



SPECIALIZED LUBRICANTS

1. Substance/Product Identification

Product Name: 278 Super Polyurea Grease

Company/Address: Schaeffer Mfg
102 Barton Street
Saint Louis, Missouri 63104
USA

Synonyms:

Preparation/Revision Date: 04/22/2014

Product Use/Type: Extreme pressure lubricating grease

Emergency Phone Number: +1 314 865-4105 (24-hour response number)
+ 1 314 865-4100 (Business hours 8:30AM-5:00PM)
1-800-325-9962 (US & Canada)

Website: www.schaefferoil.com

MSDS Number: 278 Version 1.0

2. Hazards Identification

Appearance: Aquamarine

Odor: Slight Petroleum Odor

Principal Hazards:

**Hazardous Materials Information System
(U.S.A)**

**Health: 0
Fire: 1
Reactivity: 0**

**National Fire Protection Agency System
(U.S.A.)**

**Health: 0
Fire: 1
Reactivity: 0**

NOTE: This material should not be used for any other purpose than the intended use listed in Section 1 without expert advice. Health studies on similar products have indicated that chemical exposure may cause potential human health risks which may vary from person to person.

See Section 11 for complete health hazard information

3. Composition and Information on Ingredients

This material is not considered to be hazardous according to regulatory guidelines. (See Section 15)

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4. First Aid Measures

Ingestion: If swallowed, do not induce vomiting. Give the person a glass of water or milk to drink and get immediate medical attention. Never give anything by mouth to an unconscious person.

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

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.

Skin: To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse. Get medical attention if any irritation or redness develops.

Additional Information: Ingestion of this product or subsequent vomiting may result in aspiration of light hydrocarbon liquid, which may cause pneumonitis.

In the event of injection in underlying tissue, immediate treatment should include extensive incision, debridement and saline irrigation. Inadequate treatment can result in ischemia and gangrene.

5. Fire Fighting Measures:

Flash Point: 455°F (235°C) Cleveland Open Cup ASTM D-92

Extinguishing Media: Use water fog, foam, dry chemical, halon or carbon dioxide (CO₂) to extinguish flames.

Firefighting Procedures: Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply. Fire fighters should use self-contained breathing apparatus (SCBA) to fight fires. Use water spray to cool fire exposed surfaces and to protect personnel.

Hazardous Combustions Products: Aldehydes, incomplete combustion products, smoke, fumes, sulfur oxides and oxides of carbon.

6. Accidental Release Measures

Spill Procedures and Cleanup methods: Eliminate all sources of ignition in vicinity of spilled material. 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 sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Personal Precautions: Wear appropriate personal protective equipment when cleaning up spills.

Environmental Precautions: U.S.A. regulations may require reporting spills of this material that could reach any surface waters. Report spills to local authorities and/or the National Response Center at (800) 424-8802 as appropriate or required. Report spills to all applicable National, International, Federal, State, Provincial and local authorities

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7. Handling & Storage

Handling: Avoid all contact of product with eyes and skin. Wash thoroughly after handling and before eating, smoking or using toilet facilities. Do not swallow or inhale vapors. Do not eat, drink or smoke in work areas. Empty containers may contain product residues that can ignite with explosive force. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to flames, sparks, heat or other potential ignition sources.

Storage: Do not store product at elevated temperatures. Store in a cool dry place that has adequate ventilation. Do not store near food or feed products. Keep containers closed when not in use. Do not store above 120°F

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 cut, weld, braze, solder, drill, grind or expose containers to heat, flame, sparks, static electricity or other sources of ignition. There 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.

8. Exposure Controls and Personal Protection

Occupational Exposure Limits

Ingredient	OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Complex Mixture of petroleum base oils	5 mg/m ³		5 mg/m ³	
When mists/aerosols occur	5 mg/m ³		5 mg/m ³	10 mg/m ³

(s)-Skin exposure (p) proposed limit (c) – Ceiling limit (l) Recommended exposure limit
(u) supplier limit (N/E) – not established

Other Exposure Limits

Engineering Controls: If user operations generate an oil mist, determine if airborne concentrations are below the OSHA Permissible Limit (PEL) of 5 mg/m³ for mineral oil mist. If not, wear a NIOSH approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge

Personal Protective Equipment

Gloves: Nitrile or oil resistant gloves

Protective Clothing: Wear impervious protective clothing to prevent skin contact. Selection of protective clothing may include gloves, apron, boots, and complete facial protection depending on operations conducted. Users should determine acceptable performance characteristics of protective clothing. Consider physical requirements and other substances present when selecting protective clothing.

