



EXCAVATION

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LUBRICANT



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MATERIAL SAFETY DATA SHEET
COMPLIES WITH OSHA'S HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

SECTION I · PRODUCT IDENTIFICATION

Product Name: Air Tool Conditioner & Lubricant
Product Number: 74136
Product Type: AEROSOL
Distributor's Name: IBS, Inc.
Distributor's Address: P.O. Box 1717, Auburn, WA 98071-1717
D.O.T. Hazard Class: CONSUMER COMMODITY · ORM-D

Formula: Proprietary
Date Prepared: 7/6/06
Emergency Phone: (800) 255-3924
Information Phone: (800) 678-1906

HMIS Rating (Based on Aerosol Conc.):
0-Minimal 1-Slight 2-Moderate
3-Serious 4-Extreme
HEALTH: 1 **FIRE:** 3 **REACTIVITY:** 0
Personal Protection: B

SECTION II · INGREDIENTS

CHEMICAL NAME	CAS #	%WT	313/Chem	Skin	Carcinogen	PEL	TWA/TLV
Isoparaffinic Hydrocarbon	64742-66-8	50-60	NO	NO	NO	N/E	281 ppm*
Petroleum Hydrocarbon	64742-53-6	10-20	NO	NO	NO	5 mg/m3	5 mg/m3
Isopropanol	67-63-0	01-10	NO	NO	NO	400 ppm	200 ppm
Liquefied Petroleum Gas	68476-86-8	10-30	NO	NO	NO	1000 ppm	1000 ppm

*Manufacturer's Recommended Exposure Limit (TWA)

SECTION III · PHYSICAL DATA

Data Below Based On Aerosol Concentrate Only:

Boiling Point: ~180° F

pH: N/A

Solubility In Water: Insoluble

Appearance / Odor: Red Liquid, Solvent Odor

Data Below Based On Total Contents:

Vapor Pressure of can (psig @70°F): 55

Total VOC %: ~81.6%

Vapor Density(Air=1): >1

Specific Gravity (H₂O=1)@75°F: 0.757

SECTION IV · FIRE AND EXPLOSION DATA

Flash Point (of Concentrate Only): ~45° F (T.C.C.)

Flammability (as per USA Flame Projection Test): Extremely-Flammable Spray

Extinguishing Media: Foam, CO₂, Dry Media

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing. Cool fire exposed containers to prevent rupturing.

Unusual Fire and Explosion Hazards: Exposure to temperature above 120° F may cause bursting.

SECTION V · REACTIVITY DATA

Stability: Material Stable

Hazardous Polymerization: Will not Occur.

Incompatibility: Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products: Carbon Dioxide, Carbon Monoxide.

SECTION VI · STORAGE AND HANDLING

KEEP OUT OF REACH OF CHILDREN.

For Industrial and Institutional use only.

Store in a cool, dry area away from heat or open flame.

Do not store at temperatures above 120° F.

NFPA Code 30B Rating: Level 3 Aerosol.

SECTION VII · HEALTH AND FIRST AID

PRIMARY ROUTES OF ENTRY & EFFECTS OF OVER EXPOSURE:

Eyes: May cause irritation accompanied by stinging, tearing, redness, and swelling.

Skin: Frequent or prolonged contact may cause irritation and possibly dermatitis. May aggravate existing skin conditions.

Inhalation: Inhalation of mist can cause irritation of nasal and respiratory passages. Abusive or excessive inhalation may cause irritation to the respiratory tract, dizziness, nausea, low blood pressure, lung edema, kidney damage, and other central nervous system effects, including unconsciousness and death.

Ingestion: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion of large amounts may cause mild, reversible liver effects. Aspiration of material into the lungs can cause mild to severe pulmonary injury.

FIRST AID PROCEDURES:

Eyes: Flush with large amounts of cool running water for at least 15 minutes while holding upper and lower lids open. If irritation persists get medical attention immediately.

Skin: Wash with soap and water. If irritation persists seek medical attention.

Inhalation: Remove to fresh air. Seek medical attention immediately. If breathing stops give artificial respiration.

Ingestion: Do not induce vomiting. Seek medical attention immediately.

SECTION VIII · SPECIAL PROTECTION DATA

Respiratory Protection: None needed for proper use in accordance with label directions.

Ventilation: Provide local exhaust to keep air concentrations of ingredients listed in Section II below established limits.

Protective Gloves: Use chemical resistant gloves if hand contact will be made.

Eye Protection: Always wear safety glasses or chemical proof goggles when working with chemicals.

SECTION IX · SPILL OR LEAK PROTECTION

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK: Allow propellant to evaporate. Maintain local exhaust and adequate ventilation. No smoking. Keep sparks, heat sources and open flame far away from spill or leak. Cover with absorbent material and sweep up. Wash area to prevent slipping. Dispose of soaked absorbent material in accordance with Federal, State and local laws.

WASTE DISPOSAL METHOD: Aerosol cans, when emptied and depressurized through normal use, pose no disposal hazard and should be recycled. Consult Federal, State and local authorities for approved procedures.

N/A= NOT APPLICABLE · N/E=NOT ESTABLISHED · N/D=NOT DETERMINED · <=LESS THAN · >=MORE THAN

NOTICE: The information contained on this Material Safety Data Sheet is considered accurate as of the date of publication. It is not necessarily all inclusive nor fully adequate in every circumstance. The suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, express or implied, of merchantability, fitness, accuracy of data, or the results to be obtained from the use thereof is made. The vendor assumes no responsibility for injury or damages resulting from the inappropriate use of this product.

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SAFETY DATA SHEET

74102
Sep 30, 2014
Tool Cool Aerosol

SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

Product ID :	74102	
Product Name :	Tool Cool Aerosol	
Revision Date :	Sep 30, 2014	Date Printed : May 01, 2015
Version :	1.0	Supersedes Date : N.A.
Manufacturer's Name :	IBS Inc.	
Address :	740 Clay St NW, Auburn WA 98001	
Emergency Phone :	1-800-256-3824	
Information Phone :	1-800-678-1906	
Fax :		
Product/Recommended Uses:		

SECTION 2) HAZARDS IDENTIFICATION

Classification:
Skin Irritation - Category 2
Cardiogenicity - Category 2
Chronic aquatic toxicity - Category 2
Aerosol - Category 3

Pictograms:



Signal Word:

Warning

Hazardous Statements - Physical:

H229 - Pressurized container. May burst if heated

Hazardous Statements - Health:

H315 - Causes skin irritation

H351 - Suspected of causing cancer.

Hazardous Statements - Environmental:

H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements - General:

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

Precautionary Statements - Prevention:

P273 - Avoid release to the environment.

P264 - Wash thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P201 - Obtain special instructions before use.

74102

P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251 - Do not pierce or burn, even after use.

Precautionary Statements - Response:

P301 - Collect spillage.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P302 + P313 - If skin irritation occurs. Get medical advice/attention.

P352 + P364 - Take off contaminated clothing. And wash it before reuse.

P308 + P313 - IF exposed or concerned. Get medical advice/attention.

Precautionary Statements - Storage:

P405 - Store locked up.

P410 - Protect from sunlight.

P412 - Do not expose to temperatures exceeding 50 °C/122 °F.

Precautionary Statements - Disposal:

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Chemical Name	% by Weight
0000127-18-4	TETRACHLOROETHYLENE	60% - 100%
0000124-38-9	CO2	2% - 3%

SECTION 4) FIRST-AID MEASURES

Inhalation:

Remove source of exposure or move person to fresh air and keep comfortable for breathing.

If exposed/fel unwell/concerned: Call a POISON CENTER/doctor.

Eliminate all ignition sources if safe to do so.

