



SAFETY DATA SHEET

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Revision Number: 3

1. COMPANY AND PRODUCT IDENTIFICATION

Product identifier

Product Name: QUINTOLUBRIC® 888-46
Product code: 014113-13

Other means of identification

Synonyms No information available

Application

Recommended Use Fire-Resistant Hydraulic Fluid
Uses advised against For industrial use only

Supplier/Manufacturer:

Supplier:
Quaker Chemical Corporation
Quaker Park One
901 Hector Street
Conshohocken, PA 19428
610-832-4000
E-mail: she@quakerchem.com

Emergency telephone number:

* 24 HOUR TRANSPORTATION:
**CHEMTREC: 1-800-424-9300
+703-527-3887 (Call collect outside of US)
* 24 HOUR EMERGENCY HEALTH & SAFETY:
**QUAKER CHEMICAL CORPORATION: (800) 523-7010
(Within US only) Outside of US call (703) 527-3887

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is not classified under the Globally Harmonized System

Label Elements

Emergency Overview

Appearance Clear Light amber

Physical State Liquid

Odor Mild Ester-like

Hazards not otherwise classified (HNOC)

None known

Other Information

None known.

Unknown acute toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No	Weight %
Antioxidant	Proprietary	<1%
Antioxidant	Proprietary	<1%

The exact percentage (concentration) of composition has been withheld as a trade secret. If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

General advice:	Show this safety data sheet to the doctor in attendance Wash off with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. If symptoms persist, call a physician
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
Skin contact:	Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. Rinse immediately with plenty of water for at least 15 minutes.
Ingestion:	If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person
Inhalation:	Move to fresh air in case of accidental inhalation of vapors. If not breathing, give artificial respiration If breathing is difficult, give oxygen Consult a physician.
Note to physician:	Treat symptomatically.
Medical condition aggravated by exposure:	Dermatitis.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Use dry chemical, CO2, water spray or `alcohol` foam.
Specific hazards:	Do not allow material to contaminate ground water system.
Special protective equipment for fire-fighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
Specific methods:	Water mist may be used to cool closed containers

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapour/dust. Wash thoroughly after handling.
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Environmental precautions: Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling

Technical measures/precautions: Provide sufficient air exchange and/or exhaust in work rooms.

Safe handling advice: Do not breathe vapors or spray mist. In case of insufficient ventilation, wear suitable respiratory equipment. Wear personal protective equipment. Avoid contact with skin and eyes. Wash thoroughly after handling.

Storage

Technical measures/storage conditions: Store at room temperature in the original container.

Incompatible products: No special restrictions on storage with other products

Safe storage temperature: 40 - 100 ° F

Shelf life: 2 years

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation

Personal Protective Equipment:

General: Eye Wash and Safety Shower

Respiratory protection: If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, a NIOSH-certified respirator with organic vapor/P100 filter should be worn.

Eye protection: Safety glasses with side-shields

Hand protection: Neoprene gloves

Skin and body protection: Long sleeved clothing

Hygiene measures: Avoid contact with skin, eyes and clothing.



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Clear Light amber
Odor	Mild Ester-like
Odor Threshold	No information available
pH concentrate:	Not applicable
pH Dilution	No information available
Melting/freezing point	No information available
Boiling Point/Range	No information available
Flash Point	> 288 °C / 550 °F
Method	No information available
Evaporation rate	No information available
Flammability Limits in Air upper flammability limit	No information available
lower flammability limit	No information available
VOC Content Product (lb/gal)	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific Gravity (g/cc, 15 C)	0.92
Bulk Density (lb/gal, 15 C)	7.68
Water Solubility	Insoluble
Solubility in other solvents	No information available
Partition coefficient: n-octanol/water	No information available
Autoignition temperature	No information available
Decomposition Temperature	No information available
Kinematic viscosity	46 mm ² /s @ 40 C
Dynamic viscosity	No information available
Molecular Weight	No information available

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Conditions to avoid: None known.

Materials to avoid: Strong oxidizing agents.

Hazardous decomposition products: Carbon oxides. Nitrogen oxides (nox). Oxides of phosphorus. Sulphur oxides.

Hazardous Polymerization: Not applicable.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation May cause irritation of respiratory tract.

Eye Contact Contact with eyes may cause irritation.

Skin Contact Prolonged contact may cause redness and irritation.

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

Components	LD50 Oral	LD50 Dermal	LC50 Inhalation
Antioxidant	> 5000 mg/kg (Rat) Oral LD50 Rat >5000 mg/kg (Source: IUCLID)	> 10 g/kg (Rabbit) Dermal LD50 Rabbit >10 g/kg (Source: NLM_CIP)	-
Antioxidant	= 700 mg/kg (Rat) Oral LD50 Rat 700 mg/kg (Source: NZ_CCID)	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

Components	IARC Carcinogens	NTP	OSHA - Select Carcinogens
Antioxidant	Not listed	Not listed	Not listed
Antioxidant	Not listed	Not listed	Not listed

Sensitization *in vitro* and *in chemico* sensitization testing data indicates that this product is not a skin sensitizer.

Mutagenic effects: No information available.

Reproductive Toxicity No information available.

