



SPECIALIZED LUBRICANTS

1. Substance/Product Identification

Product Name: 265 Glygo Torque Fluid

Company/Address: Schaeffer Mfg

102 Barton Street

Saint Louis, Missouri 63104

USA

Synonyms: Water-Glycol Fluid

Preparation/Revision Date: 4/23/2014

Product Use/Type: Petroleum base hydraulic fluid and air compressor oil

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: 265 Version 1.0

2. Hazards Identification

Appearance: Red color

Odor: Glycol Odor

Principal Hazards: Eye, skin and upper respiratory irritation

Emergency overview

WARNING: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

MAY CAUSE LIVER DAMAGE BASED ON ANIMAL DATA.

MAY CAUSE KIDNEY DAMAGE BASED ON ANIMAL DATA.

MAY CAUSE LUNG DAMAGE BASED ON ANIMAL DATA.

Avoid contact with the skin, eyes and clothing.

Avoid inhalation of mists/vapours.

Use with local exhaust ventilation.

Wear NIOSH-certified chemical goggles.

Wear chemical resistant protective gloves.

Wear protective clothing.

Potential health effects

Primary routes of exposure

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

See Section 11 for complete health hazard information

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3. Composition and Information on Ingredients

Hazardous Ingredients

Ingredient Name	CAS No.	Percentage (by wt.)
Diethylene glycol	111-46-6	40-50
Morpholine	110-91-8	<1
NJTSRN 489909-5036-EC		10-25

4. First Aid Measures

Ingestion: If swallowed, do not induce vomiting. Give the person a glass of water 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.

5. Fire Fighting Measures:

Flash Point: No data available

Autoignition: 765°F

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

Firefighting Procedures: This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus

Unusual Fire & Explosion: The substance is combustible after drying/evaporation of the non-combustible solvent fraction.

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 all applicable Federal, National, State, Provincial and local authorities and/or the United States National Response Center at (800) 424-8802 as appropriate or required

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 product. Do not inhale vapors or mists. Do not eat, drink or smoke in work areas.

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. Segregate from acids, bases and strong oxidizing agents

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8. Exposure Controls and Personal Protection

Occupational Exposure Limits

Ingredient	OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Morpholiine	70mg/m ³ (s)		20 ppm (s)	

(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: Provide local exhaust ventilation to control vapors/mists.

Personal Protective Equipment

Gloves: Nitrile or chemical 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: If user operations generate an oil mist, determine if airborne concentrations are below the OSHA Permissible Limit (PEL) of 5 mg/m³ or other applicable standards 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

9. Physical and Chemical Properties

Flash Point: Not available

pH: 9.5

Boiling Point: 102°C

Bulk Density: 1,080 kg/m³

Appearance: Red color

Odor: Glycol

Solubility in Water: Completely

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 acids, bases and oxidizers

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

Thermal Decomposition: Not determined

Conditions to Avoid: May react with oxygen and strong oxidizing agents, such as chlorates, peroxides, etc.

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11. Toxicological Information:

Ingestion: This material can directly enter the lungs, if swallowed, or if subsequently vomited. Once in the lungs it is very difficult to remove and can cause severe injury or death.

Eye Contact: Slight irritation and redness to eyes

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

Dermal Sensitization: Product may be a dermal sensitizer

Inhalation Sensitization: Not expected to be an inhalation sensitizer.

Acute toxicity:

Acute Oral Toxicity: LD50 >2,000 mg/kg (rat)

Acute Eye Irritation: Non-irritant (rabbit, OECD Guideline 405)

Acute Dermal Toxicity: non-irritant (rabbit, OECD Guideline 404)

Acute toxicity:

- *Information on: Diethylene glycol*

Acute ingestion overexposures to large doses of diethylene glycol (DEG) may produce nausea, vomiting, gastrointestinal cramping, CNS effects, diarrhea, liver necrosis, renal tubular degeneration and even death.

- *Information on: Morpholine*

Acute overexposure to morpholine vapors results in respiratory irritation and transient eye irritation. Temporary foggy vision has been reported. Morpholine caused tearing of the eyes, increased saliva, and tremors in rats and rabbits at lethal doses.

Repeated dose toxicity:

- *Information on: Diethylene glycol*

Chronic overexposures via ingestion may produce liver and kidney damage. DEG has been known to produce reproductive toxicity in experimental animals at very high gavage doses.

- *Information on: Morpholine*

At sublethal doses, morpholine caused tearing of the eyes, irritation and inactivity. Repeated skin applications with morpholine caused skin, liver, and kidney injury in rabbits. Rats and guinea pigs exposed to 18,000 ppm morpholine exhibited eye and respiratory irritation. Repeated exposures caused lung, liver and kidney injury. In a 13-week inhalation study with rats morpholine caused nasal lesions at 100 and 250 ppm; no effects were seen at 25 ppm. In an industry sponsored study, morpholine was not carcinogenic to rats at 10, 50 or 100 ppm; but did cause ophthalmic and nasal lesions.

Medical conditions aggravated by overexposure:

Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product.

12. Environmental and Ecological Information

Ecotoxicity

Acute and prolonged toxicity to fish:

Static sunfish, bluegill/LC50 (96 h): > 1,000 mg/l

Acute toxicity to aquatic invertebrates:

Daphnia magna/EC50 (24 h): > 1,000 mg/l (Literature data.)

Toxicity to aquatic plants:

EC10 (72 h): > 100 mg/l (Literature data.)

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12. Environmental and Ecological Information Continued

Toxicity to microorganisms:

bacterium/EC10 (16 h): 8,000 mg/l

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Other ecotoxicological advice:

Do not release untreated into natural waters.

The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

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, National, State, Provincial and local laws and regulations. Under United States RCRA regulations, 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/CAO Classification: Not regulated as a hazardous material or dangerous good for transportation

15. Regulatory Information

Hazard Symbols

GHS



US Regulations

TSCA Inventory: All of the components in this material are on the US TSCA Inventory or are exempt.

State of California Proposition 65: This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm.

US EPA SARA Title III and CERCLA Listings and Reportable Quantities

US EPA Section 311/313 Classifications: Acute

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15. Regulatory Information

State RTK

CAS Number

111-46-6

110-91-8

Chemical Name

Diethylene glycol

morpholine

State RTK

PA

MA, NJ, PA

US Tariff Heading Number: 3403.19.0000

Schedule B Number: 3403.19.0000

16. Other Information

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

Health: 1

Fire: 1

Reactivity: 0

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

Health: 1

Fire: 1

Reactivity: 0

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.***