Eye Contact:

Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

Skin Contact:

Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Gently blot or brush away excess product. Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. Call a POISON CENTER/doctor if you feel unwell. Store contaminated clothing under water and wash before reuse or discard.

Ingestion:

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. If vomiting occurs naturally, lie on your side, in the recovery position.

Never give anything by mouth to an unconscious or convulsing victim. Keep person warm and quiet.

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Use water, fog, dry chemical, or carbon dioxide.

Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

Unsuitable Extinguishing Media:

Water may be ineffective but can be used to cool containers exposed to heat or flame.

Specific Hazards in Case of Fire:

Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force.

74102

Decomposition Pt N.A.
Auto Ignition Temp N.A.
Evaporation Rate Slower than ether

SECTION 10) STABILITY AND REACTIVITY

Stability: •

Stable.

Conditions to Avoid:

High temperatures.

Incompatible Materials:

None known.

Hazardous Reactions/Polymertization:

Will not occur.

Hazardous Decomposition Products:

In fire, will decompose to carbon dioxide, carbon monoxide.

SECTION 11) TOXICOLOGICAL INFORMATION

Skin Corrosion/Irritation:

Overexposure will cause detailing of skin.

Causes skin irritation

Serious Eye Damage/Irritation:

Overexposure will cause redness and burning sensation.

Carcinogenicity:

Suspected of causing cancer.

Germ Cell Mutagenicity:

No data available

Reproductive Toxicity:

No data available

Respiratory/Skin Sensitization:

No data available

Specific Target Organ Toxicity - Single Exposure:

No data available

Specific Target Organ Toxicity - Repeated Exposure:

No data available

Aspiration Hazard:

No data available

Acute Toxicity:

Inhalation: effect of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.

0000127-18-4 TETRACHLOROETHYLENE

LC50 (rat): Approximately 3786 ppm (4-hour exposure) (22); approximately 4000 ppm (4-hour exposure) (23)

LC50 (mouse): 5200 ppm (4-hour exposure) (24)

LD50 (oral, rat): Approximately 2800 mg/kg (oral as 1.6 mL/kg) (20)

LD50 (oral, male rat): 3530 mg/kg (25)

LD50 (oral, female rat): 3405 mg/kg (25)

LD50 (dermal, rabbit): Greater than 3245 mg/kg (0/5 animals died) (2)

SECTION 12) ECOLOGICAL INFORMATION

Toxicity:

No data available.

Toxic to aquatic life with long lasting effects

Persistence and Degradability:

No data available.

Bio-Accumulative Potential:

No data available.

Mobility in Soil:

No data available.

Other Adverse Effects:

No data available.

SECTION 13) DISPOSAL CONSIDERATIONS

Waste Disposal:

Under RCRA, it is the responsibility of the user of the product, to determine a the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws. Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

SECTION 14) TRANSPORT INFORMATION

U.S. DOT Information:

Consumer Commodity, ORM-D

IMDG Information:

Consumer Commodity, ORM-D

IATA Information:

Consumer Commodity, ORM-D

SECTION 15) REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation Limit
000074-38-9	CC2	2% - 3%	SARA312,TSCA,ACGIH,OSHA
000072-18-4	TETRACHLOROETHYLENE	60% - 100%	CERCLA,HAPS,SARA313,VOC_exempt,TSCA,RCRA,ACGIH,CA,Prop65 - California Proposition 65,OSHA

SECTION 16) OTHER INFORMATION

Glossary:

* There are points of differences between OSHA GHS and UN GHS. In 90% of the categories, they can be used interchangeably, but for the Skin Corrosion/Irritation category and the Specific Target Organ Toxicity (Single and Repeated Exposure) Categories. In these cases, our system will say UN GHS.

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG- Canadian Transportation of Dangerous Goods; CEN- European Standard Service; Chemicals- Chemical Transportation Emergency Center (US); CIPAC- Chemical Industry Pollution Abatement Service; Domestic Substances List- EC- Equivalent Concentration; EHD0 (UK)- HSE Guidance Note; EHD0 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects Research Group; HMTS- Hazardous Material Information Service; ILO- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration; US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313 Superfund Amendments and Reauthorization Act; Section 313: SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ- Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TVWA - Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

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Material Safety Data Sheet

Identity: TOOL COOL BLUE IBS No. 74208

Section I

Distributor: IBS, Inc.

Address: P.O. Box 1717
Auburn, WA 98422

Emergency Telephone Number: (800) 255-3924

Information Telephone Number: (800) 678-1906

Date Prepared/Updated: 1/9/2012

HMIS Ratings:

Health: 1

Fire: 0

Reactivity: 0

Personal Protection: A

SECTION II - Hazardous Ingredients/Identity Information

None

NO MATERIAL ITEMS ARE TO BE FOUND IN ANY STATES RTK LIST
THE INGREDIENTS OF THIS PRODUCT ARE ON THE TSCA INVENTORY
THIS MATERIAL SHOULD BE CONSIDERED NON-HAZARDOUS
THIS IS A NON-CONTROLLED MATERIAL

SECTION III - Physical/Chemical Characteristics

Boiling Point	225°F	Specific Gravity (H ₂ O=1)	1.0365
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density (Air = 1)	N/D	Evaporation Rate (Butyl Acetate = 1)	N/D
Solubility in Water	Dispersible		
Appearance and Odor	Green semi-paste with almond odor		

SECTION IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	None	Flammable Limits	LEL: N/A	UEL: N/A
Extinguishing Media	N/A			
Special Fire Fighting Procedures	None noted.			
Unusual Fire and Explosion Hazards	None noted			

SECTION V - Reactivity Data

Stability	Stable	Conditions to avoid	None known
Incompatibility (materials to avoid)	None known		
Hazardous Decomposition or by-products	None known		
Hazardous polymerization	Will not occur		

SECTION VI - Health Hazard Data

Route(s) of Entry: Eyes, skin, inhalation and ingestion

Health Hazards (Acute and Chronic):

Eyes: Will cause irritation on contact.

Inhalation: Inhaling would be a highly unusual happening; however, smoke from welding parts with Tool Cool Blue residue (heavy) may cause minor irritation to the throat.

Ingestion: Will cause nausea because of the soap base.

Signs and Symptoms of Exposure:

Eyes: Entry into the eye will cause stinging and reversible redness of the conjunctive tissue.

Skin: Some prior skin conditions may be aggravated temporarily. If some animal base hand soaps irritate, Tool Cool Blue may irritate skin.

Inhalation: Mist may irritate mucous membranes.

Ingestion: Will cause nausea.

Medical Conditions generally aggravated by exposure: none noted

Emergency and first aid procedures:

Eyes: Wash with copious amounts of water for at least 15 minutes. Seek medical attention.

Skin: Wash exposed areas with soap and water.

SECTION VII - Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled: If possible, return as much as possible to container, soak up balance with clay and dispose in sanitary landfill. Small amounts may be flushed into sanitary sewer.

Waste disposal method: Sanitary landfill or small amount may be disposed of into sanitary sewer..

Precautions to be taken when handling and storing: Material freezes and some separation may occur. Freezing will not effect capability of material to perform. Once thawed, stir material until smooth.

Other Precautions: None.

SECTION VIII - Control Measures

Respiratory Protection: None except as noted with welding.

Ventilation: Local exhaust for mist or vapors

Protective Gloves: None

Eye Protection: NIOSH approved safety goggles.

Other Protective Clothing or Equipment: None

Work/Hygienic Practices: Usual good work practices. Clean up after use.

The statements contained herein are offered for informational purposes only and are based upon technical data that IBS, Inc. believes to be accurate. It is intended for use only by persons having the necessary technical skills and at their own discretion and risk.

