods and Materials for Containment and Cleaning Up

Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling. Do not

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puncture or incinerate container even when empty. Do not spray on an open flame or other ignition source. Do not pierce or burn container, even after use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Conditions for Safe Storage

Store in an area that is: cool, dry, well-ventilated, out of direct sunlight and away from heat and ignition sources.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH® TLV®		OSHA PEL	
	TWA	STEL [C]	TWA	Ceiling
Distillates (petroleum), hydrotreated light	200 mg/m ³ A3	Not established	Not established	Not established

Appropriate Engineering Controls

Sufficient mechanical ventilation to maintain exposures below the TLV. Under normal conditions of use, general ventilation should be satisfactory. Local ventilation is recommended if the product is misted or used in a confined space or if the TLV is exceeded. Make up air should always be supplied to balance air exhausted. Provide eyewash in work area, if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Not required but it is good practice to wear safety glasses or chemical safety goggles.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

Respiratory Protection

Not normally required if product is used as directed.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Red Aerosol.
Odour	Characteristic
Odour Threshold	Not available
pH	Not applicable
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Initial Boiling Point/Range	Not available
Flash Point	> 127 °C (closed cup)
Evaporation Rate	Not available
Flammability (solid, gas)	Flammable aerosol
Upper/Lower Flammability or Explosive Limit	6.0% (upper); 1.0% (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	> 1.0
Relative Density (water = 1)	0.859
Solubility	Not available in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	229 °C (Kerosine (petroleum), hydrodesulfurized)
Decomposition Temperature	Not available
Viscosity	28.59 centistokes at 40°C (kinematic)

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Other Information

VOC %	22.7
Flame projection	> 45 cm < 100 cm
NFPA Classification	Aerosol, Level 1

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Stable at ambient temperatures and pressures.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources.

Incompatible Materials

Oxidizing agents (e.g. peroxides).

Hazardous Decomposition Products

Fumes and smoke may be generated.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

Likely Routes of Exposure

Inhalation;
Skin contact;
Eye contact;
Ingestion.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Calcium alkyl-naphthalene sulfonate	> 18000 mg/m ³ (rat) (1-hour exposure)	> 5000 mg/kg (rat)	> 20 mg/kg (rabbit)
Mineral oil	Not available	> 5000 mg/kg (rat)	> 5000 mg/kg (rabbit)
Kerosine (petroleum), hydrodesulfurized	> 5200 mg/m ³ (rat) (4-hour exposure)	> 5000 mg/kg (rat)	> 2000 mg/kg (rabbit)
Alcohol ethoxylate	Not available	2100 mg/kg (rat)	Not available

Skin Corrosion/Irritation

There is limited evidence of mild irritation.

Serious Eye Damage/Irritation

There is limited evidence of mild irritation.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

May cause nose and throat irritation.

Skin Absorption

No information was located.

Ingestion

Ingestion can cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

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Aspiration Hazard

Not known to be an aspiration hazard.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information was located.

Respiratory and/or Skin Sensitization

Not known to be a respiratory sensitizer.

Not known to be a skin sensitizer.

Carcinogenicity

Chemical Name	ACGIH®	IARC	NTP	OSHA
Distillates (petroleum), hydrotreated light	A3	Group 3	Not Listed	Not Listed
Mineral oil	A4	Group 3	Not Listed	Not Listed
Petroleum gases, liquefied	Not Listed	Not Listed	Not Listed	Not Listed

Not known to cause cancer.

Key to Abbreviations

ACGIH® = American Conference of Governmental Industrial Hygienists. A3 = Animal carcinogen. A4 = Not classifiable as a human carcinogen.

IARC = International Agency for Research on Cancer. Group 3 = Not classifiable as to its carcinogenicity to humans.

No information was located for: Development of Offspring, Sexual Function and Fertility, Effects on or via Lactation, Germ Cell Mutagenicity, Interactive Effects

SECTION 12. ECOLOGICAL INFORMATION

This section is not required by WHMIS.

