

MATERIAL SAFETY DATA SHEET

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

PRODUCT CODE: **A264** Effective Date: 04-August-2001

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

Identification of the substance or preparation:

Corrosion Inhibitor A264

Company/undertaking identification: Schlumberger
110 Schlumberger Drive
Sugar Land, Texas 77478, USA

Corporate Emergency Phone: USA 1-281-595-3518

Corporate Non-Emergency Phone: USA 1-281-285-7873

2. COMPOSITION/INFORMATION ON INGREDIENTS

METHANOL; CAS 67-56-1; 15 - 40%

PROP-2-YN-1-OL; CAS 107-19-7; 5 - 10%

PROPRIETARY ORGANIC MIXTURE; CAS ; 40 - 70%

3. HAZARDS IDENTIFICATION

Emergency Overview

Form: Liquid
Color: Clear amber
Odor: Alcohol

Main environmental hazards:

Very toxic to aquatic organisms.

Main Physical Hazards

Special Precautions: None.
Physical Hazard: Flammable liquid

Main Health Hazards:

HMIS RATING: Health 3 Flammability 3 Reactivity 0

Causes eye irritation. Toxic if swallowed. Toxic: danger of very serious irreversible effects if swallowed. Harmful if inhaled. Toxic: danger of very serious irreversible effects through inhalation. May cause dizziness, nausea, vomiting, diarrhea. May cause headache, narcosis. Harmful if absorbed through the skin. Harmful if absorbed through the skin. Causes skin irritation. Toxic: danger of very serious irreversible effects in contact with skin. May cause birth defects based on animal data.

See Section 11 for a complete discussion of health hazards.

4. FIRST AID MEASURES

Eye contact: Immediately flush eyes with water for 15 minutes while holding eyelids open. Seek medical attention.

Skin contact: Immediately remove contaminated clothes and shoes. Wash with soap and water for 15 minutes. Seek medical attention.

Inhalation: Remove to fresh air. Seek medical attention at once. If breathing has stopped, begin artificial respiration.

Swallowing: If several grams are swallowed, induce vomiting with ipecac (preferred), or by giving water and sticking

Notes: finger down throat. After vomiting give milk (preferred) or water and consult physician.
None.

5. FIRE FIGHTING MEASURES

Extinguishing media: Alcohol Foam, CO2, Dry Chemical
Further Information: Vapors may travel along the ground and ignite when an ignition source is contacted. Avoid breathing vapors. Use SCBA in closed areas.
Flash point: 57°F
Method: Tag closed cup
Flammability (explosion limits in air):
Lower: 6% (Methanol) Upper: 36.5% (Methanol)
Autoflammability (auto-ignition temperature): Not determined
Explosive properties (thermal decomposition temperature): > (450°F)
NFPA Rating: Health 3 Flammability 3 Reactivity 0 Other: None
Combustion products: see Section 10.

6. ACCIDENTAL RELEASE MEASURES

After spillage/leakage: Contain with dikes. Use explosion proof equipment to recover. Remove all sources of ignition. Soak up residual on inert absorbant (sand). Put in steel or plastic drum approved for flammables. Do not allow to enter waterways.
See Section 8 for protective equipment information.
See Section 13 for disposal information.

7. HANDLING AND STORAGE

Special Precautions: Keep away from heat, sparks, and flame. Store out of direct sunlight in well ventilated area. Keep container closed when not in use. Use with adequate ventilation. Do not cut or weld on container.
Packaging requirements: Steel or high density polyethylene (HDPE) container approved for flammables.
Ventilation: Provide ventilation to keep airborne concentrations below exposure limits.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection: Use NIOSH approved respirator with organic vapor/acid gas protection (color coded yellow). Use SCBA (self contained breathing apparatus) in confined areas and for emergencies.
Eye protection: Chemical splash goggles. For spills and emergencies, also wear face shield.
Hand protection: Impervious gloves made of: Butyl Viton
Skin protection: Chemical resistant suit. Chemical resistant boots.

Exposure Limit Guidelines (mg/m3)
Components having no established limits are not listed.
(NE: Not established, ND: Not determined)

These numbers may be referred to as OEL, MAC, MAK, MEL, OES, REL, PEL, or TLV. TWA is the 8 hour time weighted average. STEL is the short term exposure limit. "C" indicates the value is a maximum concentration (ceiling).