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U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration
MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

SECTION 1**IDENTIFICATION**

Product Name: **BUSTER #74174**
Distributor's Name: IBS, Inc.
Distributor's Address: P.O. Box 1717 - Auburn, WA 98001
Distributor's Phone Number: (800) 678-1906
Emergency Phone Number: (800) 255-3924
Proper Shipping Name: Consumer Commodity, ORM-D
Effective Date: 10-23-06
HMS: **Health = 1; Flammability = 2; Reactivity = 0; Personal Protection B**

SECTION 2 IDENTITY INFORMATION AND HAZARDOUS INGREDIENTS

Chemical Name:	CAS No.:	TLV:
Naphthenic Oil	64742-52-5	5 mg/m ³ as mist
Kerosene	8008-20-6	Not established
Propane	74-98-6	2500ppm
Isobutane	75-28-5	Not established
n-Butane	106-97-8	800ppm
Ethyl Acetate	141-78-6	400ppm

SECTION 3**PHYSICAL DATA**

Boiling Point:	<0 to 342° F	Specific Gravity(H ₂ O=1):	0.80 ± 0.05
Solubility in Water:	Nil	Evaporation Rate:	Slower than Ether
Vapor Density(Air=1):	Heavier than air	pH:	NA

SECTION 4**FIRE AND EXPLOSION HAZARD DATA**

Flash Point: 140°F
Flash Point(Propellant): <0°F
Flammable Limits(Propellant): LEL: 1.0 UEL: 12.8
Extinguishing Media: Use water fog, dry chemical or carbon dioxide.
Special Fire Fighting Procedures: Aerosol cans may rupture when heated.
Unusual Fire and Explosion Hazards: Heated cans may burst.

SECTION 5**REACTIVITY DATA**

Stability: Unstable _____
Stable X
Incompatibility (Materials to Avoid): None known.
Conditions to Avoid: High temperatures.
Hazardous Decomposition or Byproducts: In fire, will decompose to carbon dioxide, carbon monoxide
Hazardous Polymerization: Will not occur

SECTION 6 STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storing:

When spraying more than one half can continuously or more than one can consecutively,
use NIOSH approved respirator.

STORE AT TEMPERATURES BELOW 120°F
KEEP AWAY FROM CHILDREN
FOR USE BY TRAINED PERSONNEL ONLY

KEEP AWAY FROM HEAT, SPARKS, OR OPEN FLAME
FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY
KEEP CONTAINER CLOSED DURING STORAGE

SECTION 7 HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:

SKIN: Skin irritant. Will cause defatting of skin. Effects are reversible.

EYES: Eye irritant. Will cause redness and burning sensation.

INHALATION: Effects of overexposure include irritation of respiratory tract, headache, dizziness,
nausea, and loss of coordination. Extreme overexposure may result in
unconsciousness and possibly death.

INGESTION: Aspiration hazard if swallowed.

Prolonged overexposure to solvents in Section 2 may cause adverse effects to the liver, urinary,
cardiovascular, and reproductive systems. Repeated and prolonged overexposure to solvents can cause
permanent brain and nervous system damage.

First Aid Procedures:

SKIN: Immediately flush exposed area with water for at least 15 minutes. If irritation persists, get
medical attention. Remove contaminated clothing and launder before reuse.

EYES: Immediately flush with large quantities of water for at least 15 minutes, lifting upper and lower
eyelids occasionally. Seek medical attention.

INHALATION: Remove person to fresh air. If irritation persists, give oxygen, get medical attention.

INGESTION: DO NOT induce vomiting. Seek medical attention immediately.

Note: Never give anything by mouth to an unconscious or convulsing victim.

Keep person warm and quiet.

SECTION 8 SPECIAL PROTECTION INFORMATION

Respiratory Protection: Self-contained breathing apparatus if above TLV limit.

Ventilation: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.

Protective Gloves: None required if spraying.

Eye Protection: As with all cleaners, IBS, Inc. supports employee safety as priority #1. Therefore, we
recommend the use of safety glasses or chemical splash goggles.

Other Protective Equipment: Long sleeves and long pants.

Work/Hygienic Practices: Do not smoke while using. Wash hands after use.

SECTION 9 SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released or Spilled:

Use absorbent sweeping compound to soak up material. Put into container. Dispose as
hazardous waste.

Waste Disposal Method:

Dispose as hazardous waste in accordance with EPA RCRA.

SECTION 10 REGULATORY INFORMATION

SARA Title III, Section 313 Components:

None

This information pertains to this product as currently formulated, and is based on the information available at this
time. Addition of reducers or other additives to this product may substantially alter the composition. We make no
warranties, express or implied, and assume no liability in connection with any use of this information. **#74174**

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Material Safety Data Sheet



SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Chevron Open Gear Lubricant NC

Product Use: Gear Lubricant

Product Number(s): CPS255140, CPS255141, CPS255142

Synonyms: Chevron Open Gear Lubricant 100 NC, Chevron Open Gear Lubricant 250 NC, Chevron Open Gear Lubricant 800 NC

Company Identification

Chevron Products Company
a division of Chevron U.S.A. Inc.
6001 Bollinger Canyon Rd.
San Ramon, CA 94583
United States of America
www.chevronlubricants.com

Transportation Emergency Response

CHEMTREC: (800) 424-9300 or (703) 527-3887

Health Emergency

Chevron Emergency Information Center: Located in the USA. International collect calls accepted. (800) 231-0623 or (510) 231-0623

Product Information

email : lubemsds@chevron.com
Product Information: (800) LUBE TEK
MSDS Requests: (800) 414-6737

SECTION 2 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Asphalt	8052-42-4	75 - 85 %weight
Distillates, hydrotreated light naphthenic	64742-53-6	2 - 9 %weight
DISTILLATES, PETROLEUM (CATALYTIC REFORMER),LOW BOILING	68477-31-6	5 - 6 %weight

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

- COMBUSTIBLE LIQUID AND VAPOR
- MAY CAUSE RESPIRATORY TRACT IRRITATION IF INHALED

- CAUSES EYE IRRITATION

IMMEDIATE HEALTH EFFECTS

Eye: Contact with the eyes causes irritation. Symptoms may include pain, tearing, reddening, swelling and impaired vision.

Skin: Contact with the skin is not expected to cause prolonged or significant irritation.

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. The vapor or fumes from this material may cause respiratory irritation. Symptoms of respiratory irritation may include coughing and difficulty breathing.

SECTION 4 FIRST AID MEASURES

Eye: Flush eyes with water immediately while holding the eyelids open. Remove contact lenses, if worn, after initial flushing, and continue flushing for at least 15 minutes. Get medical attention if irritation persists.

Skin: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

Ingestion: No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

Inhalation: Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue.

SECTION 5 FIRE FIGHTING MEASURES

See Section 7 for proper handling and storage.

FIRE CLASSIFICATION:

OSHA Classification (29 CFR 1910.1200): Combustible liquid.

NFPA RATINGS: Health: 1 Flammability: 2 Reactivity: 0

FLAMMABLE PROPERTIES:

Flashpoint: (Pensky-Martens Closed Cup) 79 °C (174 °F) Minimum

Autoignition: 455 °C (851 °F)

Flammability (Explosive) Limits (% by volume in air): Lower: 1.8 Upper: 11.7

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion. Combustion may form oxides of: Phosphorus, Sulfur .

SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in the vicinity of the spill or released vapor. If this material is released into the work area, evacuate the area immediately. Monitor area with combustible gas indicator.

Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. All equipment used when handling the product must be grounded. A vapor suppressing foam may be used to reduce vapors. Use clean non-sparking tools to collect absorbed material. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Reporting: Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

SECTION 7 HANDLING AND STORAGE

Precautionary Measures: Liquid evaporates and forms vapor (fumes) which can catch fire and burn with explosive force. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches. Fire hazard is greater as liquid temperature rises above 29C (85F).