This section is not required by OSHA HCS 2012.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal Methods**

Empty containers retain product residue. Follow label warnings even if container appears to be empty. Do not reuse empty containers. The container for this product can present explosion or fire hazards, even when emptied. Do not cut, puncture, or weld on or near this container. Dispose of contents and container in accordance with local, regional, national and international regulations.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	UN1950	Aerosols	2.1	---
US DOT	UN1950	Aerosols	2.1	---
IMDG (Marine)	UN1950	Aerosols	2.1	---
IATA (Air)	UN1950	Aerosols, flammable	2.1	---

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Emergency Response 126 EmS F-D, S-U

Guide No.**Other Information**

ICAO/IATA PI Y203/203

Product may ship as LTD QTY if TDG, ICAO/IATA or IMDG Limited Quantity provisions are

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met.

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

CEPA - National Pollutant Release Inventory (NPRI)

(Distillates (petroleum), hydrotreated light) Part 5.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

Additional USA Regulatory Lists

CERCLA: Not applicable.

SARA Title III - Section 302: Not applicable.

SARA Title III - Section 313: Not applicable.

California Proposition 65: Not applicable.

Massachusetts Right To Know: Not applicable.

New Jersey Right To Know. (Petroleum gases, liquefied)

Pennsylvania Right To Know. (Petroleum gases, liquefied)

SECTION 16. OTHER INFORMATION

NFPA Rating **Health - 1** **Flammability - 2** **Instability - 0**
Based on Kerosine (petroleum), hydrodesulfurized

SDS Prepared By Regulatory Compliance

Date of Preparation February 03, 2016

Key to Abbreviations ACGIH® = American Conference of Governmental Hygienists
CANUTEC = Canadian Transport Emergency Centre
CAS = Chemical Abstract Service
CCOHS = Canadian Centre for Occupational Health & Safety
CNS = Central nervous system
GESTIS = GESTIS Substance Database
HSDB® = Hazardous Substances Data Bank
IARC = International Agency for Research on Cancer
ICAO = International Civil Aviation Organization
IMDG = International Maritime Dangerous Goods Code
LC = Lethal concentration
LD = Lethal dose
NFPA = National Fire Protection Association
NTP = National Toxicology Program
OSHA = US Occupational Safety and Health Administration
PPM = Parts per million
RTECS® = Registry of Toxic Effects of Chemical Substances
STEL = Short term exposure limit
TDG = Transportation of Dangerous Goods Regulations (Canada)
TWA = Time weighted average

References Material safety data sheet from manufacturer.
CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).
HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS).

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Registry of Toxic Effects of Chemical Substances (RTECS®) database. Accelrys, Inc.
Available from Canadian Centre for Occupational Health and Safety (CCOHS).
ECHA - European Chemical Agency, Classification and Labelling Inventory
GESTIS Substance Database
OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2015.

Disclaimer

The information contained herein is offered only as a guide to the use and handling of this specific material and has been prepared in good faith. It is not intended to be all-inclusive, and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied. Shrader Canada Limited will not be liable for any damages, losses, injuries or consequential damages which may result from the use of or reliance on any information contained herein.



Safety Data Sheet

Heat Shrink

SECTION 1: Identification

CAS No

Name Heat Shrink

Formula

Uses Electrical insulation tubing.

SECTION 2: Hazard(s) Identification



Signal Word

Hazard Statements N/A This Product Is A Manufactured Article And, As Such, Is Exempt From The Hazardous Products Act. For Additional Information, See Section 9.

Precautionary Statements N/A –

Other Hazards not contributing to the classification None

Unknown Acute Toxicity No data available

SECTION 3: Composition/Information on Ingredients

Name	Product Identifier	%
Heat Shrink		100%

SECTION 4: First-Aid Measures

First-aid measures after inhalation If exposed to fumes/gases from overheating, seek medical advice.

First-aid measures after ingestion Drink two glasses of water and seek medical attention.

First-aid measures after skin contact Wash with soap and water, if irritation develops, seek medical attention..

