

# SAFETY DATA SHEET

## 1. Identification of the hazardous chemical and of the supplier

**Product identifier:** DAIDO SOL QUENCH DS

**Other means of identification:** No data available.

**Recommended use of the chemical and restrictions on use**

**Recommended use:** Metalworking fluid

**Recommended restrictions:** Industrial use only

**Manufacturer/Importer/Distributor Information**

### Manufacturer

Company Name: Fuchs Lubricants Co.  
Address: 17050 Lathrop Avenue  
Harvey, Illinois 60426  
Telephone: 708-333-8900  
Fax: 708-333-9180

Contact Person: EHS Department  
E-mail: sds@fuchs.com

**Emergency telephone number:** 708-333-8900 (Bus. hrs) 800-255-3924 (24 hrs)

## 2. Hazard(s) identification

### Hazard Classification

#### Health Hazards

Toxic to reproduction Category 2

#### Unknown toxicity - Health

Acute toxicity, oral	2.35 %
Acute toxicity, dermal	2.35 %
Acute toxicity, inhalation, vapor	34.63 %
Acute toxicity, inhalation, dust or mist	34.64 %

### Environmental Hazards

Acute hazards to the aquatic environment Category 3

#### Unknown toxicity - Environment

Acute hazards to the aquatic environment	69.14 %
Chronic hazards to the aquatic environment	100 %

## Label Elements

### Hazard Symbol:



### Signal Word:

Warning

### Hazard Statement:

H361: Suspected of damaging fertility or the unborn child.  
H402: Harmful to aquatic life.

### Precautionary Statements

#### Prevention:

P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

#### Response:

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

#### Storage:

P405: Store locked up.

#### Disposal:

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

## 3. Composition/information on ingredients

### Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Oxirane, 2-methyl-, polymer with oxirane	Trade Secret	15 - 40%
Triethanolamine	Trade Secret	1 - 5%
Inorganic borate	Trade Secret	1 - 5%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First-aid measures

### Inhalation:

Move to fresh air. Call a POISON CENTER/doctor if you feel unwell.

**Skin Contact:** Remove contaminated clothing and shoes. Wash contact areas with soap and water. If skin irritation occurs: Get medical advice/attention. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water.

**Eye contact:** Flush thoroughly with water. If irritation occurs, get medical assistance. Continue to rinse for at least 15 minutes.

**Ingestion:** Rinse mouth thoroughly. Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting.

**Most important symptoms/effects, acute and delayed**

**Symptoms:** No data available.

**Hazards:** No data available.

**Indication of immediate medical attention and special treatment needed**

**Treatment:** Get medical attention if symptoms occur.

## 5. Fire-fighting measures

**General Fire Hazards:** No unusual fire or explosion hazards noted.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Water spray, fog, CO<sub>2</sub>, dry chemical, or regular foam. Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:** Heat may cause the containers to explode. During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

<b>For non-emergency personnel:</b>	No data available.
<b>For emergency responders:</b>	No data available.
<b>Methods and material for containment and cleaning up:</b>	Absorb with sand or other inert absorbent. Stop the flow of material, if this is without risk.
<b>Environmental Precautions:</b>	Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

## 7. Handling and storage

<b>Precautions for safe handling:</b>	<p>End-users should follow industry best practices for handling and using this product.</p> <p>Guidance may be found using the current version of ASTM Standard E1497-05: Standard Practice for Selection and Safe Use of Water-Miscible and Straight Oil Metal Removal Fluids Observe good industrial hygiene practices. Contains amines. Do not add sodium nitrite or other nitrosating agents which may form cancer causing nitrosamines. Contains a component that when heated at or above 300F (150C) may generate Formaldehyde vapors. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling.</p>
<b>Conditions for safe storage, including any incompatibilities:</b>	Store locked up.

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Triethanolamine	VLE-PPT	5 mg/m <sup>3</sup>	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control) (04 2014)

<b>Appropriate Engineering Controls</b>	No data available.
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### Individual protection measures, such as personal protective equipment

<b>General information:</b>	Use personal protective equipment as required.
<b>Eye/face protection:</b>	Wear safety glasses with side shields (or goggles).
<b>Skin Protection</b>	
<b>Hand Protection:</b>	No data available.

<b>Other:</b>	Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.
<b>Respiratory Protection:</b>	In case of inadequate ventilation use suitable respirator. Seek advice from supervisor on the company's respiratory protection standards.
<b>Hygiene measures:</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

## 9. Physical and chemical properties

### Appearance

<b>Physical state:</b>	liquid
<b>Form:</b>	No data available.
<b>Color:</b>	Light yellow

**Odor:** Mild

**Odor threshold:** No data available.

**pH:** No data available.

**Melting point/freezing point:** No data available.

**Initial boiling point and boiling range:** No data available.

**Flash Point:** Not applicable

**Evaporation rate:** No data available.

**Flammability (solid, gas):** No data available.

### Upper/lower limit on flammability or explosive limits

**Flammability limit - upper (%):** No data available.

**Flammability limit - lower (%):** No data available.

**Explosive limit - upper (%):** No data available.

**Explosive limit - lower (%):** No data available.

**Vapor pressure:** No data available.

**Vapor density:** No data available.

**Density:** No data available.

**Relative density:** 1.05

### Solubility(ies)

**Solubility in water:** Soluble

**Solubility (other):** No data available.

**Partition coefficient (n-octanol/water):** No data available.

**Auto-ignition temperature:** No data available.

**Decomposition temperature:** No data available.

**Viscosity:** No data available.

### Other information

**VOC:** 18.80 g/l

## 10. Stability and reactivity

<b>Reactivity:</b>	Not reactive during normal use.
<b>Chemical Stability:</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	None under normal conditions.
<b>Conditions to avoid:</b>	Avoid heat or contamination.
<b>Incompatible Materials:</b>	No data available.
<b>Hazardous Decomposition Products:</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. formaldehyde

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation:</b>	Inhalation is the primary route of exposure. In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
<b>Skin Contact:</b>	May cause an allergic skin reaction.
<b>Eye contact:</b>	Eye contact is possible and should be avoided.
<b>Ingestion:</b>	May be ingested by accident. Ingestion may cause irritation and malaise.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.
<b>Ingestion:</b>	No data available.

