

MATERIAL SAFETY DATA SHEET

(USA)

(Complies with USA OSHA 29 CFR 1910.1200 and ANSI Z 400.1)

Version: 5 Revision date: 19 June 2010

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product code: D047

Product name: Antifoam Agent D47

Company identification: Schlumberger Technology Corporation

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2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Main physical hazards: No classified physical hazards.

Main health hazards: May be mildly irritating to eyes.

Other Information: Contaminated surfaces will be extremely slippery.

Precautions: DO NOT FREEZE.

HMIS classification: Health: 0 Flammability: 1 Physical hazard: 0

Form: Liquid Color: Colorless Odor: Faint

Principle routes of exposure: Skin contact. Eye contact.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight % - Range
Polypropylene glycol	25322-69-4	60 - 100

4. FIRST AID MEASURES

Eye contact: Rinse with water. Consult a physician if necessary.

Skin contact: Rinse with water.

Ingestion: Rinse mouth. Consult a physician if necessary. Never give anything by

mouth to an unconscious person.

Inhalation: Move to fresh air. Consult a physician if necessary.

5. FIRE-FIGHTING MEASURES

Fire hazard: Combustible material.
Flash point: 185 °C / 365 °F
Autoignition temperature: No data available.

Flammability limits in air:



Lower: No information available.

Upper: No information available.

Oxidizing properties: None.

Suitable extinguishing media:

Use dry chemical, CO2, water spray or "alcohol" foam.

Extinguishing media which must not be used for safety reasons:

None known.

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases:

None reasonably foreseeable.

Special protective equipment for firefighters:

Wear protective fire fighting clothing and avoid breathing vapors. Use self-contained breathing apparatus in closed areas.

NFPA rating:

Health: 0
Flammability: 1
Instability: 0
Special: None

6. ACCIDENTAL RELEASE MEASURES

Main physical hazards: No classified physical hazards.

Other Information: Contaminated surfaces will be extremely slippery.

Personal precautions: No special precautions required.

Methods for cleaning up: Dam up. Absorb spill with inert material (e.g. dry sand or earth), then place

in a chemical waste container.

Environmental precautions: Prevent further leakage or spillage.

7. HANDLING AND STORAGE

Handling:

Precautions: DO NOT FREEZE.

Safe handling advice: Keep away from oxidizing agents.

Technical measures/ No special storage conditions required.

storage conditions:

Packaging requirements: Steel or high density polyethylene (HDPE) container.

Incompatible products: Oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures No special technical protective measures required. **to reduce exposure:**

Hygiene measures: Exercise reasonable care and cleanliness.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. If

dust or mist is generated use NIOSH approved respirator with dust and mist

protection (3M 8210).

Eye protection: It is good practice to wear goggles when handling any chemical.

Hand protection: Impervious gloves.

Skin and body protection: Clean, body-covering clothing.



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Occupational Exposure Limits

	ACGIH - TLVs			OSHA - PELs		
Component	TWA / Ceiling	STEL	ACGIH - Skin	TWA / C	STEL	Final PELs - Skin
Polypropylene glycol	-	-	-	-	-	-

Particles Not Otherwise Regulated/Specified [PNOR or PNOS] (insoluble or poorly soluble):

- OSHA PEL's for Inert or Nuisance Dust are covered by PNOR limits: respirable fraction: 5 mg/m³; total dust 15 mg/m³. ACGIH PNOS Recommendations: airborne concentrations should be kept below 3 mg/m³, respirable particulate, and 10 mg/m³, inhalable particles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical characterization: Organic compound.
Fire hazard: Organic compound.
Combustible material.

Form: Liquid
Color: Colorless
Odor: Faint

Odor threshold: Not applicable.

pH: 8.5

pH concentration: 100 g/l
Boiling point/range: Decomposes
Flash point: 185 °C / 365 °F

Flammability limits in air:

Lower: No information available.

Upper: No information available.

Bulk density: Not applicable. **Melting point/range:** >-45 °C / -49 °F **Decomposition temperature:** > 242 °C / 468 °F

Solubility:

Water solubility: Soluble.

Fat solubility: No information available. **Partition coefficient** See also SECTION 12

(n-octanol/water):

Relative density: 1.0 (@ 20°C) Vapor pressure: Negligible Vapor density: > 1 (air = 1)

Viscosity: ~ 1000 mPa.s (@ 20 °C)

Evaporation rate: No data available.

% Volatile (VOC): > 90

10. STABILITY AND REACTIVITY

Stability:

Stable under recommended storage conditions.

Conditions to avoid:

None known.

Incompatibility with other substances:

Oxidizers.

Hazardous decomposition products:

When heated strongly or burned, oxides of carbon and harmful organic chemical fumes are released.



Hazardous polymerization:

Hazardous polymerization does not occur.

Other Information:

Contaminated surfaces will be extremely slippery.

11. TOXICOLOGICAL INFORMATION

PRODUCT TOXICOLOGICAL INFORMATION

Acute Health Hazard

Eye contact: May be mildly irritating.

Skin contact: No effect expected. Prolonged or repeated contact may cause mild

irritation.

Ingestion: Accidental ingestion of small amounts is not expected to cause adverse

effects. Swallowing large amounts may be harmful.

Inhalation: No effect expected. Prolonged or repeated exposure may cause mild

irritation.