Do not get in eyes, on skin, or on clothing. Do not breathe vapor or fumes. Wash thoroughly after handling.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77, 'Recommended Practice on Static Electricity', and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents'.

General Storage Information: DO NOT USE OR STORE near heat, sparks, flames, or hot surfaces. USE AND STORE ONLY IN WELL VENTILATED AREA. Keep container closed when not in use.

Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it 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 containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

SECTION 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 process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: Wear protective equipment to prevent eye contact. Selection of protective equipment may include safety glasses, chemical goggles, face shields, or a combination depending on the work operations conducted.

Skin Protection: Wear protective clothing to prevent skin contact. Selection of protective clothing may include gloves, apron, boots, and complete facial protection depending on operations conducted.

Suggested materials for protective gloves include: No special protective clothing is normally required.

Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: Neoprene, Silver Shield, Viton.

Respiratory Protection: Determine if airborne concentrations are below the recommended occupational exposure limits for jurisdiction of use. If airborne concentrations are above the acceptable limits, wear an approved respirator that provides adequate protection from this material, such as: Air-Purifying Respirator for Organic Vapors, Dusts and Mists.

If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

Occupational Exposure Limits:

Component	Agency	TWA	STEL	Ceiling	Notation
Asphalt	ACGIH	.5 mg/m ³	--	--	--
Distillates, hydrotreated light naphthenic	ACGIH	5 mg/m ³	10 mg/m ³	--	--
Distillates, hydrotreated light naphthenic	OSHA Z-1	5 mg/m ³	--	--	--

The ACGIH TLV is 0.5 mg/m³ as the benzene extractable portion of the inhalable fraction of asphalt fume. The TLV may also be determined by unspecified 'equivalent' methods.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Color: Black

Physical State: Viscous liquid

Odor: Petroleum odor

pH: Not Applicable

Vapor Pressure: 0.62 mmHg @ 20 °C (68 °F)

Vapor Density (Air = 1): 4.6

Boiling Point: 181°C (357.8°F)

Solubility: Negligible

Freezing Point: Not Applicable

Density: 8.3 lb/gal

Viscosity: 180 cSt @ 100°C (212°F) (Min)

Evaporation Rate: <1

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Incompatibility With Other Materials: May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Hazardous Decomposition Products: None known (None expected)

Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

IMMEDIATE HEALTH EFFECTS

Eye Irritation: The eye irritation hazard is based on evaluation of data for similar materials or product components.

Skin Irritation: The skin irritation hazard is based on evaluation of data for similar materials or product components.

Skin Sensitization: No product toxicology data available.

Acute Dermal Toxicity:

No product toxicology data available.

Acute Oral Toxicity: The acute oral toxicity hazard is based on evaluation of data for similar materials or product components.

Acute Inhalation Toxicity: The acute inhalation toxicity hazard is based on evaluation of data for similar materials or product components.

ADDITIONAL TOXICOLOGY INFORMATION:

There is concern about the carcinogenicity of chemical compounds found in asphalts. The International Agency for Research on Cancer (IARC) reviewed the carcinogenic potential of asphalts in 1985 and again in 1987. At that time, they concluded there was inadequate evidence to decide that asphalts were carcinogenic to humans. Overall, findings from health monitoring studies of asphalt workers are not conclusive. However, asphalt fume condensates and certain chemical components of asphalt fume have been shown to cause cancer in mice when repeatedly applied to the skin and allowed to remain on the skin for a prolonged period of time. In addition, asphalt fume condensates have been shown to be weakly positive in Ames mutagenicity tests. Skin contact and breathing of fumes, mists and vapors should be reduced to a minimum.

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). These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY

The toxicity of this material to aquatic organisms has not been evaluated. Consequently, this material should be kept out of sewage and drainage systems and all bodies of water.

ENVIRONMENTAL FATE

This material is not expected to be readily biodegradable. The product has not been tested. The statement has been derived from the properties of the individual components.

SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. 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.

SECTION 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 Description: UN1268, PETROLEUM PRODUCTS, N.O.S., COMBUSTIBLE LIQUID, III

IMO/IMDG Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORTATION UNDER THE IMDG CODE

ICAO/IATA Shipping Description: NOT REGULATED AS DANGEROUS GOODS UNDER THE ICAO TI/IATA DGR CODE

SECTION 15 REGULATORY INFORMATION

EPCRA 311/312 CATEGORIES:	1. Immediate (Acute) Health Effects:	YES
	2. Delayed (Chronic) Health Effects:	NO
	3. Fire Hazard:	YES
	4. Sudden Release of Pressure Hazard:	NO
	5. Reactivity Hazard:	NO

REGULATORY LISTS SEARCHED:

01-1=IARC Group 1	03=EPCRA 313
01-2A=IARC Group 2A	04=CA Proposition 65
01-2B=IARC Group 2B	05=MA RTK
02=NTP Carcinogen	06=NJ RTK
	07=PA RTK

No components of this material were found on the regulatory lists above.

Asphalt 01-2B, 04, 05, 06, 07

CHEMICAL INVENTORIES:

All components comply with the following chemical inventory requirements: DSL (Canada), TSCA (United States).

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 (Gear oil)

WHMIS CLASSIFICATION:

Class B, Division 3: Combustible Liquids

Class D, Division 2, Subdivision B: Toxic Material -
Skin or Eye Irritation**SECTION 16 OTHER INFORMATION****NFPA RATINGS:** Health: 1 Flammability: 2 Reactivity: 0**HMIS RATINGS:** Health: 1 Flammability: 2 Reactivity: 0 PPE: B
(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).**LABEL RECOMMENDATION:**

Label Category : INDUSTRIAL OIL 7 - IND7

REVISION STATEMENT: This revision updates the following sections of this Material Safety Data Sheet: 14,16.**Revision Date:** APRIL 21, 2010**ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:**

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Government Industrial Hygienists	IMO/IMDG - International Maritime Dangerous Goods Code
API - American Petroleum Institute	MSDS - Material Safety Data Sheet
CVX - Chevron	NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on Cancer	OSHA - Occupational Safety and Health Administration

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the Chevron Energy Technology Company, 100 Chevron Way, Richmond, California 94802.

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 modifications of the information, we do not assume any responsibility 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.

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Material Safety Data Sheet

SECTION 1

PRODUCT AND COMPANY IDENTIFICATION

Product Name: Lucas Air Tool Lube/ Tool Box Buddy

Product Description: Base Oil and Additives

Product Number: 10200,10216/10070

Intended Use: Lubricating Oil

COMPANY IDENTIFICATION

Supplier: Lucas Oil Products Inc.

302 North Sheridan St.

Corona, ca. 92880 USA

Phone #: 1 (800) 342-2512

SECTION 2

COMPOSITION / INFORMATION ON INGREDIENTS

No Reportable Hazardous Substance(s) or Complex Substance(s).

Name	CAS#	Concentration*
Distillate (petroleum) Hydrotreated Heavy Paraffinic	64742-54-7	<95%

SECTION 3

HAZARDS IDENTIFICATION

This material is not considered to be hazardous according to regulatory guidelines.

POTENTIAL HEALTH EFFECTS

Low order of toxicity. Excessive exposure may result in eye, skin, or respiratory irritation.

NFPA Hazard ID: Health: 1

Flammability: 1

Reactivity: 0

HMIS Hazard ID: Health: 1

Flammability: 1

Reactivity: 0

SECTION 4

FIRST AID MEASURES

INHALATION

Remove exposed person to fresh air. If respiratory symptoms develop seek medical attention.

SKIN CONTACT

Wash skin with mild soap and water for at least 15 minutes while removing contaminated clothing.

EYE CONTACT

Flush thoroughly with water for at least 15 minutes. If irritation occurs, seek medical attention.