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

<b>Oral Product:</b>	ATEmix (): > 5000 mg/kg
<b>Dermal Product:</b>	ATEmix (): > 5000 mg/kg
<b>Inhalation Product:</b>	Not classified for acute toxicity based on available data.

**Specified substance(s):**

Oxirane, 2-methyl-,  
polymer with oxirane

LC 50 (Rat): 5.2 mg/l

**Repeated dose toxicity**

**Product:** No data available.

**Skin Corrosion/Irritation**

**Product:** No data available.

**Specified substance(s):**

Triethanolamine

in vivo (Rabbit): Not irritant Experimental result, Key study

**Serious Eye Damage/Eye Irritation**

**Product:** No data available.

**Respiratory or Skin Sensitization**

**Product:** No data available.

**Carcinogenicity**

**Product:** No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**In vivo**

**Product:** No data available.

**Reproductive toxicity**

**Product:** Suspected of damaging fertility or the unborn child.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Aspiration Hazard**

**Product:** No data available.

**Other effects:**

No data available.

## 12. Ecological information

### Ecotoxicity:

#### Acute hazards to the aquatic environment:

##### Fish

**Product:** No data available.

##### Specified substance(s):

Oxirane, 2-methyl-,  
polymer with oxirane LC 50 (Fish, 96 h): > 100 mg/l  
LC 50 (Oncorhynchus mykiss, 96 h): > 46.4 mg/l

Triethanolamine LC 50 (Rainbow Trout, 4 d): 11,800 mg/l  
LC 50 (Fish, 96 h): > 100 mg/l  
LC 50 (Lepomis macrochirus, 96 h): 450 mg/l

##### Aquatic Invertebrates

**Product:** No data available.

##### Specified substance(s):

Oxirane, 2-methyl-,  
polymer with oxirane EC50 (Water Flea, 48 h): 97,000 mg/l  
EC50 (Daphnia, 48 h): > 100 mg/l

Triethanolamine EC50 (Daphnia, 21 d): > 16 mg/l  
EC50 (Daphnia, 48 h): 609.9 mg/l  
EC50 (Daphnia, 24 h): 1,386 mg/l

#### Chronic hazards to the aquatic environment:

##### Fish

**Product:** No data available.

##### Aquatic Invertebrates

**Product:** No data available.

##### Toxicity to Aquatic Plants

**Product:** No data available.

##### Specified substance(s):

Oxirane, 2-methyl-,  
polymer with oxirane EC50 (Green algae (Scenedesmus dimorphus), 72 h): > 100 mg/l

Triethanolamine EC50 (Alga, 72 h): 216 mg/l  
EC50 (Alga, 96 h): 169 mg/l

### Persistence and Degradability

##### Biodegradation

**Product:** No data available.



#### BOD/COD Ratio

**Product:** No data available.

#### Bioaccumulative potential

##### Bioconcentration Factor (BCF)

**Product:** No data available.

#### Partition Coefficient n-octanol / water (log Kow)

**Product:** No data available.

##### Specified substance(s):

Triethanolamine Log Kow: -1.75 - -1.32 No Estimated by calculation, Weight of Evidence study

**Mobility in soil:** No data available.

#### Known or predicted distribution to environmental compartments

Oxirane, 2-methyl-, polymer with oxirane No data available.

Triethanolamine No data available.

Inorganic borate No data available.

**Other adverse effects:** Harmful to aquatic organisms.

### 13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local laws. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. It is the responsibility of the product user or owner to determine at the time of disposal, which waste regulations must be applied.

**Contaminated Packaging:** Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. Transport information

**DOT**  
Not regulated.

**IATA**  
Not regulated.

**IMDG**  
Not regulated.

### 15. Regulatory information

#### Safety, health and environmental regulations specific for the product in question

SDS\_MX - R00000450674

**Mexico. Substances subject to reporting for the pollutant release and transfer registry (PRTR)**

Not applicable

**Mexico. Federal Law for the Control of Chemical Substances Susceptible to Diversion to Manufacturing of Chemical Weapons, Appendix 1: National list of chemical substances**

Triethanolamine

Precursors Chemicals Group 3: Chemicals listed in Group 3B can be used in the production of toxic chemicals hence are prohibited from exports and returns to states not party to the convention without prior authority from the recipient state. A certificate of final use is required. See CWC, Verification Annex, Part VIII.

**Mexico. Wastewater Discharges - Maximum Limits into Coastal Waters, Dams, Rivers, Soil and Wetlands (NOM-001-ECOL)**

none

**Mexico. Hazardous Chemicals (NOM-028-STPS-2012, System for administration of workplace safety in the process and critical equipment for handling hazardous chemicals, Appendix A, Table A.I)**

Not applicable

**Mexico. Narcotic Drugs List (General Health Law, Articles 234 & 239, Feb. 7, 1984)**

Not applicable

**Mexico. Psychotropic Drugs (General Health Law, Feb. 7, 1984, Articles 245 & 254 Bis)**

Not applicable

**16. Other information, including date of preparation or last revision**

**Issue Date:** 06/27/2019

**Revision Information:** 06/27/2019: ARGHS\_MX

**Version #:** 1.1

**Further Information:** No data available.

**Disclaimer:** This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.