



HOUGHTON

MATERIAL SAFETY DATA SHEET

Issuing Date: 11-09-2012

Revision Date: 11-09-2012

Version 2

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name HOUGHTO-SAFE DSF

Product Code(s) 01620300-AP

Recommended use Hydraulic Fluid

Manufacturer, Importer, Supplier

Houghton (Shanghai) Specialty Industrial Fluids Co., Ltd.
No.188 Jiangtian Rd.(E) Songjiang Industrial Area Shanghai, P.R.C
ZIP code: 201613
Tel: +86-21-67742570 Fax: +86-21-67742579

Chemical Emergency Phone Number

+86-21-67742570

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

WARNING

Acute oral toxicity	Category 5
Specific target organ systemic toxicity (repeated exposure)	Category 2

Label Elements



Hazard Statements

H303 - May be harmful if swallowed

H373 - May cause damage to organs through prolonged or repeated exposure if swallowed

Precautionary Statements

P312 - Call a POISON CENTER or doctor/ physician if you feel unwell

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P314 - Get medical advice/ attention if you feel unwell

P501 - Dispose of contents/ container to an approved waste disposal plant

Other hazards

None known

Fire-fighting Measures

Standard procedure for chemical fires

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Advice for non-emergency personnel Material can create slippery conditions

Advice for emergency responders For personal protection see section 8

Environmental precautions

Do not flush into surface water or sanitary sewer system, Prevent product from entering drains, Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dike to collect large liquid spills.

Prevention of secondary hazards

Avoid breathing dust/fume/gas/mist/vapors/spray.

Reference to other sections

See Section 8/12/13 for additional information

7. HANDLING AND STORAGE

Precautions for safe handling

Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Do not ingest. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities**Technical measures/Storage conditions**

Keep container tightly closed in a dry and well-ventilated place

Incompatible Materials

None in particular

Specific end uses

Specific use(s) Hydraulic Fluid.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures

Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment

Eye/Face Protection	Safety glasses with side-shields.
Skin and body protection	Wear protective gloves/clothing.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene measures Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state @20°C	liquid	Appearance	Red
Odor	No information available	Odor Threshold	Not applicable

<u>Property</u>	<u>Values</u>	<u>Note</u>
pH	9.7	
Melting/freezing point	Not applicable	
Boiling point/boiling range	Not applicable	
Flash Point	No information available	
Evaporation rate	Not applicable	
Flammability (solid, gas)	No information available	
Flammability Limits in Air		
upper flammability limit	Not applicable	
lower flammability limit	Not applicable	
Vapor pressure	Not applicable	
Vapor density	Not applicable	
Relative density	Not applicable	
Water Solubility	No information available	
Solubility in other solvents	No information available	
Partition coefficient: n-octanol/water	Not applicable	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Viscosity, kinematic	40 cSt @ 40 °C	
Explosive properties	Not applicable	
Oxidizing Properties	Not applicable	

Other information

10. STABILITY AND REACTIVITY

Reactivity

None under normal use conditions

Chemical stability

Stable under normal conditions

Possibility of hazardous reactions

None under normal use conditions

Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition

Incompatible Materials

None in particular

Hazardous decomposition products

None under normal use conditions

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Product Information	May be harmful if swallowed.
Acute toxicity	
Inhalation	No known effect; LC50>5mg/l/4h (rat)
Skin contact	No known effect; LD50>2000 mg/kg (rat)
Ingestion	May be harmful if swallowed: May cause adverse liver effects, May cause adverse kidney effects

Component Information

No information available.

Chemical Name	LD50 Oral (Rat)	LD50 Dermal (Rat/Rabbit)	LC50 Inhalation
2,2'-oxydiethanol	1120 mg/kg (Rat)	11890 mg/kg (Rabbit)	-

Skin corrosion/irritation	No known effect
Serious eye damage/eye irritation	No known effect
Sensitization	
Respiratory Sensitization	No known effect
Skin sensitization	No known effect
Carcinogenicity	No known effect
Mutagenicity	No known effect
Toxicity to Reproduction	No known effect.
Aspiration hazard	No known effect

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated

Mobility Will likely be mobile in the environment due to its water solubility.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues / Unused Products Dispose of in accordance with local regulations

Special risks and unsuitable means when handling product waste/waste packaging None

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal

14. TRANSPORT INFORMATION

<u>China</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated
<u>ICAO</u>	Not regulated
<u>ICAO/IATA</u>	Not regulated
<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated
<u>RID</u>	Not regulated
<u>ADR/RID</u>	Not regulated
<u>ADN</u>	Not regulated

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

China

- Take notice of labels and material safety data sheets for the working chemicals
- Ensure provisions are made in accordance with the Chemical Dangerous Goods Safety Management Regulations (December 1, 2011 the State Council), the chemical Dangerous Goods Safety Management Regulations implementing rules, the workplace safe use of chemicals, and other regulations for the safe use of hazardous chemicals, production, storage, transport, handling, etc
- Dispose of waste in accordance with environmental legislation.

16. OTHER INFORMATION

Issuing Date: 11-09-2012
Revision Date: 11-09-2012
Revision Note No information available.

Disclaimer

Information herein is given in good faith as authoritative and valid: however, no warranty, express or implied, can be made.

The condition or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this reason, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use, or disposal of the product.

end