

Issue Date: 05.04.2019 Last revised date: 11.01.2023 Supersedes Date: 26.07.2021

# **SAFETY DATA SHEET**

# 1. Identification

Product identifier: SILIKOPON® ED

Chemical name: Siliconeepoxide resin, solvent-free

Other means of identification

Recommended use: Industrial use

**Recommended restrictions:** None known.

Manufacturer/Importer/Distributor Information

Company Name : Evonik Australia Pty Ltd

Suites 33&37 1 Ricketts Road

Mt Waverley, VIC 3149

Australia

Telephone : +61 3 8581 8400

Fax : +61 3 9544 5002

E-mail : productsafety-cs@evonik.com

**Emergency telephone number:** 

24-Hour Health

: +61 2 9037 2994

Emergency

+1 703 527 3887 (CHEMTREC WORLD)

# 2. Hazard(s) identification

#### Classification according to GHS

**Health Hazards** 

Skin sensitizer Category 1

**Label Elements** 

**Hazard Symbol:** 





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Signal Word: Warning

**Hazard Statement:** May cause an allergic skin reaction.

Precautionary Statements

**Prevention:** Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work

clothing should not be allowed out of the workplace. Wear protective gloves.

**Response:** IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash

occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instructions on this label). Take off contaminated clothing and wash

it before reuse.

**Disposal:** Dispose of contents/ container to an approved facility in accordance with

local, regional, national and international regulations.

Other hazards: Contains epoxy-containing compounds. Observe manufacturer's instructions.

## 3. Composition/information on ingredients

## **Chemical name:**

Siliconeepoxide resin, solvent-free

#### **Substances**

#### Composition information of impurities and stabilizers

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
4,4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	No data available.	30583-72-3	<10%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.

# 4. First-aid measures

#### Description of necessary first-aid measures

General information: Remove soiled or soaked clothing immediately

**Inhalation:** fresh air supply, consult a doctor if feeling unwell.

Skin Contact: In case of contact with skin wash off immediately with soap and

water In case of discomfort: Supply with medical care.



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Eye contact: In case of contact with eyes rinse thoroughly with water. In case

of discomfort: Supply with medical care.

**Ingestion:** Thoroughly clean the mouth with water In case of discomfort:

Supply with medical care.

**Personal Protection for First-aid** 

Responders:

No data available.

Most important symptoms and effects, both acute and delayed

**Symptoms:** Up to now no symptoms are known.

**Hazards:** No data available.

Indication of immediate medical attention and special treatment needed

**Treatment:** Treat symptomatically.

# 5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** foam, carbon dioxide, dry powder, water spray.

Unsuitable extinguishing media: High volume water jet.

Special hazards arising from the

substance or mixture:

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 and precautions for firefighters

**Special fire fighting procedures:** No specific precautions.

Special protective equipment for fire-

fighters:

Do not inhale explosion and/or combustion gases. Self-

contained breathing apparatus.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency

procedures:

Use personal protective equipment.

Accidental release measures: No data available.

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.

**Environmental Precautions:** Do not allow to enter drains or waterways Prevent product

from getting into subsoil/soil.



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# 7. Handling and storage

# Handling

Technical measures (e.g. Local and

general ventilation):

No data available.

Safe handling advice: Provide good ventilation of working area (local exhaust

ventilation if necessary). Use respiratory protection during spraying. Avoid contact with skin and eyes. Do not inhale

gases/vapours/aerosols.

Contact avoidance measures: No data available.

**Storage** 

Safe storage conditions: Keep container tightly closed in a cool, well-ventilated place.

Safe packaging materials: No data available.

# 8. Exposure controls/personal protection

#### **Control Parameters**

## **Occupational Exposure Limits**

Observe national threshold limit values.

**Biological Limit Values** 

Observe national threshold limit values.

Appropriate Engineering Controls No data available.

Individual protection measures, such as personal protective equipment

General information: No data available.

**Eye/face protection:** Safety goggles

**Skin Protection** 

Hand Protection: Additional Information: gloves made of nitril (NBR), gloves

made of butyl (IIR)

Other: protective clothing

**Respiratory Protection:** in case of formation of vapours/aerosols: Short term: filter

apparatus, combination filter A-P2

**Hygiene measures:** Wash hands before breaks and immediately after handling

the product. Remove soiled or soaked clothing immediately. When using do not eat, drink or smoke. Use skin protective

preparation as preventive skin protection.