Developmental Toxicity No information available.

Teratogenic No information available.

Specific target organ systemic toxicity (single exposure) No information available.

Specific target organ systemic toxicity (repeated exposure) No information available.

Aspiration hazard No information available.

Additional information on toxicological effects

Studies have been done on QUINTOLUBRIC® 888-46. Mammalian toxicity was determined to be LD50(Rat) >2000 mg/kg. Ocular and Dermal irritation studies indicate that the neat product is a dermal non-irritant and an ocular non-irritant. h-CLAT *in vitro* assay does not show a positive response in THP-1 human monocytic cells, indicating the product is not considered a potential dermal sensitizer. DPRA *in chemico* testing using cysteine and lysine containing peptides showed minimal reactivity and a negative DPRA prediction of skin sensitization.

12. ECOLOGICAL INFORMATION

Aquatic toxicity testing has been conducted on the neat composition of this product, or a similar product. Testing data indicates that it is not an acute or chronic hazard to the aquatic environment.

Product - Fish toxicity: LC50 (*Leuciscus idus* , 96 h) = 300 mg/L
Product - Daphnia Data: EC50 (*Daphnia magna STRAUS* , 48 h) = 250 mg/L
Product - Algae toxicity: ECr50 (*Leuciscus idus* , 72 h) = 50 mg/L, ECr50 (Emulsion) > 100 mg/L

Components	Ecotoxicity - Fish Species Data:	Ecotoxicity - Freshwater Algae Data:	Ecotoxicity - Water Flea Data:
Antioxidant	No data	=0.45mg/L	No data
Antioxidant	No data	No data	No data

0.3384002% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and Degradability 86.5% (28 Days).

Bioaccumulation No information available.

Components	Octanol/water partition coefficient
Antioxidant	-
Antioxidant	-

Mobility: No data available

Ozone: No data available

13. DISPOSAL CONSIDERATIONS

Waste from residues/unused products: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

Contaminated packaging: Do not re-use empty containers

Methods for cleaning up:

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust) Sweep up and shovel into suitable containers for disposal

14. TRANSPORT INFORMATION**U. S. DEPARTMENT OF TRANSPORTATION:**

Proper shipping name: Not Regulated

TDG (CANADA):

Proper shipping name: Not Regulated

IMDG/IMO:

Proper shipping name: Not Regulated

IATA/ICAO:

Proper shipping name: Not Regulated

15. REGULATORY INFORMATION**Federal Regulations****OSHA Hazard Communication Standard:**

This product is considered non-hazardous under the OSHA Hazard Communication Standard.

CERCLA/SARA Information:**SARA (311, 312) hazard class:** This product possesses the following SARA Hazard Categories:

Immediate Health (Acute): No
 Delayed Health (Chronic): No
 Flammability: No
 Pressure: No
 Reactivity: No

Components	Hazardous Substances and RQs	Extremely Hazardous Substances and TPQs	SARA 313 Emission Reporting
Antioxidant	Not listed	Not listed	Not listed
Antioxidant	Not listed	Not listed	Not listed

Clean Air and Clean Water Acts:

Components	Hazardous Air Pollutants	CWA - Hazardous Substances	CWA - Toxic Pollutants	CWA - Priority Pollutants
Antioxidant	Not listed	Not listed	Not listed	Not listed
Antioxidant	Not listed	Not listed	Not listed	Not listed

Clean Air and Water Acts: Not regulated**U.S. STATE REGULATIONS (RTK):**

Components	California Proposition 65	PARTK	MI Critical Materials	NJRTK	MARTK
Antioxidant	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Antioxidant	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

California Proposition 65 Status: May contain trace amounts of listed chemicals: 1,4-dioxane, ethylene oxide, propylene oxide

RCRA Status: Not regulated

Factory Mutual Approval FM Approval Industrial Fluid Approval Date: 07/15/2010

CANADIAN REGULATIONS:

Components	CEPA Schedule I	Challenge Substances
Antioxidant	Not listed	Not listed
Antioxidant	Not listed	Not listed

INVENTORY STATUS:

United States TSCA Inventory: This product complies with TSCA

Canada DSL/NDSL Inventory List This product complies with DSL

16. OTHER INFORMATION

Sources of key data used to compile Material safety data sheets of the ingredients.
the data sheet:

Prepared by: Quaker Chemical Corporation -Safety, Health and Environmental Affairs Group - US

Revision Date: 01/08/2016

Reason for revision: This data sheet contains changes from the previous version in section(s) Classification Change based on Testing Data (sensitization).

Personal protection recommendations should be reviewed by purchasers. Workplace conditions are important factors in specifying adequate protection.

Disclaimer

This product's safety information is provided to assist our customers in assessing compliance with safety/health/environmental regulations. The information contained herein is based on data available to us and is believed to be accurate. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or the hazards connected with the use of the product. Since the use of this product is within the exclusive control of the user, it is the user's obligation to determine the conditions for safe use of the product. Such conditions should comply with all regulations concerning the product. The company referenced in this Safety Data Sheet assumes no liability for any injury or damage, direct or consequential, resulting from the use of this product unless such injury or damage is attributable to the gross negligence of such company.

End of Safety Data Sheet