| | METHANOL | | | PROP-2-YN-1-OL | | |
|-------------------|----------|------|-----|----------------|------|-----|
| | TWA | STEL | ANM | TWA | STEL | ANM |
| CANADA | ND | ND | | ND | ND | |
| USA: ACGIH | 262 | 328 | | 2.3 | NE | |
| USA: OSHA | 260 | 310 | | 2 | NE | |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--------------------------------------|-------------------------------------|
| Form: | Liquid |
| Color: | Clear amber |
| Odor: | Alcohol |
| pH value: | 2.9 (at 5% of product in IPA/Water) |
| Boiling point: | 152°F |
| Pour point: | -10°F |
| Vapor pressure: | 14.3 kPa |
| Relative density (specific gravity): | 0.93 (68°F) |
| Bulk Density (solids): | Not applicable |
| Solubility in water: | Dispersable |
| Viscosity: | 12.5 mPa.s (77°F) |
| Relative Vapor Density (air=1): | Not determined |
| % Volatile: | Approximately 30 |
| Nature | Inhibitor |

10. STABILITY AND REACTIVITY

| | |
|-----------------------------------|---|
| Stability: | Stable. |
| Conditions to avoid: | None. |
| Materials to avoid: | Oxidizers |
| Hazardous Polymerization: | Will not occur. |
| Dust explosion hazard (solids): | Not applicable. |
| Special hazards: | None. |
| Hazardous decomposition products: | When heated strongly or burned, oxides of carbon and harmful organic chemical fumes are released. |

11. TOXICOLOGICAL INFORMATION

| | |
|---------------|--|
| Eye contact: | Severe irritant. Causes pain and redness. Prolonged or repeated contact may cause mild burn. |
| Skin contact: | Harmful if absorbed through the skin; may cause illness. Toxic; may cause illness or death. Severe irritant; causes pain, redness, dermatitis or mild burn. Toxic: danger of very serious irreversible effects in contact with skin. |
| Inhalation: | Toxic; can cause illness or death. Toxic: danger of very serious irreversible effects through inhalation. |
| Ingestion: | Toxic; can cause illness or death. Toxic: danger of very serious irreversible effects if swallowed. |

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Carcinogenicity: Not listed by IARC, USA NTP, or USA OSHA.
Mutagenicity: Not known to cause heritable genetic damage.
Teratogenicity: Possibly causes birth defects.
Target organs which may be affected: Bladder, Blood, Brain, Kidney, Liver, Lung, Reproductive, Sense organs
Sensitization: Not known to cause allergic reaction.
Other: May cause dizziness, nausea, vomiting, diarrhea. Can cause headache, narcosis.

12. ECOLOGICAL INFORMATION

Information on product as a whole:

Main environmental hazards: Very toxic to aquatic organisms.

Degradability: Partially biodegradable.

Information on components:

CHEMICAL NAME: METHANOL

Fish Tox - Fresh Water: LC100= (24hr) 17000 Species: Creek chub (semolitus atromaculatus)

LC0=(24hr) 8000 Species: Creek chub (semolitus atromaculatus)

13. DISPOSAL CONSIDERATIONS

Product: Ship via permitted waste hauler to permitted hazardous waste disposal facility for incineration (preferred) or disposal well injection of all liquids and landfilling of solids.

Container: Incinerate (preferred) or hazardous waste landfill unless prohibited by local regulations.

USA EPA RCRA: D001

14. TRANSPORT INFORMATION

ICC Tariff Classification

ICC Item Number: ICC Class: LTL TL

CERCLA RQ: 1610 Gallons (Propargyl alcohol)

Department of Transportation (DOT)

Package Size: 0 - 1610 gals
Designation: Hazardous Material
Hazard Class: 3
Shipping Name: Flammable liquid, toxic, n.o.s. (contains Methanol and Propargyl alcohol),3, UN 1992, PG II
DOT Label: Flammable Liquid 3, Toxic 6

Package Size: > 1611 gals
Designation: Hazardous Material and Hazardous Substance
Hazard Class: 3
Shipping Name: Flammable liquid, toxic, n.o.s. (contains Methanol and Propargyl alcohol),3, UN 1992, PG II, RQ
DOT Label: Flammable Liquid 3, Toxic 6

Canadian Shipments

Shipping Name: Flammable liquid, poisonous, n.o.s. (contains Methanol and Propargyl alcohol)
Label: Flammable Liquid 3
Classification: 3, 6.1 Package Group: II PIN: UN 1992

15. REGULATORY INFORMATION

Notification/restrictions status:

USA:

All components of this material are on the USA TSCA inventory, or the components are exempt from inventory reporting.

CANADA:

All components of this material are on the Canada DSL, or the components are exempt from inventory reporting.

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of USA Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372:

METHANOL; 67-56-1; 30-34%

The USEPA CERCLA Reportable Quantity (RQ) for this product as a whole is: 1610 Gallons (Propargyl alcohol)

Canadian WHMIS classification: B2 ,D1B,D2A,D2B

16. OTHER INFORMATION

Sections affected by last revision:

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
TRANSPORT INFORMATION

*Mark of Schlumberger. The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by Schlumberger regarding the accuracy or completeness of the information.