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# 9. Physical and chemical properties

Information on basic physical and chemical properties

**Appearance** 

Physical state: liquid

Form:

Color:

Odor:

Odor Threshold:

Freezing point:

Boiling Point:

Flammability:

Viscous Liquid

yellowish

Characteristic

not measured

not measured

not measured

Upper/lower limit on flammability or explosive limits

**Explosive limit - upper:** not measured **Explosive limit - lower:** not measured

**Flash Point:** 230 °F/110 °C (DIN EN 22719)

Autoignition Temperature: not measured

Decomposition Temperature: not measured

pH: Not applicable

Viscosity

**Dynamic viscosity:** 1,000 - 2,000 mPa.s (77 °F/25 °C, DIN 53015) **Kinematic viscosity:** 870 - 1739 mm2/s (77 °F/25 °C, calculated)

Flow Time: No data available.

Solubility(ies)

Solubility in Water: Insoluble
Solubility (other): not measured
Partition coefficient (n- not measured

octanol/water):

Vapor pressure:not measuredRelative density:not measured

**Density:** 1.135 - 1.15 g/cm3 (77 °F/25 °C) (DIN 51757)

**Bulk density:**Relative vapor density:
No data available.
not measured

Other information

Explosive properties: not measured
Oxidizing properties: not oxidizing
Minimum ignition temperature: not measured

Metal Corrosion: Not corrosive to metals

**Evaporation Rate:** not measured

# 10. Stability and reactivity

**Reactivity:** see section "Possibility of hazardous reactions".



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**Chemical Stability:** The product is stable under normal conditions.

Possibility of hazardous reactions: Hydrolysis may result in formation of methanol depending

on the specific conditions of use.

Conditions to avoid: None with proper storage and handling.

Incompatible Materials: Not known.

**Hazardous Decomposition** 

**Products:** 

None with proper storage and handling.

# 11. Toxicological information

## Information on toxicological effects

# Information on likely routes of exposure

**Inhalation:** Information on effects are given below.

**Skin Contact:** Information on effects are given below.

**Eye contact:** Information on effects are given below.

**Ingestion:** Information on effects are given below.

# Acute toxicity (list all possible routes of exposure)

Oral

**Product:** LD 50 (ATEmix): > 5,000 mg/kg

Components:

4,4'- LD 50 (Rat): > 2,000 mg/kg

Isopropylidenedicyclohe xanol, oligomeric

reaction products with 1-chloro-2,3-epoxypropane

Dermal

**Product:** LD 50 (ATEmix): > 5,000 mg/kg

Components:

4,4'- No classification

Isopropylidenedicyclohe xanol, oligomeric

reaction products with 1-chloro-2,3-epoxypropane

Inhalation

**Product:** LC 50 (ATEmix, 4 h): > 40 mg/l Vapour

**Components:** 



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4.4'-

Vapour. No data available. Dust and mist. No data available.

Isopropylidenedicyclohe xanol, oligomeric reaction products with 1chloro-2,3-epoxypropane

Repeated dose toxicity

**Product:** No data available.

**Components:** 

4.4'-No data available.

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

Skin Corrosion/Irritation

**Product:** No data available.

Components:

4,4'-OECD 404 (Rabbit): Not irritating

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

Serious Eye Damage/Eye

Irritation

**Product:** No data available.

Components:

4.4'-OECD 405 (Rabbit): Not irritating

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

Respiratory or Skin Sensitization

> **Product:** No data available.

**Components:** 

4.4'-Local Lymph Node Assay (LLNA), OECD 429 (Mouse): May cause

Isopropylidenedicyclohex sensitization by skin contact. anol, oligomeric reaction

2,3-epoxypropane

products with 1-chloro-

Carcinogenicity **Product:** No data available.

Components:

4,4'-No data available.

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane



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## **Germ Cell Mutagenicity**

No data available.

In vitro

**Product:** No data available.

Components:

4,4'- Ames test (OECD 471): negative

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

In vivo

**Product:** No data available.

Components:

4,4'- No data available.

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

Reproductive toxicity

**Product:** No data available.

Components:

4,4'- No data available.

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

**Specific Target Organ Toxicity - Single Exposure** 

**Product:** No data available.

Components:

4,4'- No data available.

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

Specific Target Organ Toxicity - Repeated Exposure

**Product:** No data available.

Components:

4,4'- No data available.