INGESTION

Do not induce vomiting. If conscious give milk or water and seek medical attention.

SECTION 5**FIRE FIGHTING MEASURES****EXTINGUISHING MEDIA**

Appropriate Extinguishing Media: Use dry chemical, carbon dioxide, halon, or foam to extinguish flames.

Inappropriate Extinguishing Media: Straight streams of water.

FLAMMABILITY PROPERTIES

Flash Point: >400°F

SECTION 6**ACCIDENTAL RELEASE MEASURES****SPILL MANAGEMENT**

Land Spill: Stop source of ignition. Prevent additional discharge of material, if possible to do so safely. Contain and/or clean up with sand or earth on land.

ENVIRONMENTAL PRECAUTIONS

Prevent entry into waterways, drains or sewers.

SECTION 7**HANDLING AND STORAGE****HANDLING**

Keep container tightly closed. Eating, drinking and smoking should be prohibited in areas where this material is handled. Wash hands and face before eating.

STORAGE

Store in a cool well ventilated place, away from heat and/or incompatible materials.

SECTION 8**EXPOSURE CONTROLS / PERSONAL PROTECTION****ENGINEERING CONTROLS:**

No special requirements under ordinary conditions of use and with adequate ventilation.

PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection:

No special requirements under ordinary conditions of use and with adequate ventilation.

Hand Protection:

No protection is ordinarily required under normal conditions of use.

Eye Protection: If contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection:

No skin protection is ordinarily required under normal conditions of use.

Ingredient**Exposure Limits**

Paraffinic Oil

ACGIH TLV (TWA: 5 mg/m³ 8 hours) – United States

Canada (Ingredient)

TWA: 5 mg/m³ 8 hours, STEL: 10 mg/m³ 8 hours

SECTION 9**PHYSICAL AND CHEMICAL PROPERTIES**

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

GENERAL INFORMATION

Physical State: Liquid

Color: Clear Yellow

Odor: Characteristic petroleum

Density: 7.438 pounds/gallon

Flash Point: 425°F

Autoignition Temperature: N/D

Boiling Point: >500°F

pH: N/D

Solubility in Water: Negligible @ 25°C

Viscosity cSt at 100°C: Greater than or equal to: 7.5

SECTION 10**STABILITY AND REACTIVITY**

STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Excessive heat.

MATERIALS TO AVOID: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

SECTION 11**TOXICOLOGICAL INFORMATION****Acute Toxicity:**

Product/Ingredient Name	Result	Species	Dosage
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Paraffinic Oil	LD 50 Dermal	Rabbit	>5g/kg
	LD 50 Oral	Rat	>5 g/kg
	LD 50 Inhalation	Rat	> 5mg/Liter

Carcinogenicity, Mutagenicity, Teratogenicity and Reproductive Toxicity: No data

No known significant effects or critical hazards.

SECTION 12

ECOLOGICAL INFORMATION

Aquatic Ecotoxicity: None. Not readily biodegradable

SECTION 13

DISPOSAL CONSIDERATIONS

Disposal must be in accordance with current applicable regional, national and local laws and regulations.

SECTION 14

TRANSPORT INFORMATION

DOT: Not Regulated

TDG: Not Regulated

Mexico: Not Regulated

ADR/RID Class: Not Regulated

IMDG: Not Regulated

IATA-DGR Class: Not Regulated

SECTION 15

REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this material is not classified as hazardous.

HCS Classification: Not Regulated

TSCA 8(a) PAIR: Not determined

TSCA 8(a) IUR Exempt/Partial exemption: Not determined

U.S. TSCA: All components listed

SARA 302/304/311/312/313: None

Clean Water Act: (CWA) 307: Not Regulated

CERCLA RQ – 40 CFR 302.4: None

Name	CAS#	Concentration*
Distillate (petroleum) Hydrotreated Heavy Paraffinic	64742-54-7	<95%

SECTION 16

OTHER INFORMATION

N/D

Original Date: 12-23-04 Updated: 04-11-12

We believe the statements, technical information, and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use.

89

MATERIAL SAFETY DATA SHEET

PART NUMBER: 2001928
IDENTITY: O-ring lubricant, Barium base, 1oz
MANUFACTURER: **PARKER HANNIFIN O-RING DIVISION**
ADDRESS: 2400 BARRANCA PARKWAY
IRVINE, CA 92606
TELEPHONE: 949/757-8500
(1-800-424-9300 24 Hr. CHEMTREC/ CODE: RANA)

DATE REVISED: 01-26-11
PREPARED BY: T. PHILLIPS

SECTION 1--MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS	CAS #	%	OSHA PEL	ACGIH TLV	OTHER LIMIT RECOMMENDED
Petroleum Naphthenic Oil	64742-52-5	70-75			
Barium Soap - Insoluble	68201-19-4	25-30			

NON-HAZARDOUS INGREDIENTS
TOTAL

100

No health hazard or other information is available for the solution of the mixture. The following sections are based on information obtained from Parker Hannifin Corp. O-Ring Division (859) 269-2351 and our best scientific understanding of the solution

PARKER O-LUBE MATERIAL SAFETY DATA SHEET

Date: 1/7/2005

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

Section I

Manufacturer's Name Parker Hannifin Corp., O-Ring Division

Emergency Telephone No. (859) 269-2351

Address 2360 Palumbo Drive, PO Box 11751, Lexington, KY 40512

Trade Name and Synonyms Parker O-Lube

Chemical Family Petroleum Grease

Section II - Hazardous Ingredients

Hazardous Mixture of Other Liquids, Solids, or Gasses

Petroleum Naphthenic Oil CAS #64742-52-5 70-75% by weight

Barium Soap - Insoluble CAS #68201-19-4 25-30% by weight

NFPA (HMIS) Code: Health-1, Flammability-0, Reactivity-0

Section III - Physical Data

Boiling Point (°F) 700

Specific Gravity Less than 1.0

Vapor Pressure N/A

Percent, Volatile by Volume (%) N/A

Vapor Density (Air=1) N/A

Evaporation Weight Less than 1.0

Solubility in Water Negligible

Appearance and Odor Semi-Solid, Amber Color, No Odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) 435°(Open Cup)

Flammable Limits N/A **le:** N/A **ue:** N/A

Extinguishing Media Carbon dioxide, Foam and Dry Chemical

Special Fire Fighting Procedure Wear self contained breathing apparatus. Water or foam may cause frothing which can be violent, especially if sprayed into containers of hot burning liquid.

Unusual Fire and Explosion Hazards: Never use welding or cutting torch on or near (even empty)

container because product (even just residue) can ignite explosively

Section V - Health Hazard Data

Threshold Limit Value 5 mg/m³

Permissible Exposure Level 5 mg/m³

Effects on Overexposure Eyes: Moderate irritation, redness tearing

Skin: Slight irritation

Swallowing: Gastric intestinal irritation, nausea, vomiting & diarrhea

Inhalation: None known.

Emergency & First Aid Procedure Ingestion: Immediately drink 2 glasses of water, induce vomiting, medical attention.

Eyes: Flush with large amounts of water, lifting eye lids occasionally, seek medical attention.

Skin: Wash exposed area with soap & water.

Inhalation: N/A

Section VI - Reactivity Data

Stability Stable

Conditions to Avoid Temperatures over 600° F

Incompatibility (Materials to avoid) Strong Oxidizers

Hazardous Decomposition Product Carbon Monoxide - Carbon Dioxide and various hydrocarbons

Hazardous Polymerization Will not occur.

Section VII -Spill or Leak Procedures

Steps to be taken in case material is released or spilled

Small Spill: Collect in beaker.