Sensitization - lung: Not known to cause allergic reaction. **Sensitization - skin:** Not known to cause allergic reaction.

Toxicologically synergistic None known.

products:

Chronic Health Hazard

Carcinogenic effects: None known.

Mutagenic effects: Not known to cause heritable genetic damage.

Teratogenic effects: Not known to cause birth defects or have a deleterious effect on a

developing fetus.

Reproductive toxicity: Not known to adversely affect reproductive functions and organs.

Target organ effects: None known.

COMPONENT TOXICOLOGICAL INFORMATION

Component	Target Organ Effects	LD50 / LC50
Polypropylene alycol	-	> 2 g/kg (Oral LD50; Rat)

Component	IARC Group 1 or 2:	ACGIH -	OSHA Listed	NTP:
		Carcinogens:	Carcinogens	
Polypropylene glycol	-	,	,	-

12. ECOLOGICAL INFORMATION

PRODUCT INFORMATION

Persistance / Degradability: Not inherently biodegradable.

Bioaccumulation potential: May bioaccumulate.



COMPONENT INFORMATION

Polypropylene glycol

Bioaccumulation: $\log Pow = >4.6$

Persistence / degradability: Not biodegradable. 7.2 %. (28d; OECD306).

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Dispose of by injection or other acceptable method in accordance with local regulations.

Contaminated packaging:

Dispose of in accordance with local regulations. If reusable containers are used, send them back to the product supplier, after the required rinsing.

EPA RCRA Hazardous Waste Code:

None

14. TRANSPORT INFORMATION

DOT:

CERCLA RQ: None

Hazard class: Not regulated.

Proper shipping name: Not regulated
Label(s): None required.

IMDG/IMO

Shipping name: Not regulated.

UN number: None

ICAO/IATA

Shipping name: Not regulated.

UN number: None

TDG (Canada):

Shipping name: Not regulated.

PIN: None

Note 1:

For the applicable placard selection refer to the appropriate transport regulations; the selection may vary depending on the cargo size and categories of other hazardous materials in the cargo.

15. REGULATORY INFORMATION

International Chemical Inventories

USA, Toxic Substances Control This product complies with TSCA requirements. **Act inventory (TSCA):**



Canada, Domestic Substance

This product complies with DSL requirements.

List (DSL):

U.S.A. Regulations

OSHA Hazard Communication Standard:

(Complies with USA OSHA 29 CFR 1910.1200 and ANSI Z 400.1)

EPA RCRA Hazardous Waste Code:

None

EPA, Sections 311 and 312 - Material Safety Data Sheet Requirements (40 CFR 370):

Immediate (Acute) Health Hazard:NoneDelayed (Chronic) Health Hazard:NoneFire Hazard:NoneSudden Release or Pressure Hazard:NoneReactive Hazard:None

EPA, Sections 313 - List of Toxic Chemicals (40 CFR 372):

This product contains the following substance(s), which appear(s) on the List of Toxic Chemicals:

Additional Regulatory Information

Polypropylene glycol

EPA, CERCLA Section 102a/103 Hazardous Substances (40 CFR 302.4): None

CERCLA/SARA - Hazardous Substances and their RQs: None

EPA, SARA TITLE III Section 304, Extremely Hazardous Substances (40 CFR 355.40): None

California Proposition 65: None

International Hazard Class

WHMIS Hazard Class:

Non-controlled product.

16. OTHER INFORMATION

Current references:

- 1. Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices. American Conference of Governmental Industrial Hygienists, Cincinnati OH.
- 2. IARC Monograms on the Evaluation of the Carcinogenic Risk of Chemicals to Man. World Health Organization, International Agency for Research on Cancer. Geneva, Switzerland.
- 3. Annual Report on Carcinogens. National Toxicology Program. *U.S. Department of Heath and Human Services, Public Health Service.*
- 4. NIOSH Registry of Toxic Effects of Chemical Substances (RTECS). *National Institute for Occupational safety and Health. Cincinnati, OH.*
- 5. LOLI Database.



Explanation of terms:

ACGIH: American Conference of Governmental Industrial Hygienist

ACGIH-TL: Threshold Limit Value DSL: Domestic Substance List

HMIRC: Hazardous Materials Information Review Commission

IARC: International Agency for Research on Cancer

NTP: National Toxicology Program

NIOSH: National Institute of Occupational Safety & Health

NIOSH-REL: Recommended Exposure Limit

OSHA: Occupational Safety & Health Administration

OSHA-PEL: Permissible Exposure Limit

TSCA: Toxic Substance Control Act (Inventory)

Occupational Exposure Limits indicators: TWA - Time Weighted Average; STEL - Short Term Limit; C - Ceiling Limit; units: [mg/m³]

ACGIH Notations:

"Skin" refers to the potential significant contribution to the overall exposure by the cutaneous route, including mucous membranes and the eyes, either by contact with vapors or by direct skin contact with the substance. "A" notation indicates carcinogenicity as follows:

ACGIH classification: A1 - Confirmed Human Carcinogen; A2 - Suspected Human Carcinogen; A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans; A4 - Not Classifiable as a Human Carcinogen; A5 - Not suspected as a Human Carcinogen.

"SEN" refers to the potential for an agent to product sensitization as confirmed by human and animal data.

Section(s) revised: 16

Prepared by: Chemical Regulatory Compliance (CRC)

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End of the Material Safety Data Sheet