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

**Aspiration Hazard** 

**Product:** Not classified

Components:



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4,4'- Not classified

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

#### Information on health hazards

Other hazards

**Product:** No data available.

# 12. Ecological information

# **Ecotoxicity:**

#### Acute hazards to the aquatic environment:

Fish

**Product:** No data available.

Components:

4,4'- LC 50 (Oncorhynchus mykiss, 96 h): Approximate 11.5 mg/l

Isopropylidenedicyclohe xanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

**Aquatic Invertebrates** 

**Product:** No data available.

Components:

4,4'- EC 50 (Daphnia magna, 48 h): 18.3 mg/l lsopropylidenedicyclohe NOEC (Daphnia magna, 48 h): 10 mg/l

xanol, oligomeric

reaction products with 1-

chloro-2,3epoxypropane

**Toxicity to Aquatic Plants** 

**Product:** No data available.

**Components:** 

4,4'- EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 100 mg/l lsopropylidenedicyclohex (OECD 201)

anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

Toxicity to microorganisms

**Product:** No data available.

**Components:** 

4,4'- EC 50 (activated sludge, 3 h): > 1,000 mg/l (OECD 209)

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane



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# Toxicity to soil dwelling organisms

**Product:** No data available.

**Components:** 

4,4'- No data available.

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

## Toxicity to terrestrial organisms

**Product:** No data available.

Components:

4,4'- No data available.

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

#### Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

Components:

4,4'- NOEC (Oncorhynchus mykiss, 96 d): 7.5 mg/l

Isopropylidenedicyclohe xanol, oligomeric reaction products with 1-chloro-2.3-

chloro-2,3epoxypropane

**Aquatic Invertebrates** 

**Product:** No data available.

Components:

4,4'- NOEC (Daphnia magna, 48 d): 10 mg/l

Isopropylidenedicyclohe xanol, oligomeric reaction products with 1-

chloro-2,3epoxypropane

**Toxicity to Aquatic Plants** 

**Product:** No data available.

Components:

4,4'- NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): > 100 mg/l

Isopropylidenedicyclohex (OECD 201) anol, oligomeric reaction

Toxicity to microorganisms

products with 1-chloro-2,3-epoxypropane

**Product:** No data available.

Components:

4,4'- EC 50 (activated sludge, 3 h): > 1,000 mg/l (OECD 209)

Isopropylidenedicyclohex anol, oligomeric reaction

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products with 1-chloro-2,3-epoxypropane

#### Toxicity to soil dwelling organisms

**Product:** No data available.

Components:

4,4'- No data available.

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

# Toxicity to terrestrial organisms

**Product:** No data available.

Components:

4,4'- No data available.

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

# Persistence and Degradability

**Biodegradation** 

**Product:** No data available.

Components:

4,4'- 0 % (28 d, OECD 301 D) The product is not biodegradable., aerobic

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

# **BOD/COD Ratio**

**Product:** No data available.

Components:

4,4'- No data available.

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

#### **Bioaccumulative potential**

#### **Bioconcentration Factor (BCF)**

**Product:** No data available.

Components:

4,4'- No data available.

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

# Partition Coefficient n-octanol / water (log Kow)

**Product:** Log Kow: not measured

Components:



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4,4'- Log Kow: 3.84

Isopropylidenedicyclohex anol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

#### Mobility in soil:

**Product** No data available.

Components:

4,4'- No data available.

Isopropylidenedicyclohexano I, oligomeric reaction products with 1-chloro-2,3-epoxypropane

**Product** No data available.

Components:

4,4'- No data available.

Isopropylidenedicyclohexano I, oligomeric reaction products with 1-chloro-2,3-epoxypropane

#### Other adverse effects:

Other hazards

**Product:** Do not allow to enter soil, waterways or waste water canal.

# 13. Disposal considerations

**Disposal methods:** 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

#### **ADG**

Not regulated as a dangerous good

#### International Regulations

#### **UNRTDG**

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### **IMDG-Code**

Not regulated as a dangerous good



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#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

# 15. Regulatory information

#### International regulations

#### Montreal protocol

Not applicable

#### Stockholm convention

Not applicable

## **Rotterdam convention**

Not applicable

#### **Kyoto protocol**

Not applicable

# 16.Other information, including date of preparation or last revision

**Issue Date:** 05.04.2019

Version #: 1.2

Further Information: No data available.

**Revision Information:** Changes since the last version are highlighted in the margin. This version

replaces all previous versions.

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products could not be used.