Large Spill: Persons not wearing protective equipment should be excluded from area of spill until cleanup has been completed. Shovel material

into container. Remaining material should be taken up with absorbent material.

Waste Disposal Method Per local, state, and federal regulations.

Section VIII - Special Protection Information

Respiratory Protection (*Specify type*) Not required under normal use.

Ventilation Local Exhaust: N/A

Special: N/A

Mechanical: Recommended

Other N/A

Protective Gloves Oil resistant gloves such as Nitrile or Neoprene Rubber.

Eye Protection Not required under normal use.

Other Protective Gear N/A

Section IX- Special Precautions

Precautions to be taken in Handling and Storing Normal precautions - avoid fire hazards.

Other Precautions None.

The information contained herein is believed to be reliable, but no representations, guarantees, or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained therefrom. Nothing herein is to be considered as permission, recommendation, nor as an inducement, to practice any patented invention without permission of the patent owner.

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**DESCRIPTIVE FEATURES OF PARKER'S
SUPER O-LUBE**

3/7/2007

Description: Clear Dimethyl Siloxane Polymer

Physical Data:	Viscosity @ 77° F	100,000 centistokes
	Flash Point:	Open Cup > 610° F
	Pour Point:	-33° F
	Specific Gravity @ 77° F:	0.98
	Viscosity Temperature Coefficients:	0.61
	Coefficient of Expansion (cc/cc/°c):	0.00096
	Refractive Index @ 77° F:	1.4037
	Volatility (% wt. loss .24 hours @ 302° F):	< 2%
	Boiling Point:	>300° F
	Vapor Pressure:	< 5 mmHg
	Solubility in Water	< 0.1%

Solvents: Amyl acetate, benzene, carbon tetrachloride, chloroethene NU, cyclohexane, diesel fuel, ethylene dichloride, ethyl ether, 2-ethyl hexanol, gasoline, hexyl ether, methylene chloride, methyl ether, mineral seal oil, naphtha VM+P, perchloroethylene, stoddard solvent, toluene, trichloroethylene, turpentine, xylene, JP-4 jet fuel, kerosene.

Non-Solvents: Cyclohexanol, dimethylphthalate, dodecanol, Dowanol DE, Dowanol EE, ethylene glycol, methanol, paraffin oil, propylene glycol, water.

Please note: solvents and non-solvents are listed here for the purposes of application compatibility and clean-up. These chemicals are NOT present in Parker Super-O-Lube.

**PARKER SUPER O-LUBE
MATERIAL SAFETY DATA SHEET**

*Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)*

3/7/2007

Section I

Manufacturer's Name	Parker Hannifin Corp., O-Ring Division
Emergency Telephone No.	(859) 269-2351
Address	2360 Palumbo Drive, PO Box 11751, Lexington, KY 40512
Trade Name and Synonyms	Super O-Lube
Chemical Family	Clear Polysiloxane Polymer

Section II - Hazardous Ingredients**Hazardous Mixture of Other Liquids, Solids, or Gasses**

None Present

NFPA (HMIS) Code: Health-1, Flammability-0, Reactivity-0

CAS#: 63148-62-9

All ingredients are listed on the TSCA Chemical Substances Inventory.

Section III - Physical Data

Boiling Point (°F)	Above 300
Specific Gravity	.98
Vapor Pressure	below 5 mmHG
Percent, Volatile by Volume (%)	N/A
Vapor Density (Air=1)	N/A
Evaporation Rate	Below 1.0
Solubility in Water	Less than 0.1%
Appearance and Odor	Liquid, clear and very little color

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Open Cup > 610° F
Flammable Limits	N/A Le: N/A Ue: N/A
Extinguishing Media	Carbon dioxide, or foam
Special Fire Fighting Procedure	Self contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.
Unusual Fire and Explosion Hazards:	None known.

The information contained herein is believed to be reliable, but no representations, guarantees, or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained therefrom. Nothing herein is to be considered as permission, recommendation, nor as an inducement, to practice any patented invention without permission of the patent owner.

Section V - Health Hazard Data

Threshold Limit Value	
Effects on Overexposure	May cause temporary eye discomfort due to over exposure.
Emergency & First Aid Procedure	Flush with water.
D.O.T. Hazard Name/ID no.:	None
RCRA Hazard Class:	None
E.P.A. Priority Pollutants:	None
NFPA (HMIS) Code:	115

Section VI - Reactivity Data

Stability	Stable
Conditions to Avoid	N/A
Incompatibility (Materials to avoid)	Strong Oxidizers
Hazardous Decomposition Product	Carbon Monoxide - Carbon Dioxide and various hydrocarbons
Hazardous Polymerization	Will not occur.

Section VII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled	Use absorbent material to collect and contain for salvage or disposal.
Waste Disposal Method	Land fill or burned in accordance with local regulation.

Section VIII - Special Protection Information

Respiratory Protection (<i>Specify type</i>)	N/A
Ventilation	N/A
Local Exhaust:	N/A
Special:	N/A
Mechanical:	Recommended
Other	N/A
Protective Gloves	Recommended.
Eye Protection	Safety Glasses.
Other Protective Gear	N/A

Section IX- Special Precautions

Precautions to Be taken in Handling and Storing	Normal precautions.
Other Precautions	At elevated temperatures, this product is sensitive to contamination. If this product becomes contaminated with strong acids, bases, some metallic compounds, or oxidizing agents, the flash point and viscosity may change and should be redetermined.

The information contained herein is believed to be reliable, but no representations, guarantees, or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained therefrom. Nothing herein is to be considered as permission, recommendation, nor as an inducement, to practice any patented invention without permission of the patent owner.

i

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number 74116
Product name Maintenance Magic PTFE Dry Lube
Effective date 07-May-2012
Company information IBS, Inc.
PO BOX 1717
Auburn, WA 98071 United States
Company phone General Assistance 800-678-1906
Emergency telephone US 1-800-255-3924
Emergency telephone outside US 1-813-248-0573
Version # 05
Supersedes date 16-Mar-2012
Product use Lubricant

2. Hazards Identification

Emergency overview Aerosol. EXTREMELY FLAMMABLE
CONTENTS UNDER PRESSURE. Will be easily ignited by heat, spark or flames.
Irritating to respiratory system. Prolonged exposure may cause chronic effects.

Potential health effects

Routes of exposure Inhalation. Ingestion. Skin contact.

Eyes Health injuries are not known or expected under normal use. Eye contact may result in corneal injury.

Skin Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Inhalation Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Irritating to respiratory system. Prolonged inhalation may be harmful.

Ingestion Exposure by ingestion of an aerosol is unlikely. May cause delayed lung damage. Components of the product may be absorbed into the body by ingestion.

Target organs Central nervous system. Lungs.

Chronic effects Unconsciousness. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. May cause delayed lung damage. Prolonged skin contact may defat the skin and produce dermatitis.

Signs and symptoms Discomfort in the chest. Narcosis. Cyanosis. Defatting of the skin. Irritation.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Propane	74-98-6	20 - 30
n-Butane	106-97-8	20 - 30
Aliphatic Petroleum Solvent	142-82-5	20 - 30
Acetone	67-64-1	10 - 15
Ethyl Alcohol	64-17-5	3 - 5
Non-hazardous and other components below reportable levels		2.5 - 10

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops or persists.

Skin contact Immediately take off all contaminated clothing. Wash off with warm water and soap. Get medical attention if irritation develops or persists.

Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Call a physician if symptoms develop or persist.
Ingestion	If material is ingested, immediately contact a poison control center. Have victim rinse mouth thoroughly with water. Do not induce vomiting without advice from poison control center. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Notes to physician	Symptoms may be delayed.

