

Material Safety Data Sheet

Version: 2.3

Revision Date : 06/23/2011
Date Issued : 08/23/2013

SILIKOPON EF

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

Trade name : SILIKOPON EF
 PRODUCT CODE : 207101
 CHEMICAL FAMILY : Siliconeepoxide resin, solvent-free

Information on manufacturer/supplier : Evonik Industries AG
 Werk Tego
 Goldschmidtstr. 100
 Essen, 05 45127

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 [%]
1-Butanol	71-36-3	< 0.002
Methanol	67-56-1	0.198
1-Butanol, titanium(4+) salt (4:1)	5593-70-4	0.095 - 0.099
2-Propanol, titanium(4+) salt	546-68-9	0.001 - 0.005

3. HAZARDS IDENTIFICATION

Emergency Overview

Physical Appearance

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

pH : not applicable

Potential health effects

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- Immediate concerns : No particular hazards are known.
- Eyes : No harmful effects have been reported upon contact with the eyes.
- Skin : No harmful effects have been reported upon contact with skin.
- Ingestion : No harmful effects have been reported upon ingestion.
- Inhalation : No harmful effects have been reported upon inhalation.
- Primary routes of entry : None
- Target organs : None
- Carcinogenicity : Not listed by NTP, IARC, ACGIH, or OSHA as a carcinogen.

4. FIRST AID MEASURES

- Eyes : Flush eye immediately and thoroughly while protecting the unhurt eye. If symptoms persist, seek medical attention.
- Skin : Immediately and thoroughly, wash off with soap and water.
- Ingestion : If swallowed, seek medical attention and show MSDS.
- Inhalation : Ensure supply of fresh air.

Notes to physician

- Symptoms : No special hints.
- Treatment : Treat symptomatically.
- General advice : Remove soiled or soaked clothing immediately

5. FIRE-FIGHTING MEASURES

- Flash point : 242.6 °F
Method: DIN EN 22719 (DIN 51758)
- Ignition temperature : not measured

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- Autoignition temperature : not measured
- 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 : Full water jet
- Products in case of fire : In the event of fire the following can be released:
- Carbon monoxide, carbon dioxide, silicon dioxide
Under certain conditions of combustion traces of other toxic substances cannot be excluded
- 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.
- 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

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 : Wear respiratory protection when spraying.
Provide good ventilation of working area (local exhaust ventilation if necessary).

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

Storage

Further information : Keep container tightly closed in a well-ventilated place

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA hazardous components (29 CFR 1910.1200)

Components	CAS-No.	Base	Type	Value	Note
1-Butanol	71-36-3	US. ACGIH Threshold Limit Values	Time Weighted Average (TWA):	20 ppm	
Methanol	67-56-1	US. ACGIH Threshold Limit Values	Skin designation:		Can be absorbed through the skin.
Methanol	67-56-1	US. ACGIH Threshold Limit Values	Short Term Exposure Limit (STEL):	250 ppm	
Methanol	67-56-1	US. ACGIH Threshold Limit Values	Time Weighted Average (TWA):	200 ppm	
1-Butanol	71-36-3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)	PEL:	100 ppm 300 mg/m3	
Methanol	67-56-1	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)	PEL:	200 ppm 260 mg/m3	

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Personal protective equipment

- General protective measures : Avoid contact with eyes and skin
Do not inhale gases/vapours/aerosols.
- Hygiene measures : No smoking, eating or drinking allowed when using this product. Wash hands before breaks and at end of work shift.
- Respiratory protection : In case of formation of vapors/aerosols: respiratory protective equipment, cartridge for organic gases and vapors.
- Hand protection : gloves made of nitril (NBR)
gloves made of butyl (IIR)
- Eye protection : Use chemical resistant goggles.
- Protective clothing : Light protective clothing is required.
- 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
- State of aggregation : Liquid
- Melting temperature : not measured
- Boiling temperature : not measured
- Vapour pressure : not measured
- Density : 1.000 - 1.200 g/cm³
at 77.00 °F
Method: DIN 51757
- Water solubility : insoluble
- pH : not applicable
- Viscosity, dynamic : 1,000 - 2,000 mPa.s
at 25 °C
Method: DIN 53015 (Höppler)

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Evaporation rate : not measured
Volatile organic compound : Percent Water:0.001 %

10. STABILITY AND REACTIVITY

Conditions to avoid : Unknown
Thermal decomposition : Not measured
Hazardous reactions : Hydrolysis may result in formation of methanol depending on the specific conditions of use.
Hazardous polymerisation : No
Stability : Yes
Hazardous decomposition products : None with proper storage and handling.
Materials to avoid : Unknown

11. TOXICOLOGICAL INFORMATION

Note : Possibility of sensitisation through skin contact.
REGULATION (EC) No. 1272/2008
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.

12. ECOLOGICAL INFORMATION

Further ecological information

Ecological notes : Do not allow to enter soil, waterways or waste water canal.

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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:

Not regulated

Air transport

ICAO/IATA:

Not regulated

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: No
Chronic: No

SARA Sections : SECTION 313
Notification : Yes

Components	CAS-No.
1-Butanol	71-36-3
Methanol	67-56-1

Notification Status : TSCA
Notification : Yes
All intentional ingredients are listed in the TSCA Inventory or comply with TSCA Polymer Exemption criteria per 40 CFR 723.

State regulations : MASS. RIGHT TO KNOW
Notification : Yes

RHODE ISLAND RTK
Notification : Yes

NEW JERSEY RTK
Notification : Yes

PENNSYLVANIA RTK
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.

CERCLA : CAS 71-36-3 : 500 lb
CERCLA : CAS 67-56-1 :

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Canada : WHMIS CLASSIFICATION
Non-WHMIS

This product contains component(s) that are listed on the WHMIS Ingredient Disclosure List.

Components	CAS-No.
1-Butanol	71-36-3
Methanol	67-56-1

Notification Status : Canadian Environmental Protection Act
DSL
Notification : Yes
All intentional ingredients are listed on the DSL (Domestic Substance List) or have been notified pursuant to the NSN regulations.

16. OTHER INFORMATION

HMIS Codes : Fire : 1
Health : 1
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

END OF MSDS