

Material Safety Data Sheet

Version: 5.0

Revision Date : 01/20/2004
Date Issued : 03/30/2004

FLOOD

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

Trade name : FLOOD
PRODUCT CODE : 200317
CHEMICAL FAMILY : Polyether Modified Polysiloxane

Information on manufacturer/supplier : GOLDSCHMIDT CHEMICAL CORPORATION
914 EAST RANDOLPH ROAD
HOPEWELL, VA 23860

Emergency telephone number (24h) : Telephone:
CHEMTREC (800) 424-9300
CANUTEC (613) 996-6666
Non-Emergency Phone Number: (800) 732-5616

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No	Concentration [%]
Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether	134180-76-0	75

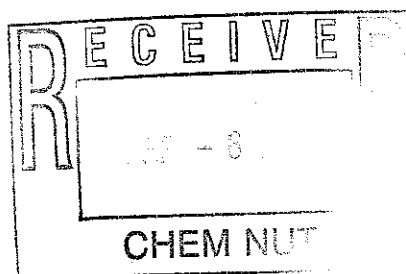
3. HAZARDS IDENTIFICATION

Emergency Overview

Physical Appearance

Form : Liquid
Colour : light yellow
Odour : characteristic
Water solubility : soluble

pH : 8



Potential health effects

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- Immediate concerns : Harmful by inhalation and in contact with skin. Irritating to skin. Risk of serious damage to eyes. Toxic for aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Eyes : Severely irritating to the eyes.
- Skin : May cause slight irritation.
- Ingestion : May be slightly toxic based on acute animal studies. Exact effects on humans are not known.
- Inhalation : May be slightly toxic based on acute animal studies. Exact effects on humans are not known.
- Primary routes of entry : Eyes, Skin, Inhalation, Ingestion
- Target organs : Eyes, Skin, Respiratory Tract, Digestive System
- Carcinogenicity : Not listed by NTP, IARC, ACGIH, or OSHA as a carcinogen.

4. FIRST AID MEASURES

- Eyes : Flush eye(s) for 15 minutes or more; if irritation persists, consult a physician (preferably an eye specialist) and show MSDS.
- Skin : Immediately and thoroughly, wash off with soap and water.
- Ingestion : If swallowed, seek medical attention and show MSDS.
- Inhalation : Remove individual from site of exposure to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.
- General advice : Remove soiled or soaked clothing immediately

5. FIRE-FIGHTING MEASURES

- Flash point : 216 °F
Method: TAG CC
- Autoignition temperature : not measured

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- Upper Explosion limits : not measured
- Lower explosion limit : not measured
- Suitable extinguishing media : foam, carbon dioxide, dry powder, water spray
- Extinguishing media which must not be used for safety reasons : not applicable
- Products in case of fire : In the event of fire the following can be released:
- Carbon monoxide, carbon dioxide, silicon dioxide
- Further information : Collect contaminated firefighting water separately, must not be discharged into the drains.
- Special protective equipment for firefighters : As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.
- Hazardous decomposition products : None with proper storage and handling.
- OSHA flammable class : Combustible Liquid, Class IIIB

6. ACCIDENTAL RELEASE MEASURES

- Methods for cleaning up / taking up : Small spills :
Use personal protective equipment. Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. Take up with absorbent material (e.g. sand, kieselguhr, universal binder).

Release Notes :

US regulations require reporting spills of this material that could reach any surface waters
The toll free number for the US Coast Guard National Response Center is (800) 424-8802

In case of accident or road spill notify :

Telephone:

CHEMTREC USA (800) 424-9300
CANUTEC Canada (613) 996-6666
CHEMTREC (other countries) (International code)+1-202-483-7616

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7. HANDLING AND STORAGE

General Procedures Handling

Advice on safe handling : formation of aerosols or vapors during processing and application should be prevented.
Wear respiratory protection when spraying.

Advice on protection against fire and explosion : No special measures required.

Storage

Further information : Keep container tightly closed

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA hazardous components (29 CFR 1910.1200)

Components	CAS-No.	Basis	Type	Value	Note
Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether	134180-76-0	OSHA PEL	TWA		Not Established

Personal protection equipment

General protective measures : Avoid contact with eyes and skin
Do not inhale aerosols

Hygiene measures : No smoking, eating or drinking allowed when using this product. Wash hands before breaks and at end of work shift.
Protective ointment is recommended.

Respiratory protection : In case of formation of aerosols or vapors, an organic vapor cartridge respirator may be used.

