

SAFETY DATA SHEET (SDS) GB/T 16483 and GB/T 17519

TEGOPREN 6923

Substantive organomodified siloxane



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1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : TEGOPREN 6923
Chemical Name : Substantive organomodified siloxane

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant applications identified : Additives for textile
Applications which are not advised : None known.

1.3. Details of the supplier of the safety data sheet

Company : Evonik Specialty Chemicals (Shanghai)
Co. Ltd.
68 Lianhe Road (D3 Block), SCIP
201507 SHANGHAI
China
Telephone : +86 (0)21 6119-1586
Telefax : +86 (0)21 6119-1264
E-mail : productsafety-china@evonik.com

1.4. Emergency telephone number

Emergency information : +86 532 8388-9090 (China 24h)

2. Hazards identification

2.1. Emergency Overview

Colour: yellow-brown, Odour: mild, No particular hazards known. No physical and chemical hazards known. No health hazards known. No environmental hazards known. No information is on file to date regarding acute and/or delayed post-exposure symptoms and effects. Treat symptomatically.

2.2. Classification of the substance or mixture

Classification according to GHS Regulation.

Not a hazardous product according to GHS (China).

2.3. Label elements

The product does not require a hazard warning label in accordance with GHS.

2.4. Most important symptoms and effects, both acute and delayed

Symptoms : No information is on file to date regarding acute and/or delayed post-exposure symptoms and effects.

2.5. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

2.6. Physical and chemical hazards

No physical and chemical hazards known. No particular hazards known.

2.7. Health hazards

No health hazards known.

2.8. Environmental hazards

No environmental hazards known.

2.9. Other hazards

None known

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3. Composition/information on ingredients

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3.1. Substances

-

3.2. Mixtures

No hazardous ingredients according to GHS (China).

4. First aid measures

4.1. Description of first aid measures

General advice : Remove contaminated clothing.
Inhalation : Ensure supply of fresh air.
Skin contact : In case of contact with skin wash off immediately with soap and water
Consult a doctor if skin irritation persists.
Eye contact : In case of contact with eyes rinse thoroughly with plenty of water. If symptoms
persist, seek medical advice.
Ingestion : Call for medical advice immediately; show the container or the label.

4.2. Most important symptoms and health effects.

Symptoms : No information is on file to date regarding acute and/or delayed post-exposure
symptoms and effects.

4.3. Advice for protecting first-aid responders

No data available

4.4. Special notes to physicians.

Treat symptomatically.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : foam, carbon dioxide, dry powder, water spray.
Unsuitable extinguishing media : not applicable

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released:
- Carbon monoxide, carbon dioxide, silicon dioxide
- Nitrogen oxides (NOx)

5.3. Fire precautions and protective measures

Do not inhale explosion and/or combustion gases

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

6.2. Environmental precautions

Do not allow to enter drains or waterways
Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

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Take up with absorbent material (eg sand, kieselguhr, universal binder)
Dispose of absorbed material in accordance with the regulations.

6.4. Precautionary measures to prevent the occurrence of secondary disasters.

Do not allow to enter soil, waterways or waste water canal.
Shut off ignition sources; no flares, smoking or flames in hazard area.

6.5. Reference to other sections

For further information on exposure monitoring and disposal see sections 8 and 13.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : No hazardous reactions are known if properly handled and stored.
Handling : No data available
Hygiene measures : Do not eat, drink or smoke when working.
Wash hands before breaks and after work.
Remove soiled or soaked clothing immediately.
General protective measures : Avoid contact with eyes and skin

7.2. Conditions for safe storage, including any incompatibilities

Prevention of fire and explosion

Information : Keep away from sources of ignition - no smoking
Take precautionary measures against electrostatic loading.
Cool endangered containers by water spray

Storage

Information :

8. Exposure controls/personal protection

8.1. Occupational Exposure Limits

Contains no substances with occupational exposure limit values (China).

8.2. Biological occupational exposure limits

Contains no substance with biological exposure limit values (China).