First-aid measures after eye contact Flush with water for 15 minutes.

SECTION 5: Fire-Fighting Measures

Suitable extinguishing media	Water spray, dry chemical, foam carbon dioxide.
Fire hazard	
Explosion Hazard	
Firefighting instructions	
Special protective equipment for fire fighters	Use self contained breathing apparatus during firefighting.

SECTION 6: Accidental Release Measures

General measures	Use safety glasses and protective gloves when handling/using the material.
For non-emergency personnel	Do not breath fumes produced during overheating or burning.
For emergency responders	Do not breath fumes produced during overheating or burning.
Environmental precautions	Landfill or incinerate in compliance with all government regulations.
Methods and material for containment and cleaning up	

SECTION 7: Handling and Storage

Precautions for safe handling	Avoid overheating materials above decomposition temperatures. Do not breath fumes produced during overheating or burning.
Storage conditions	Store in a cool, dry environment.
Specific end use(s)	Wear gloves when handling. Use only with adequate ventilation.

SECTION 8: Exposure Controls/Personal Protection

Heat Shrink ()

Appropriate engineering controls	General ventilation should be adequate. Use of local ventilation may be required where overheating is expected.
Eye protection	Use safety glasses during installation.
Respiratory Protection	Not required.
Other information	

SECTION 9: Physical and Chemical Properties

Physical state	Solid
Color	Varies
Odor	Not applicable
pH	Not applicable
Melting point	No data available

Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Critical temperature	No data available
EN (English US) SDS ID	No data available
Auto-ignition temperature	Product is not self-igniting.
Flammability (solid, gas)	No data available
Specific gravity / density	1.2
Solubility	Insoluble in water
Explosive properties	Product does not present an explosion hazard.
Additional information	

SECTION 10: Stability and Reactivity

Reactivity	
Chemical stability	Stable under normal conditions of use.
Possibility of hazardous reactions	N/A
Conditions to avoid	Decomposes at elevated temperatures.
Incompatible materials	Strong Oxidizers
Hazardous decomposition products	May product oxides of carbon, nitrogen acetic acid, acid aldehydes, vinyl acetate, trace organic arsenic, ammonia, halogen compounds asphyxiants and other hydrocarbon decomposition products.

SECTION 11: Toxicological Information

Acute toxicity	Not Classified
Skin corrosion/irritation	Not classified pH: Not applicable
Serious eye damage/irritation	Not classified pH: Not applicable
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity (single exposure)	Not classified
Specific target organ toxicity (repeated exposure)	Not classified. No known effects from this product.

Aspiration hazard

Not classified.
Not applicable.

SECTION 12: Ecological Information (non-mandatory)

PBT	No relevant information available.
vPvB	No relevant information available.
General	No relevant information available.
Aquatic toxicity	No relevant information available.

SECTION 13: Disposal Considerations (non-mandatory)

Waste disposal recommendations	Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.
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SECTION 14: Transport Information (non-mandatory)

In accordance with DOT regulations

SECTION 16: Other Information

Version 1.0

Revision Date: 04/01/2015

MATERIAL SAFETY DATA SHEET

Preparation Date: January 1, 2009

L4K1Y8

WHIMIS information: A,B5,D2B

MATERIAL SAFETY DATA SHEET

Manufacturer's LAB Name and Address:

K-G Packaging

PENDILUBE SAMPLE

Section 1

Name

Description

Use

MSDS Number

Appearance & Odor

Product Information

PENDILUBE (Bulk)

Corrosion Inhibitor / Moisture Displacer / E.P. Lubricant

Corrosion Inhibitor / Penetrant / Lubricant for Truck Environments - for Non-ferrous or Ferrous as dissimilar metals / wherever there is excessive moisture.

1009 -B SS

BLUE - with fresh scent

Section 2: Composition

Product is formulated from highly refined hydrocarbon base stock, emulsifying and demulsifying agents, hydrocarbon solvents and unique water displacing materials and inhibitors.