5. Fire Fighting Measures

Flammable properties	Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may cause fire or explosion hazard.
Extinguishing media	
Suitable extinguishing media	Alcohol foam. Dry chemical. Carbon dioxide (CO2). Do not use water jet.
Protection of firefighters	
Specific hazards arising from the chemical	Fire may produce irritating, corrosive and/or toxic gases.
Protective equipment and precautions for firefighters	In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Containers should be cooled with water to prevent vapor pressure build up. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

6. Accidental Release Measures

Methods for containment	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Should not be released into the environment. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly. Avoid dust formation.

7. Handling and Storage

Handling	Pressurized container: Do not pierce or burn, even after use. Do not handle or store near an open flame, heat or other sources of ignition. Do not smoke while using or until sprayed surface is thoroughly dry. Do not use if spray button is missing or defective. Use only with adequate ventilation. Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid prolonged exposure.
Storage	Level 3 Aerosol. Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Keep away from heat, sparks, and flame. Avoid exposure to long periods of sunlight. Store in cool place. Keep container tightly closed. Keep in an area equipped with sprinklers. Keep out of the reach of children. Level 3 Aerosol. Do not store, incinerate, or heat this material above 120 degrees Fahrenheit.

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH

Components	CAS #	TWA	STEL	Ceiling
Propane	74-98-6	1000 ppm	Not established	Not established
n-Butane	106-97-8	1000 ppm	Not established	Not established
Aliphatic Petroleum Solvent	142-82-5	400 ppm	500 ppm	Not established
Acetone	67-64-1	500 ppm	750 ppm	Not established
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm	Not established

OSHA

Components	CAS #	TWA	STEL	Ceiling
Propane	74-98-6	1000 ppm	Not established	Not established
Aliphatic Petroleum Solvent	142-82-5	500 ppm	Not established	Not established
Acetone	67-64-1	1000 ppm	Not established	Not established
Ethyl Alcohol	64-17-5	1000 ppm	Not established	Not established

Personal protective equipment

Eye / face protection	Wear chemical goggles.
Skin protection	Wear appropriate chemical resistant clothing. Protective gloves.
Respiratory protection	If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

9. Physical & Chemical Properties

Appearance	Compressed liquefied gas.
Boiling point	69.8 °F (21.1 °C) estimated
Color	Tan.
Density	0.6264 g/cm3 estimated
Flammability (HOC)	37.9466 kJ/g estimated
Flash back	Yes
Flash point	-156 °F (-104.4 °C) Propellant
Form	Liquid. Aerosol.
Freezing point	Not available
Odor	None known.
pH	Not applicable
Physical state	Liquid.
Pressure	55 - 70 psig @70°F
Solubility	Partially
Specific gravity	0.6265 estimated

10. Chemical Stability & Reactivity Information

Chemical stability	Risk of ignition.
Conditions to avoid	Heat, flames and sparks.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological Information

Acute effects	Acute LD50: 12472 mg/kg estimated, Rat, Dermal Acute LC50: 340 mg/l/4h estimated, Rat, Inhalation
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Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

Acetone	67-64-1	Oral LD50 Rat 5800 mg/kg
Aliphatic Petroleum Solvent	142-82-5	Inhalation LC50 Rat 103 g/m ³ 4 h; Oral LD50 Mouse 5000 mg/kg; Dermal LD50 Rabbit 3000 mg/kg
Ethyl Alcohol	64-17-5	Oral LD50 Rat 7060 mg/kg; Inhalation LC50 Rat 124.7 mg/L 4 h
n-Butane	106-97-8	Inhalation LC50 Rat 658 mg/L 4 h
Propane	74-98-6	Inhalation LC50 Rat 658 mg/L 4 h

Sensitization

Not expected to be hazardous by OSHA criteria.

Carcinogenicity

IARC - Group 1 (Carcinogenic to Humans)

Ethyl Alcohol	64-17-5	Monograph 100E [in preparation] (in alcoholic beverages); Monograph 96 [2010] (in alcoholic beverages)
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Teratogenicity

Not expected to be hazardous by OSHA criteria.

12. Ecological Information

Ecotoxicity

Components of this product have been identified as having potential environmental concerns.

LC50 34223 mg/L estimated, Fish, 96.00 Hours,
EC50 61368 mg/L estimated, Daphnia, 48.00 Hours,
IC50 21293 mg/L estimated, Algae, 72.00 Hours,

13. Disposal Considerations

Waste codes

D001: Waste Flammable material with a flash point <140 F

Disposal instructions

Contents under pressure. Dispose of this material and its container at hazardous or special waste collection point. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.

14. Transport Information

Department of Transportation (DOT) Requirements

Basic shipping requirements:

Proper shipping name	Aerosols
Hazard class	2.1
UN number	UN1950
Additional information:	
Special provisions	153, N82
Packaging exceptions	LTD QTY
Packaging non bulk	None
Packaging bulk	None



Further information

Until 12/31/2013, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/13 and may be used now in place of the "Consumer Commodity ORM-D" marking but not concurrently.

IMDG

Basic shipping requirements:

Proper shipping name	AEROSOLS
Hazard class	2.1
UN number	1950
Additional information:	
Packaging exceptions	LTD QTY
Item	5F
Labels required	None
Transport Category	2



Basic shipping requirements:	
Proper shipping name	Aerosols, flammable
Hazard class	2.1
UN number	1950
Additional information:	
Packaging exceptions	LTD QTY
Labels required	None



US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
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29 CFR 1910.1200 hazardous chemical	Yes
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Acetone: 5000 0000

Section 302 extremely hazardous substance	No
Section 311 hazardous chemical	Yes
Hazard categories (311/312)	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

WARNING: This product contains a chemical known to the State of California to cause cancer.

Acetone	67-64-1	Environmental hazard
Aliphatic Petroleum Solvent	142-82-5	Present
Ethyl Alcohol	64-17-5	Present
n-Butane	106-97-8	Present
Propane	74-98-6	Present

Further information

HMIS® is a registered trade and service mark of the NPCA.

Health: 1*
Flammability: 4
Physical hazard: 0

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Regulatory Compliance

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MATERIAL SAFETY DATA SHEET
COMPLIES WITH OSHA'S HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

SECTION I · PRODUCT IDENTIFICATION

Product Name: BELT DRESSING
Product Number: 74117
Product Type: AEROSOL
Distributor's Name: IBS, Inc.
Distributor's Address: P.O. Box 1717, Auburn, WA 98071-1717
D.O.T. Hazard Class: CONSUMER COMMODITY - ORM-D

Formula: Proprietary
Date Prepared: 10/07/04
Emergency Phone: (800) 255-3924
Information Phone: (800) 678-1906

HMIS Rating (Based on Aerosol Conc.):
0-Minimal 1- Slight 2- Moderate
3- Serious 4- Extreme **DistriDD**
HEALTH: 2 **FIRE:** 2 **REACTIVITY:** 0 DdD
Personal Protection: G

SECTION II · INGREDIENTS

CHEMICAL NAME	CAS #	%WT	313/Chem	Skin	Carcinogen	PEL	TWA/TLV
Trichloroethylene	79-01-6	30-40	YES	NO	YES	50 ppm	50 ppm
Polybutene	9003-29-6	10-20	NO	NO	NO	N/E	N/E
Isoparaffinic Hydrocarbon	64741-66-8	01-10	NO	NO	NO	400 ppm	400 ppm
Liquified Petroleum Gas	68476-85-7	30-50	NO	NO	NO	1000 ppm	1000 ppm

SECTION III · PHYSICAL DATA

Data Below Based On Aerosol Concentrate Only:

Boiling Point: ~ 190°F

pH: N/A

Solubility In Water: Insoluble

Appearance/Odor: Transparent Liquid, Solvent Odor

Data Below Based On Total Contents:

Vapor Pressure of can (psig @70°F): 50

Total VOC %: ~ 85%

Vapor Density(Air=1): >1

Specific Gravity (H₂O=1)@75°F: 1.14

SECTION IV · FIRE AND EXPLOSION DATA

Flash Point (of Concentrate Only): 156°F (T.O.C.)

