



# Soluble Oil

## Material Safety Data Sheet

### 1. Product and Company Identification

**Product Name:** Soluble Oil

**MSDS Number:** 778690

**Intended Use:** Metalworking Fluid

**Manufacturer/Supplier:** ConocoPhillips Lubricants  
600 N. Dairy Ashford, 2W900  
Houston, Texas 77079-1175

**Emergency Health and Safety Number:** Chemtrec: 800-424-9300 (24 Hours)

**Customer Service:** U.S.: 800-822-6457 or International: +1-83-2486-3363

**Technical Information:** 800-766-0050

**MSDS Information:** Internet: <http://w3.conocophillips.com/NetMSDS/>

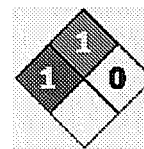
### 2. Hazards Identification

#### Emergency Overview

#### NFPA

#### **WARNING!**

Eye and Skin Irritant



**Appearance:** Dark amber

**Physical Form:** Liquid

**Odor:** Petroleum

#### **Potential Health Effects**

**Eye:** Eye irritant. Contact may cause stinging, watering, redness, and swelling.

**Skin:** Mild to moderate skin irritant. Contact may cause redness, itching, a burning sensation, and skin damage. Prolonged or repeated contact may cause drying and cracking of the skin, dermatitis (inflammation), burns, and severe skin damage. No information available on skin absorption.

**Inhalation (Breathing):** No information available on acute toxicity.

**Ingestion (Swallowing):** Low to moderate degree of toxicity by ingestion.

**Signs and Symptoms:** Effects of overexposure may include irritation of the digestive tract, nausea and diarrhea. Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation. Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.

**Pre-Existing Medical Conditions:** Conditions which may be aggravated by exposure include skin disorders and eye disorders.

See Section 11 for additional Toxicity Information.

## 6. Accidental Release Measures

**Personal Precautions:** This material may burn, but will not ignite readily. Keep all sources of ignition away from spill/release. The use of explosion-proof electrical equipment is recommended. Stay upwind and away from spill/release. Notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

**Environmental Precautions:** Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Use water sparingly to minimize environmental contamination and reduce disposal requirements. Spills into or upon navigable waters, the contiguous zone, or adjoining shorelines that cause a sheen or discoloration on the surface of the water, may require notification of the National Response Center (phone number 800-424-8802).

**Methods for Containment and Clean-Up:** Notify relevant authorities in accordance with all applicable regulations. Immediate cleanup of any spill is recommended. Dike far ahead of spill for later recovery or disposal. Absorb spill with inert material such as sand or vermiculite, and place in suitable container for disposal.

## 7. Handling and Storage

**Precautions for safe handling:** Use good personal hygiene practices and wear appropriate personal protective equipment. Wear eye/face protection. Wear protective gloves. Wash thoroughly after handling.

Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. Do not wear contaminated clothing or shoes.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANSI Z49.1, and other references pertaining to cleaning, repairing, welding, or other contemplated operations.

**Conditions for safe storage:** Use and store this material in cool, dry, well-ventilated area away from heat and all sources of ignition. Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage. Keep container(s) tightly closed.

## 8. Exposure Controls / Personal Protection

Component	US-ACGIH	OSHA	Other
Hydrotreated Distillate, Heavy Naphthenic ..C20-50	TWA: 5mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup> (as Oil Mist, if Generated)	TWA: 5 mg/m <sup>3</sup> (as Oil Mist, if Generated)	---
Hexylene Glycol	Ceiling: 25 ppm	---	---
Sodium Petroleum Sulfonate	TWA: 5mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup> (as Oil Mist, if Generated)	TWA: 5 mg/m <sup>3</sup> as Oil Mist, if Generated	---

**Note:** State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

**Engineering controls:** If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional engineering controls may be required.

**Eye/Face Protection:** The use of eye protection (such as splash goggles) that meets or exceeds ANSI Z.87.1 is recommended when there is potential liquid contact to the eye. Depending on conditions of use, a face shield may be necessary.

**Skin/Hand Protection:** The use of gloves impervious to the specific material handled is advised to prevent skin contact. Users should check with manufacturers to confirm the breakthrough performance of their products. Suggested protective materials: Nitrile

## 11. Toxicological Information

### Chronic Data:

A mortality study sponsored by General Motors and the United Auto Workers suggested a link between cutting oils or machining fluids and various forms of cancer (e.g., esophageal, laryngeal, and rectal). The study evaluated workplace exposures from 1940-1984. Since the composition of these materials has changed substantially since 1940, and because the most notable effects were seen among those with work histories dating back to that time, the relevance of these findings to present-day exposures is uncertain. Cutting oils or machining fluids have not been identified as carcinogens by NTP, IARC, or OSHA.