Hand protection : PVC gloves

Eye protection : Safety goggles and/or face shield is recommended for use.

Protective clothing : Light protective clothing is required.

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Engineering controls : Good general (mechanical) ventilation should be sufficient to control airborne levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid
Colour : light yellow
Odour : characteristic
Melting temperature : not measured
Boiling temperature : not measured
Vapour pressure : not measured
Density : approx. 1.02 g/cm³
at 77.00 °F
Weight per volume : 8.49 Lb/Gal
Water solubility : soluble
pH : 8
at 40 g/l water
at 25 °C
Viscosity, dynamic : approx. 40 - 90 mPa.s
at 25 °C
Method: DIN 53019
Volatile organic compound : 15.15 g/l
0.13 Lb/Gal
percent non-volatile: 98.5 %

10. STABILITY AND REACTIVITY

Conditions to avoid : None with proper storing and handling.
Thermal decomposition : Not measured
Hazardous reactions : No hazardous reactions with proper storage and handling.
Hazardous polymerisation : No

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Stability : Yes
Hazardous decomposition products : None with proper storage and handling.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 Species: rat
Dose: 3,200 mg/kg

Acute inhalation toxicity : LC50 aero. Species: rat
Dose: 1.08 mg/l
Exposure time: 4 h
Method: OECD 403
Source: Untersuchungsbericht/Th. Goldschmidt AG

Acute dermal toxicity : LD50 Species: rabbit
Dose: 1,550 mg/kg
LD50 Species: rat
Dose: > 2,000 mg/kg

Skin irritation : Species: rabbit
slightly irritant

Eye irritation : Species: rabbit
strongly irritant

Sensitization : Species: Guinea pig
non-sensitizing

Note : Harmful by inhalation and in contact with skin.
Irritant to skin
Risk of serious damage to eyes
The toxicological data refer to the undiluted 100 % product.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish : LC50 Species: rainbow trout
Dose: 2.1 mg/l

Toxicity to daphniae : EC50 Species: Daphnia magna
Dose: 1.1 mg/l

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Toxicity to algae : EC50 Species: Scenedesmus subspicatus
Dose: 28.2 mg/l
refer to biomass

EC50 Species: Scenedesmus subspicatus
Dose: 152.2 mg/l
growth rate

Further ecological information

Ecological notes : The product is considered to be a water pollutant (German law).
Do not discharge product unmonitored into the environment.
The ecotoxicological data refer to the undiluted 100 % product.
The product does not cause essential disturbances of ecological processes and equilibriums, when used in the recommended concentrations and ways of applications.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and federal regulations.

Product disposal and disposal requirements : In accordance with local authority regulations, take to special waste incineration plant

Contaminated packaging : If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

14. TRANSPORT INFORMATION

Sea transport

IMDG:

Class : 9
UN-No : 3082
PG : III
MFAG :
EmS : F-A S-F
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard release : Polyethersiloxane
Label : 9

Air transport

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ICAO/IATA:

Class : 9
UN-No : 3082
PG : III
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
Hazard release : Polyethersiloxane
Label : 9

DOT (Department of Transportation)

CFR Road:

Not regulated

CFR Rail:

Not regulated CANADA Transport of Dangerous goods

TDG Road:

Not regulated

TDG Rail:

Not regulated

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15. REGULATORY INFORMATION

United States

- SARA Section 311/312 : Fire: No
Pressure generating: No
Reactivity: No
Acute: Yes
Chronic: No
- SARA Sections : SECTION 313
Notification : No
This product contains no SARA Title III, Section 313 listed chemicals.
- TSCA (Toxic Substance Control Act) : TSCA Inventory
Notification : Yes
All intentional ingredients are listed in the TSCA Inventory or comply with TSCA Polymer Exemption criteria per 40 CFR 723.
- TSCA (Toxic Substance Control Act) : SECTION 13
Notification : Yes
- California Proposition 65 Statement : Notification : No
This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.
- Canada : WHMIS CLASSIFICATION
Class D, Division 2, Subdivision B
- Canadian Environmental Protection Act
All intentional ingredients are listed on the DSL (Domestic Substance List) or have been notified pursuant to the NSN regulations.

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16. OTHER INFORMATION

HMIS Codes : Fire : 1
Health : 3
Physical Hazard : 0
Protection : X

Manufacturer disclaimer : While the information and recommendations contained herein are believed to be accurate, we make no warranty with respect hereto and disclaim all liability from reliance thereon