

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

Product information

Trade name : Silox

Company : Dr.-Ing Ritter Apparatebau GmbH
Coloniastraße 19-23
D-44892 BOCHUM – Germany

Telephone : +49-(0)234-280077
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Usage : Packing liquid for gas meter "MilliGascounter"

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Cyclic siloxanes.
Name: Decamethylcyclopentasiloxan

3. HAZARDS IDENTIFICATION

Risk advice to man and the environment

none under normal use

4. FIRST AID MEASURES

Skin contact : Wash off with soap and plenty of water.
Eye contact : Rinse with plenty of water.
Ingestion : Obtain medical attention.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : carbon dioxide (CO₂)
foam
water spray
dry powder

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Evacuate personnel to safe areas.
Remove all sources of ignition.
Pay attention to flashback

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Methods for cleaning up : Take up with an absorbent for chemicals or, otherwise use dry sand.
Take up mechanically and collect in suitable container for disposal.

7. HANDLING AND STORAGE

Handling

Advice on safe handling : Product may charge electrostatically during pouring or filling.
Take measures to prevent the build up of electrostatic charge
Keep containers tightly closed in a dry, cool and well-ventilated place.
Wash hands before breaks and immediately after handling the product.

Advice on protection against fire and explosion : Provide sufficient air exchange and/or exhaust in work rooms.
Keep away from sources of ignition - No smoking.
Keep away from combustible material.
When using do not smoke.
Do not empty into drains.
Take precautionary measures against static discharges.

Storage

Requirements for storage areas and containers : Keep containers tightly closed in a cool, well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment
Respiratory protection : Respirator with type ABEK filter if product vapour is formed.

Hand protection :
Advise : There is no risk to health due to contact with the chemical. Use hand protection to prevent mechanically injuries.

Eye protection : safety glasses

Skin and body protection : lab coat

Hygiene measures : Avoid contact with skin, eyes and clothing.
Ensure adequate ventilation, especially in confined areas.
Handle in accordance with good industrial hygiene and safety practice.
Wash hands before breaks and immediately after handling the product.
When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid

Colour : colourless
Odour : faint distinctive odour

Safety data

Melting point/range : <-40 °C
Method: No information available.

Boiling point/range : 210 °C
at 1.013 hPa
Method: No information available.

Flash point : 77 °C
Method: DIN 51755

Ignition temperature : 450 °C
Method: DIN 51794

Lower explosion limit : 0,52 %(V)

Upper explosion limit : 7 %(V)

Vapour pressure : 0,16 hPa
at 20 °C
Method: No information available.

Density : 0,964 g/cm³
at 15 °C Method: No information available.

Density : 0,927 g/cm³
at 50 °C Method: DIN 51757

Density : 0,96 g/cm³
at 20 °C Method: DIN 51757

Density : 0,95 g/cm³
at 25 °C Method: DIN 51757

Viscosity, dynamic : 4 mPa.s
at 20 °C

10. STABILITY AND REACTIVITY

Further information : Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.
No dangerous reaction if used as recommended.
No dangerous decomposition products if stored properly.
No decomposition if used appropriately.

11. TOXICOLOGICAL INFORMATION

Acute inhalation toxicity : LCLo rat
Dose: > 6.722 mg/l

Skin irritation	:	rabbit Result: No skin irritation
Eye irritation	:	rabbit Result: No eye irritation
Sensitization	:	Magnusson-Kligmann guinea pigs Result: negative
Mutagenicity	:	Salmonella/Microsome-test: No indication of mutagenic effects.
Human experience	:	According to current knowledge, polydimethylsiloxanes are not physiologically a problem; but contact with eyes can cause short time, harmless, reversible blurred vision, due to the formation of an oil film on the eye.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish	:	LC0 Species: <i>Leuciscus idus</i> Dose: 200 mg/l Exposure time: 96 h
Toxicity to bacteria	:	EC0 Species: <i>Pseudomonas putida</i> Dose: 10.000 mg/l
Additional ecological information	:	Polydimethylsiloxanes may undergo limited abiotic degradation; there is no evidence of bioaccumulation.

13. DISPOSAL CONSIDERATIONS

Product	:	Can be incinerated, when in compliance with local regulations.
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14. TRANSPORT INFORMATION

Further Information	:	combustible Keep away from food and drink.
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15. REGULATORY INFORMATION

labelling according to EEC Directive

No labelling according to the German Dangerous Substances Regulations and the corresponding EU-Directives.



SAFETY DATA SHEET
ACCORDING TO EC DIRECTIVE 2001/58/EC
Silox

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16. OTHER INFORMATION

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