Section 3. Hazardous Ingredients

Base Stock

OSHA PEL

5 mg/m³ (oil mist)

CAS

72623-85-9

72623-83-7

Hydrocarbon Solvent

100 ppm (vapour)

8008-20-6

8052-41-3

Zinc Dinonylnaphthalenesulfonate

N.Av./P.D.

28016-00-4

Section 4:

% Non-Volatiles (by weight)

Boiling Point:

Vapor Pressure:(mm Hg. @ 25deg. C)

Vapor Density: (Air = 1)

Melting Point:

Solubility in Water:

Evaporation Rate (Butyl Acetate = 1)

Specific Gravity (Water = 1):

Chemical Characteristics

> 91%

> 212 degrees F.

8 mm Hg.

>1

Not Applicable

Slightly emulsifiable

<1

0.868

Section 5

Skin

Eyes

Inhalation

Ingestion

of a of Physician.

Note to Physician

Hydrocarbon Poisoning.

Emergency & First Aid Procedures

Remove excess by wiping and follow by washing with soap and water until there is no odor.

Flush with copious quantities of water (15 minutes). Lift Eyelids and flush inside. Seek Physician if eyes become inflamed.

Evacuate to fresh air. Apply CPR if required. If resuscitation is required, assessment by a Physician is mandatory.

DO NOT INDUCE VOMITING! If vomiting occurs, take care to prevent aspiration.. Give 1/2 pint of milk to drink. Seek aid

Consult standard literature re

Section 6:

Primary Route(s) of Exposure:

Eye Contact:

Skin Contact:

Inhalation:

Ingestion:

Carcinogenicity:

Health Effects Summary

Eyes-YES Skin-NO Inhalation-YES Ingestion-YES

Essentially non-irritating, however, vapors and/or mists can cause mild to moderate irritation Severity of reaction depends upon duration of exposure and first aid procedures administered.

Over exposure may cause eyes to become red and/or watery

Essentially non-irritating. LD50 absorbtion for skin is 2000 mg/kg. Prolonged or repeated contact with the skin has not been a cause of defatting or dermatitis in normal day to day handling of material. Effects of over exposure may be dry, chapped skin

Non-toxic, *LC50 = 5000 ppm (rat, inhalation) Can cause irritation to nose and throat and upper respiratory tract during prolonged exposure, but not normally. Exercise caution if vapours are hot. If over-exposure occurs - may cause dizziness or headaches or nausea. *Based on toxicity of components.

Virtually Non-Toxic **LD50 1400 mg/kg (rat, oral) May be harmful or fatal if swallowed. Can cause severe irritation of mouth, throat and esophagus. Can cause nausea, vomiting or gastrointestinal upset. May cause diarrhea. **Based on toxicity of Petroleum Distillate only.

Non-carcinogenic as listed by: ACGIH, IARC MONOGRAPHS, or OSHA (Based on toxicity reports of component parts)

MATERIAL SAFETY DATA SHEET

Preparation Date: January 1, 2009

Manufacturer's LAB Name and Address:

K-G Packaging

Section 7: Reactivity Data
Product Stability: Stable
Incompatibility: Oxidizing Materials such as Liquid or Compressed Oxygen or Peroxides or Chlorines
Hazardous Decomposition: Burning produces normal bi-products of combustion including: Carbon Monoxide, Phenols, or Petroleum Products
Hazardous Polymerization: Will NOT occur.

Section 8: Fire & Explosion Hazardous Information
Flash Point: > 260 degrees F. (Method COC)
Flammable Limits: Solvent Component LEL: 1.0 UEL: 6.0
Extinguishing Media: CO2, Dry Chemical, Foam, Water Spray.
Fire Fighting Procedures: Use full protective and self-contained breathing apparatus. Cover with an extinguishing agent. Do NOT spray with water using a direct stream into the burning liquid as this may spread the fire. Use a water spray or mist to cool the fire.
Explosion Hazards: Treat as a combustible liquid. Do NOT flame cut, drill or weld the empty containers.
Fire Hazard Identification: NFPA STD. 704 Health - 0 Flammability - 1 Reactivity - 0 NFPA STD. 321 Combustible Liquid, Class III 3A