8.3. Monitoring methods

No data available

8.4. Engineering controls

No data available

8.5. Personal protective equipment

Appropriate engineering controls : No data available
Eye protection : tightly fitting safety glasses
Hand protection : PVC gloves

Examples of suitable gloves are those made by the company Kä chele-Cama Latex GmbH, Am Kreuzacker 9, D-36124 Eichenzell, e-mail vertrieb@kcl.de, with subsequent specification (test according to EN374); specific workplace conditions must be separately taken into account.

These recommendations apply only to the product mentioned in the material data safety sheet that we supply and the purpose that we indicate.

Glove material: gloves made of natural latex

Break through time: 480 min

Glove thickness: 0.5 mm

Glove material: gloves made of chloroprene (CR, e.g. Neoprene)

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Break through time: 480 min

Glove thickness: 0.65 mm

Glove material: gloves made of nitril (NBR)

Break through time: 480 min

Glove thickness: 0.4 mm

Glove material: gloves made of butyl (IIR)

Break through time: 480 min

Glove thickness: 0.7 mm

Glove material: protective gloves made of fluorinated rubber (FKM, e.g. Viton)

Break through time: 480 min

Glove thickness: 0.7 mm

Body Protection : light protective clothing

Respiratory protection : in case of formation of vapours/aerosols:
Short term: filter apparatus, Filter A-P2

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : liquid

Form : liquid

Colour : yellow-brown

Odour : mild

Odour Threshold : not measured

pH : 6.5 - 8.5
100 g/l

Method: DIN 51369

Melting point : not measured

Boiling point : not measured

Flash point : > 101 °C
Method: DIN EN 22719 (DIN 51758)

Evaporation rate :

Flammability : no data available

Upper Explosion/Ignition Limit : not measured

Lower explosion limit : not measured

Vapour pressure : not measured

Relative vapour density : not measured

Relative density : No data available

Solubility(ies) : not measured

Water solubility : not measured

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|--|---|---|
| Partition coefficient: n-octanol/water | : | not measured |
| Autoignition temperature | : | |
| Thermal decomposition | : | not measured |
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | <= 10,000 mPa-s (25 °C) Method: Brookfield |
| Explosive properties | : | not measured |
| Oxidising properties | : | not measured |
| Density | : | 0.983 g/cm ³ (25 °C) Method: DIN 51757 |

9.2. Other information

| | | |
|----------------------|---|--------------|
| Metal corrosion | : | not measured |
| Ignition temperature | : | not measured |

10. Stability and reactivity

10.1. Chemical stability

The product is stable under normal conditions.

10.2. Possibility of hazardous reactions

No hazardous reactions with proper storage and handling.

10.3. Conditions to avoid

10.4. Incompatible materials

Unknown

10.5. Hazardous decomposition products

None with proper storage and handling.

11. Toxicological information

11.1. Information on toxicological effects

| | | |
|-----------------------|---|---|
| Acute toxicity (oral) | : | LD50 Species: Rat Dose: > 5,000 mg/kg |
|-----------------------|---|---|

| | | |
|--------------------------------|---|-------------------|
| Acute toxicity (inhalation) | : | no data available |
| Acute toxicity (dermal) | : | no data available |
| Respiratory/skin sensitization | : | no data available |
| Repeated dose toxicity | : | no data available |

CMR assessment

| | | |
|-----------------|---|-------------------|
| Carcinogenicity | : | No data available |
|-----------------|---|-------------------|

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Mutagenicity : no data available
Teratogenicity : No data available
Toxicity to reproduction : No data available
Specific Target Organ : no data available
Toxicity - Single exposure
Specific Target Organ : no data available
Toxicity - Repeated exposure
Aspiration hazard : No aspiration toxicity classification
Other information : Proper use provided, no adverse health effects have been observed or have been come to our knowledge.
The toxicological data given are by analogy

12. Ecological information**Ecotoxicology Assessment**

Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

12.1. Toxicity

Aquatic toxicity, fish : No data available

Aquatic toxicity, in vertebrates : Species: Daphnia magna
Exposure duration: 48 h
EC50: > 200 mg/l
Method: OECD 202

Aquatic toxicity, algae / aquatic plants : No data available

Toxicity in microorganisms : No data available

chronic toxicity in fish : No data available

Chronic toxicity in aquatic Invertebrates : No data available

Toxicity in organisms which live in the soil : No data available

Toxicity in terrestrial plants : No data available

Toxicity to Above-Ground Organisms : No data available

12.2. Persistence and degradability

Photodegradation : No data available

Biological degradability : No data available

Physico-chemical removability : No data available

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Biochemical Oxygen Demand (BOD) : No data available