Flammability (as per USA Flame Projection Test): Flammable Spray

Extinguishing Media: Foam, CO₂, Dry Media

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing. Cool fire exposed containers to prevent rupturing.

Unusual Fire and Explosion Hazards: Exposure to temperature above 120° F may cause bursting.

SECTION V · REACTIVITY DATA

Stability: Material Stable.

Hazardous Polymerization: Will not Occur.

Incompatibility: Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products: Carbon Dioxide, Carbon Monoxide, Hydrogen Chloride and possible trace amounts of phosgene.

SECTION VI · STORAGE AND HANDLING

KEEP OUT OF REACH OF CHILDREN.

For Industrial and Institutional use only.

Store in a cool, dry area away from heat or open flame.

Do not store at temperatures above 120° F.

NFPA Code 30B Rating: Level 2 Aerosol.

SECTION VII · HEALTH AND FIRST AID

PRIMARY ROUTES OF ENTRY & EFFECTS OF OVER EXPOSURE:

Eyes: Causes pain, redness and irritation.

Skin: Frequent or prolonged contact may cause irritation.

Inhalation: Inhalation may result in nervous system depression. Inhalation of mist can cause irritation of nasal and respiratory passages. Abusive or excessive inhalation may cause irritation to the upper respiratory tract, dizziness, nausea and other central nervous system effects.

Ingestion: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis.

FIRST AID PROCEDURES:

Eyes: Flush with large amounts of cool running water for at least 15 minutes while holding upper and lower lids open. If irritation persists get medical attention immediately.

Skin: Wash with soap and water. If irritation persists seek medical attention.

Inhalation: Remove to fresh air. Seek medical attention immediately. If breathing stops give artificial respiration.

Ingestion: Do not induce vomiting. Seek medical attention immediately.

SECTION VIII · SPECIAL PROTECTION DATA

Respiratory Protection: None needed for proper use in accordance with label directions. If ventilation is not adequate to reduce vapors below Threshold Limit Value (TLV) levels, use a NIOSH/OSHA approved air-purifying respirator equipped with an organic vapor cartridge.

Ventilation: Provide local exhaust to keep TLV of Section II ingredients below acceptable limits.

Protective Gloves: Use chemical resistant gloves if hand contact will be made.

Eye Protection: Wear chemical proof splash goggles or face shield with safety glasses for splash protection.

SECTION IX · SPILL OR LEAK PROTECTION

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK: Allow propellant to evaporate. Maintain local exhaust and adequate ventilation. No smoking. Keep sparks, heat sources and open flame far away from spill or leak. Cover with absorbent material and sweep up. Wash area to prevent slipping. Dispose of soaked absorbent material in accordance with Federal, State and local laws.

WASTE DISPOSAL METHOD: Aerosol cans, when emptied and depressurized through normal use, pose no disposal hazard and should be recycled. Consult Federal, State and local authorities for approved procedures.

N/A= NOT APPLICABLE · N/E=NOT ESTABLISHED · N/D=NOT DETERMINED · <=LESS THAN · >=MORE THAN

NOTICE: The information contained on this Material Safety Data Sheet is considered accurate as of the date of publication. It is not necessarily all inclusive nor fully adequate in every circumstance. The suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, express or implied, of merchantability, fitness, accuracy of data, or the results to be obtained from the use thereof is made. The vendor assumes no responsibility for injury or damages resulting from the inappropriate use of this product.

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Material Safety Data Sheet

LOCTITE®



Revision Number: 001.1

Issue date: 02/10/2009

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Silver Grade Anti-Seize Stick
Product type: Lubricant

IDH number: 466864
Item number: 37230
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.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: solid
Color: Silver
Odor: Mild

HMIS:

HEALTH: 1
FLAMMABILITY: 1
PHYSICAL HAZARD: 0
Personal Protection: See MSDS Section 8

CAUTION: CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation: Moderate respiratory tract irritation.
Skin contact: Moderate skin irritation.
Eye contact: Moderate eye irritation.
Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Principal hazard of ingestion is aspiration into the lungs and subsequent pneumonitis.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders.

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

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	10 - 30
Mineral oil light naphthenic hydrotreat. <3% DMSO	64742-53-6	10 - 30
Graphite	7782-42-5	10 - 30
Calcium oxide	1305-78-8	10 - 30
Aluminum not powder, dust or fume	7429-90-5	5 - 10

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

Skin contact: Wash with soap and water. If symptoms develop and persist, get medical attention.

Eye contact: Get medical attention. Immediately flush eyes with plenty of water for at least 15 minutes.

Ingestion:

Do not induce vomiting. Aspiration may cause pulmonary edema and pneumonitis. Get medical attention.

5. FIRE FIGHTING MEASURES

Flash point:	Product is a solid. Burn Rate: Approx 12 mm/2 minutes
Autoignition temperature:	Not determined
Flammable/Explosive limits - lower:	Not determined
Flammable/Explosive limits - upper:	Not determined
Extinguishing media:	Carbon dioxide. Dry chemical. Foam.
Special firefighting procedures:	None
Unusual fire or explosion hazards:	None
Hazardous combustion products:	Oxides of carbon.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: No special environmental precautions required.

Clean-up methods: Scrape up as much material as possible. Clean residue with soap and water. Follow all local, state, federal and provincial regulations for disposal.

7. HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Avoid contact with eyes, skin and clothing. Keep container closed.

Storage: Keep in a cool, well ventilated area.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Distillates (petroleum), hydrotreated heavy naphthenic	5 mg/m3 TWA mist 10 mg/m3 STEL mist	5 mg/m3 TWA mist	None	None
Mineral oil light naphthenic hydrotreat. <3% DMSO	5 mg/m3 TWA Mist. 10 mg/m3 STEL Mist.	500 ppm (2,000 mg/m3) TWA	None	None
Graphite	2 mg/m3 TWA Respirable fraction.	5 mg/m3 TWA Respirable fraction, 15 mg/m3 TWA Total dust, 15 MPPCF TWA	None	None
Calcium oxide	2 mg/m3 TWA	5 mg/m3 TWA	None	None
Aluminum not powder, dust or fume	1 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA (as Al) Total dust. 5 mg/m3 TWA (as Al) Respirable dust.	None	None

Engineering controls:	Use only with adequate ventilation. Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits.
Respiratory protection:	Observe OSHA regulations for respiratory use (29 CFR 1910.134). Use NIOSH approved respirator if there is potential to exceed exposure limit(s).
Eye/face protection:	Safety glasses with side-shields. Goggles.
Skin protection:	Cover as much of the exposed skin area as possible with appropriate clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	solid
Color:	Silver
Odor:	Mild
Odor threshold:	Not available
pH:	Not applicable
Vapor pressure:	Not determined
Boiling point/range:	Not available
Melting point/ range:	Not available
Specific gravity:	1.10
Vapor density:	Not determined
Flash point:	Product is a solid. Burn Rate: Approx 12 mm/2 minutes
Flammable/Explosive limits - lower:	Not determined
Flammable/Explosive limits - upper:	Not determined
Autoignition temperature:	Not determined
Evaporation rate:	Not determined
Solubility in water:	Insoluble
Partition coefficient (n-octanol/water):	Not determined
VOC content:	12.69 %; 147 g/l

10. STABILITY AND REACTIVITY

Stability:	Stable at normal conditions.
Hazardous reactions:	Will not occur.
Hazardous decomposition products:	Oxides of carbon.
Incompatible materials:	Oxidizing agents.
Conditions to avoid:	None known