Eye Protection: Wear eye protection such as safety glasses, chemical goggles, or face shields if engineering controls or work practices are not adequate to prevent eye contact.

Skin Protection: Wear impervious protective clothing to prevent skin contact.

Respiratory Protection: None required in normal use. Use only NIOSH/MSHA Organic vapor approved equipment if necessary.

Special Hygiene Measures: Practice good personal hygiene. Wash hands after use and handling.

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9. Physical and Chemical Properties

Relative Density (at 15°C): 0.94

Flashpoint (Cleveland Open Cup): 455°F (235°C)

Flammable Limits (Approximate volume% in Air): LEL: NE ; UEL: NE

Autoignition Temperature: NE

Boiling Point / Range: NE

Vapor Density (Air = 1): < 1 mm

Vapor Pressure, mmHg at 25C: < 1 mm

Evaporation Rate (n-butyl acetate = 1): NE

pH: NE

Log Pow (n-Octanol/Water Partition Coefficient): NE

Solubility in Water: Slight

Viscosity of oil used: VG 220

Appearance: Aquamarine color

Odor: Mild petroleum odor

The above data are typical values and do not constitute a specification. Vapor pressure data are calculated unless otherwise specified

10. Stability and Reactivity

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

Materials to Avoid: Strong oxidizing agents, heat, open flame.

Polymerization: Not expected to occur during conditions of normal use.

Hazardous Decomposition Products: Does not decompose at ambient temperatures.

Conditions to Avoid: Excessive heat and sources of ignition.

11. Toxicological Information:

Routes of Exposure: Skin, eyes, ingestion and inhalation

Target Organs: Skin, eyes, upper respiratory tract

Acute Toxicity:

Product or Ingredients: No data is specifically available for this product and therefore this toxicological information is based on data available for the ingredients.

Routes of Exposure: Exposure will most likely occur through skin contact or form inhalation of mechanically or thermally generated oil mists.

Skin and Eye: This product is not a primary skin irritant after exposure of short duration.

Chronic / Other Effects: Prolonged and repeated contact with skin can cause deflating and drying of the skin resulting in skin irritation and dermatitis. Long term intensive exposure to oil mist may cause benign lung fibrosis.

The following ingredients are cited on the lists below: None

NTP CARC, NTP SUS, IARC 1, IARC 2A, IARC 2B, OSHA CARC

This material is not known to contain any chemical listed as a carcinogen or suspected carcinogen by OSHA Hazard Communication Standard 29CFR 1910.1200, IARC, or the National Toxicology Program (NTP) at a concentration greater than 0.1%.

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12. Environmental and Ecological Information

Ecotoxicity: Material is not expected to be harmful to aquatic organisms.

Mobility: Base oil component – Low solubility and float and is expected to migrate from water to the land; Expected to partition to sediment and wastewater solids.

Biodegradation: ND

13. Disposal Considerations

Waste Handling and Disposal: This product in its neat state when discarded or disposed of is not a hazardous waste according to United States Federal Regulations 40CFR 261.4 (b)(4). Dispose of product in accordance with all applicable Federal, State, Provincial and local laws and regulations. Under RCRA, it is the responsibility of the user of this product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Do not re-use empty containers

14. Transport Information

US DOT Classification Non-Bulk and Bulk: Not regulated as a hazardous material or dangerous good for transportation.

IMDG and IATA/ICAO Classification: Not regulated as a hazardous material or dangerous good for transportation.

15. Regulatory Information

US Regulations

OSHA Hazard Communication Standard: When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

WHMIS: Not a controlled product

Chemical Inventory Listing: TSCA

EPCRA: This material contains no extremely hazardous substances.

SARA (311/312) Reportable Hazard Categories: None

SARA (313) Toxic Release Inventory: This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program

TSCA: This material is in compliance with the Toxic Substances Control Act (15USC2601-2629)

US Tariff Heading Number: 2710.19.3750

Schedule B Number: 2710.19.3750

16. Other Information

For additional information call +1 314-865-4100 (outside the US and Canada) or 1-800-325-9962 inside the United States and Canada.

*Although the information and recommendations set forth herein (hereafter referred to as information) are presented in good faith and believed to be accurate and factual as of the date hereof, Schaeffer Mfg. Company makes no representation as to the completeness or accuracy thereof. Information is supplied upon the condition that the person receiving the same will make their own determination as to its safety and suitability for their purposes prior to use. In no event will Schaeffer Mfg. Company be responsible for damages of any natures whatsoever resulting from the use or reliance upon information. **No representation or warranty, either expressed or implied, of merchantability or fitness for a particular purpose is made with respect to information of the product to which the information refers. Compliance with all applicable federal, state, and local regulations remains the responsibility of the user.***