

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

TEGOPREN 6924

Substantive organomodified siloxane



Version **2.0 / CN** VA-No.
Revision date **03/13/2018**
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1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : TEGOPREN 6924
Chemical Name : Substantive organomodified siloxane

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

Relevant applications identified : Industrial Use
Applications which are not advised : None known.

1.3. Details of the supplier of the safety data sheet

Company : Evonik Nutrition & Care GmbH
Goldschmidtstr. 100
D-45127 Essen
Telephone : +49 (0)201 173-01
Telefax : +49 (0)201 173-3000
E-mail : productsafety-cs@evonik.com

1.4. Emergency telephone number

Emergency information : +49 (0)201 173-01 (Phone)
+49 (0)201 173-1854 (Fax)

2. Hazards identification

2.1. Emergency Overview

Colour: yellowish, Odour: characteristic, Keep away from sources of ignition - No smoking. No physical and chemical hazards known. Possible risk of harm to the unborn child. Dangerous for the environment 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.

Reproductive toxicity	Category 2	H361
Acute aquatic toxicity	Category 3	H402
Chronic aquatic toxicity	Category 3	H412

2.3. Label elements

Constituent decisive for hazardous-substance labeling : Siloxanes and silicones, dimethyl, 3-{3-[(3-Cocoamidopropyl)-dimethylammonia]-2-hydroxy-propoxy}propyl group terminated, acetates (; CAS-No.: 134737-05-6)

Octamethylcyclotetrasiloxane; CAS-No.: 556-67-2

Symbol(s) :



Signal word : Warning

hazard statement : H361 - Suspected of damaging fertility or the unborn child.
H402 - Harmful to aquatic life.
H412 - Harmful to aquatic life with long lasting effects.

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Precautionary Statement (Prevention) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P273 - Avoid release to the environment.
P281 - Use personal protective equipment as required.

Precautionary Statement (Response) : P308 + P313 - IF exposed or concerned: Get medical advice/ attention.

Precautionary Statement (Storage) : P405 - Store locked up.

Precautionary Statement (Disposal) : P501 - Dispose of contents/container in accordance with local regulation.

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. Keep away from sources of ignition - No smoking.

2.7. Health hazards

Possible risk of harm to the unborn child.

2.8. Environmental hazards

Dangerous for the environment

2.9. Other hazards

None known

3. Composition/information on ingredients

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3.1. Substances

-

3.2. Mixtures

Information on ingredients / Hazardous components according to GHS.

Chemical Name	CAS-No.	Concentration	Classification
Siloxanes and silicones, dimethyl, 3-{3-[(3-Cocoamidopropyl) - dimethylammonia]-2-hydroxy-propoxy}propyl group terminated, acetates (134737-05-6	>= 80 % - < 100 %	H402, 3, Acute aquatic toxicity H412, 3, Chronic aquatic toxicity
Octamethylcyclotetrasiloxane	556-67-2	>= 0.1 % - < 1 %	H226, 3, Flammable liquids H333, 5, Acute toxicity, Inhalation H361, 2, Reproductive toxicity H413, 4, Chronic aquatic toxicity

Texts of H phrases, see in Chapter 16

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4. First aid measures

4.1. Description of first aid measures

- | | |
|----------------|--|
| General advice | : Remove soiled or soaked clothing immediately |
| Inhalation | : Ensure supply of fresh air.
In the event of symptoms seek medical advice. |
| Skin contact | : In case of contact with skin wash off 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 | : Thoroughly clean the mouth with water
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 dioxide, carbon monoxide
- Silicon dioxide
- Nitrogen oxides (NO_x)

Under certain conditions of combustion traces of other toxic substances cannot be excluded

5.3. Fire precautions and protective measures

Do not inhale explosion and/or combustion gases
Use self-contained breathing apparatus and wear protective suit

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

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

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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. 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 special measures necessary if stored and handled as prescribed.
Handling : no data available
Hygiene measures : Wash hands before breaks and after work.
General protective measures : Wash hands before breaks and immediately after handling the product.
Avoid contact with eyes.
Wear suitable protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Prevention of fire and explosion

Information : Keep away from sources of ignition - no smoking
Cool endangered containers by water spray

Storage

Information :
Further information on storage : Keep container tightly closed conditions

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 : goggles with side pieces
Hand protection : Examples of suitable gloves are those made by the company Kächele-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 natural latex