Chemical Oxygen Demand (COD) : 1,710,000 mg/l

relation of BOD/COD : No data available

Dissolved organic carbon (DOC) : No data available

Adsorbed organic bound halogens (AOX) : No data available

Distribution among environmental compartments : No data available

12.3. Bioaccumulative potential

Bioaccumulation : No data available

12.4. Mobility in soil

Environmental distribution : No data available

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment : No data available

12.6. Other adverse effects

General Information : The product is considered to be a water pollutant (German law).
Do not allow to enter soil, waterways or waste water canal.
The ecological data have been established for similar products.

13. Disposal considerations

13.1. Waste treatment methods

Product : 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

Not dangerous according to transport regulations.

14.1. UN number: --
14.2. UN proper shipping name: --
14.3. Transport hazard class(es): --
14.4. Packing group: --
14.5. Environmental hazards: --
14.6. Special precautions for user: No

15. Regulatory information

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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**Notification status**

China (IECSC) : listed/registered or exempted

Other regulations : none

16. Other information

Comply with national laws regulating employee instruction.

List of references

| | |
|---------------|--|
| Revision date | : --- |
| Made by | : S-ESHQ, Evonik China |
| Approved by | : Evonik Industries AG |
| Reference | : MEP: Inventory of Existing Chemical Substance in China (IECSC) SAWS#Hyper toxic chemical inventory SAWS: Catalogue of Hazardous Chemicals Differentiation of great danger source (GB18218) MEP: Inventory of Dangerous Waste MOH#Inventory of highly hazardous substance State department: Regulation on management of precursor of narcotic chemicals Occupational Exposure Limit for Hazardous Agents in the Workplace GBZ 2 GB12268 List of dangerous goods MEP, Customs: Catalogue of Toxic Chemicals Prohibited or Strictly Controlled to Import or Export |

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

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Legend

| | |
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| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADNR | European agreement concerning the international carriage of dangerous goods by inland waterways (ADN) |
| ASTM | American Society for Testing and Materials |
| ATP | Adaptation to Technical Progress |
| BCF | Bioconcentration factor |
| BetrSichV | German Ordinance on Industrial Safety and Health |
| c.c. | closed cup |
| CAS | Chemical Abstract Services |
| CESIO | European Committee of Organic Surfactants and their Intermediates |
| ChemG | German Chemicals Act |
| CMR | carcinogenic-mutagenic-toxic for reproduction |
| DIN | German Institute for Standardization |
| DMEL | Derived minimum effect level |
| DNEL | Derived no effect level |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| EC50 | half maximal effective concentration |
| GefStoffV | German Ordinance on Hazardous Substances |
| GGVSEB | German ordinance for road, rail and inland waterway transportation of dangerous goods |
| GGVSee | German ordinance for sea transportation of dangerous goods |
| GLP | Good Laboratory Practice |
| GMO | Genetic Modified Organism |
| IATA | International Air Transport Association |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods |
| ISO | International Organization For Standardization |
| LOAEL | Lowest observed adverse effect level |
| LOEL | Lowest observed effect level |
| NOAEL | No observed adverse effect level |
| NOEC | no observed effect concentration |
| NOEL | no observed effect level |
| o. c. | open cup |
| OECD | Organisation for Economic Cooperation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent, bioaccumulative, toxic |
| PEC | Predicted effect concentration |
| PNEC | Predicted no effect concentration |
| REACH | REACH registration |
| RID | Convention concerning International Carriage by Rail |
| STOT | Specific Target Organ Toxicity |
| SVHC | Substances of Very High Concern |
| TA | Technical Instructions |
| TPR | Third Party Representative (Art. 4) |
| TRGS | Technical Rules for Hazardous Substances |
| VCI | German chemical industry association |
| vPvB | very persistent, very bioaccumulative |
| VOC | volatile organic compounds |
| VwVwS | German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes |
| WGK | Water Hazard Class |
| WHO | World Health Organization |