Section 9: Safety Precautions for Safe Handling
Steps to be taken in case of a spill: Eliminate sources of ignition. Stop or reduce flow by means of a dyke or barricade. Absorb small spills using dry clay or a commercial absorbent. Collect residue into suitable container for proper disposal. Material may be washed into floor drains equipped with an oil interceptor.
Waste disposal method: Dispose in an approved landfill site or incinerate at a licensed waste reclaiming facility. Liquid waste may be removed by means of a licensed reclaimer under used oil classification. Be sure to follow all Local, State, & Federal Requirements.

Section 10: Control Measures
Ventilation: Provide sufficient ventilation by means of general or mechanical means to ensure that exposure levels are kept below combustible limits.
Respiratory Protection: None normally needed unless atomizing in enclosed or confined spaces. Use approved organic mist vapor respirator.
Eye Protection: None normally required unless operator is using high pressure spraying equipment and splashing may be likely
to occur. Use approved face mask or goggles.
Protective Gloves: None needed
Protective Clothing: None Needed
Personal Hygiene: Wash face and hands with soap and water after use, especially before eating or smoking or using the rest room facilities. Launder soiled clothing and shoes / boots with detergent. Apply mild hand cream if hands become dry or chapped.

Section 11: Label & Transportation Information
DOT Shipping Name: Class B - Combustible Liquid
DOT Identification #: Not restricted

Section 12: Regulatory Information SARA TITLE III INFORMATION

Section 313 - Toxic Chemicals This product does not contain any chemicals which are listed as a carcinogen and in concentrations greater than 0.1% of the mixture pursuant to Section 313 of SARA TITLE III.

Section 302 - EXTREMELY HAZARDOUS SUBSTANCES Pursuant to Section 302 of SARA TITLE III, this product does not contain an extremely hazardous substance. Materials which may contain zinc compounds; contains 0.1% as Zn.

Material Information System (WHMIS) This product is not known to contain greater than 1.0% of any chemical substance which is considered Extremely Hazardous.

Section 13: Users Responsibility

A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions - in addition to those described herein - are required. Any health hazard and safety information contained herein should be passed on to your customers or employees, as the case may be.

Section 14: Disclaimer of Liability

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damage incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical and application of such products is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. It is the sole responsibility of the user to comply with all applicable Federal, State and Local Laws and Regulations.

December 12, 2018

RE: TECTRAN Conflict Minerals Compliance Letter

Dear Valued Customer:

Section 1502 of the Dodd-Frank Wall Street Reform and Consumer Protection Act, passed in July of 2010, is an attempt to prevent rebel groups in the Democratic Republic of the Congo (DRC) from illegally using profit from the minerals trade to fund their activities.

The act requires publicly-traded corporations to report the use of “Conflict Minerals” (refers to specific mineral ores and their derivatives; gold, tantalum, tin and tungsten) which originate from the DRC or indicated adjoining countries in their products.

As a privately held corporation, TECTRAN is not subject to the Conflict Minerals reporting requirements; however, as a supplier to publicly traded companies, we are committed to helping our customers comply with their reporting requirements.

TECTRAN is fully supportive of global industry efforts to ensure responsible manufacturing processes with transparent sourcing in full accordance with the law. TECTRAN actively surveys our supply base to ascertain that there are no Conflict Minerals in the materials supplied to us.

We expect all our suppliers to maintain compliance with Dodd-Frank regulations. Any areas of non-compliance results in a review of our business relationship with those identified suppliers. TECTRAN currently represents, based on the supplied information from our supply base thus far, that our products sustain the Dodd-Frank Conflict Mineral regulations.

Our surveying efforts continue and TECTRAN will provide updated information should we find any information that alters this condition.

Thank you for your continued support.

T. Burns

Timothy Scott Burns

Marketing Manager

TECTRAN MFG INC.