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Break through time: > 480 min

Glove thickness: 1 mm

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

Break through time: > 480 min

Glove thickness: 0.6 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: 0.3 mm

Body Protection : light protective clothing

Respiratory protection : Breathing apparatus in the event of aerosol or mist formation.
Short term: filter apparatus, combination filter A-P2

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : liquid

Form : liquid

Colour : yellowish

Odour : characteristic

Odour Threshold : not measured

pH : 6.7 - 8.3
100 g/l

Method: DIN 51369

Remarks: water

Melting point : not measured

Boiling point : not measured

Flash point : > 100 °C
Method: DIN EN 22719 (DIN 51758)

Evaporation rate : not measured

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

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Solubility(ies)	: not measured
Water solubility	: insoluble
Partition coefficient: n-octanol/water	: not measured
Autoignition temperature	: not measured
Thermal decomposition	: not measured
Viscosity, kinematic	: no data available
Viscosity, dynamic	: 7,000 - 15,000 mPa.s (25 °C)
Explosive properties	: not measured
Oxidising properties	: not measured
Density	: 0.98 - 1.01 g/cm3 (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

Unknown

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

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Irritation/corrosion of the skin : Species: rabbit
Result: non-irritant

Serious eye damage/ eye irritation : Species: rabbit
Result: slight irritant effect - does not require labelling

Respiratory/skin sensitization : Result: non-sensitizing
Test substance: (analogy)

Repeated dose toxicity : no data available

CMR assessment

Carcinogenicity : no data available

Mutagenicity : Not mutagenic in Ames Test
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

Teratogenicity : no data available

Toxicity to reproduction : no data available

Specific Target Organ Toxicity - Single exposure : no data available

Specific Target Organ Toxicity - Repeated exposure : no data available

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.
- Contains Octamethylcyclotetrasiloxane -
Rats that have had octamethylcyclotetrasiloxane administered repeatedly by inhalative or oral methods showed an increase of liver weights. No other symptoms to the liver had been observed. Further studies on rabbits and guinea pigs did not show effects to the liver.
In range-finding studies Octamethylcyclotetrasiloxane affected the reproduction of laboratory animals exposed to high vapour concentrations of 500 and 700 ppm, but not in lower concentrations.
Effects on maternal animals (systemic toxicity) were already seen with 300 ppm and higher concentrations. The significance of these findings to humans is doubtful.
In developmental toxicity studies in which rats and rabbits were exposed to Octamethylcyclotetrasiloxane by vapour inhalation of high concentrations up to 700 ppm and 500 ppm respectively, no teratogenic effects (no malformations) were observed.

12. Ecological information**Ecotoxicology Assessment**

Acute aquatic toxicity : no data available

Chronic aquatic toxicity : no data available

12.1. Toxicity

Aquatic toxicity, fish : Species: Brachydanio rerio
Exposure duration: 96 h
LC50: 30.8 mg/l
Method: OECD 203
Test substance: (analogy)

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

Aquatic toxicity, algae / aquatic plants : static test
Species: Pseudokirchneriella subcapitata
growth rate
Exposure duration: 72 h
ErC50: 7.2 mg/l
Method: OECD TG 201
GLP: yes
Test substance: Main component(s)
Remarks: Own test result.
river water

static test
Species: Pseudokirchneriella subcapitata (green algae)
growth rate
Exposure duration: 72 h
ErL10 (Estimated Loading rate): 2.2 mg/l
Method: OECD TG 201
GLP: yes
Test substance: Main component(s)
Remarks: Own test result.
river water

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

Biochemical Oxygen Demand (BOD) : no data available

Chemical Oxygen Demand (COD) : no data available

relation of BOD/COD : no data available

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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.

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

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

Notification status

China (IECSC) : listed/registered or exempted

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Other regulations : none

16. Other information

Relevant H phrases from chapter 3

H226	: Flammable liquid and vapour.
H333	: May be harmful if inhaled.
H361	: Suspected of damaging fertility or the unborn child.
H402	: Harmful to aquatic life.
H412	: Harmful to aquatic life with long lasting effects.
H413	: May cause long lasting harmful effects to aquatic life.

List of references

Revision date	: 03/13/2018
Made by	: S-ESHQ, Evonik China
Approved by	: Evonik Industries AG
Reference	: MEP: Inventory of Existing Chemical Substance in China (IECSC) 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.

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Legend

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