### Hydrotreated Distillate, Heavy Naphthenic ..C20-50

**Carcinogenicity:** The petroleum base oils contained in this product have been highly refined by a variety of processes including severe hydrocracking/hydroprocessing to reduce aromatics and improve performance characteristics. All of the oils meet the IP-346 criteria of less than 3 percent PAH's and are not considered carcinogens by NTP, IARC, or OSHA.

**Target Organs:** Administration of certain mineral oils in the diet to Fischer 344 rats at 1500 mg/kg/day for 90 days resulted in the formation of microgranulomas in the liver. However, this response was not observed in studies conducted with other rat strains or dogs. Microgranulomas like those observed in the Fischer 344 rat studies have not been observed in humans.

### Hexylene Glycol

**Reproductive:** Exposure to hexylene glycol during pregnancy has demonstrated limited evidence of developmental toxicity in laboratory animals. Increased skeletal variations were seen in oral studies, but only at doses that were toxic to the mother. No fetal toxicity was seen at doses that were not maternally toxic.

Component	Oral LD50	Dermal LD50	Inhalation LC50
Hydrotreated Distillate, Heavy Naphthenic ..C20-50	>5 mg/kg (rat)	>2 g/kg (rabbit)	No data
Hexylene Glycol	3.7-4.79 g/kg (rat)	>2 to 12.3 g/kg (rabbit)	No data
Sodium Petroleum Sulfonate	No data	No data	No data

## 12. Ecological Information

Ecological Information: Not evaluated.

## 13. Disposal Considerations

The generator of a waste is always responsible for making proper hazardous waste determinations and needs to consider state and local requirements in addition to federal regulations.

This material, if discarded as produced, would not be a federally regulated RCRA "listed" hazardous waste and is not believed to exhibit characteristics of hazardous waste. See Sections 7 and 8 for information on handling, storage and personal protection and Section 9 for physical/chemical properties. It is possible that the material as produced contains constituents which are not required to be listed in the MSDS but could affect the hazardous waste determination. Additionally, use which results in chemical or physical change of this material could subject it to regulation as a hazardous waste.

This material under most intended uses would become "Used Oil" due to contamination by physical or chemical impurities. Whenever possible, Recycle Used Oil in accordance with applicable federal and state or local regulations. Container contents should be completely used and containers should be emptied prior to discard.

## 14. Transportation Information

### U.S. Department of Transportation (DOT)

Shipping Description:

*Not regulated*

Note:

*If shipped by land in a packaging having a capacity of 3,500 gallons or more, the provisions of 49 CFR, Part 130 apply. (Contains oil)*

### International Maritime Dangerous Goods (IMDG)

Shipping Description:

*Not regulated*

Note:

*U.S. DOT compliance requirements may apply. See 49 CFR 171.22, 23 & 25.*

### International Civil Aviation Org. / International Air Transport Assoc. (ICAO/IATA)

UN/ID #:

*Not regulated*

Note:

*U.S. DOT compliance requirements may apply. See 49 CFR 171.22, 23 & 24.*

**Disclaimer of Expressed and implied Warranties:**

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Dear Customer,

Enclosed is the Material Data Safety Sheet (MSDS) related to your recent product purchase.

For the MSDS to serve its purpose it must be forwarded to all locations where the product is used, handled, resold, or stored. In addition, the MSDS should be forwarded to all individuals involved with the design, implementation, and/or control of operations involving the product. Note also that if you resell, repackage, or otherwise distribute the purchased product(s) and the product is hazardous, it is your responsibility to provide the MSDS to your customers.

MSDSs are provided to current customers with the initial purchase of a product and whenever it is revised to reflect new health or safety information. If you currently have copies of this MSDS, please check the issue date of your present copies against the date of the attached MSDS and substitute any outdated copies.

For products containing SARA Section 313 substances, an MSDS is sent to all customers with their first order of the calendar year to comply with the supplier notification provisions of the Superfund Amendment and Reauthorization Act.

In accordance with US EPA rules, should any of your employees allege or exhibit any new adverse health or environmental effects related specifically to the product, please advise us in writing of the circumstances of the allegation according to TSCA, Section 8c.

If you are not the correct recipient of this MSDS, if you need to change your company contact information for receiving MSDSs, or you need additional information about our products, please notify the group identified in the return address field. You can also call the Product Safety Help desk at (800) 762-0942 or email us at [msds@conocophillips.com](mailto:msds@conocophillips.com).

We appreciate your continued business.

Enclosure