

EU SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006 (REACH)

Epoxytable 10
Epoxy Resin

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Epoxytable 10 Epoxy Resin

Chemical name : 4,4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

CAS-Number : 30583-72-3

EINECS / ELINCS / NLP : 500-070-7

Index number :

REACH registration No. : 01-2119959495-22-xxxx

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

Recommended use: Manufacture of bulk, large scale chemicals (including petroleum products) Formulation [mixing] of preparations and/or re-packaging (excluding alloys) Manufacture of plastics products, including compounding and conversion Manufacture of fabricated metal products, except machinery and equipment Manufacture of computer, electronic and optical products, electrical equipment General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment Building and construction work

1.3 Details of the supplier of the safety data sheet

RESIN PRO SRL

Via 25 Aprile - Z.I.snc, 19021 Arcola SP

P.IVA: 01473200119 • Capitale sociale 50000€ i.v • REA SP-210889 E-mail: info@resinpro.it

1.4 Emergency telephone number

Giftinformationszentrale Mainz (Vertragspartner)

Universitätsklinikum, Tel. +49-(0)6131-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Skin Sens. 1B; H317 May cause an allergic skin reaction.

Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

Classification according to Directive 67/548/EEC or 1999/45/EC

classification : Xi irritant

R phrase(s) : R43 May cause sensitization by skin contact.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Labelling (CLP)

Nature of Hazard

signal word Warning

Hazard statement(s) :

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s) :

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P272 Contaminated work clothing should not be allowed out of the workplace.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

2.3 Other hazards

Results of PBT and vPvB assessment This substance does not meet the criteria for classification as PBT or vPvB.

SECTION 3: Composition/ information on ingredients

chemical characterization Substance UVCB

Hazardous ingredients

Substance 1

4,4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

CAS-Number: 30583-72-3

EINECS / ELINCS / NLP: 500-070-7

REACH registration No.: 01-2119959495-22-xxxx

Nature of Hazard: Xi / R phrase(s): 43 - 52/53

Classification according to EC regulation 1272/2008 (CLP):

Skin Sens. 1B; H317 / Aquatic Chronic 3; H412

Additional information

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off immediately all contaminated clothing. If victim is at risk of losing consciousness, position and transport on their side. Seek medical assistance when anyone has symptoms apparently due to inhalation, swallowing or contact with skin or eyes.

After inhalation

Provide fresh air. If breathing becomes irregular or ceases, apply mouth-to-mouth resuscitation or artificial respiration immediately, where required supply oxygen. Seek medical attention if problems persist.

In case of skin contact

After contact with skin, wash immediately with plenty of water. In case of skin irritation, consult a physician. Seek medical attention if problems persist.

After eye contact

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After swallowing

If you feel unwell, seek medical advice (show the label where possible). Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Causes skin irritation. Causes eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

extinguishing powder, carbon dioxide alcohol resistant foam water fog water

Extinguishing media which must not be used for safety reasons

strong water jet

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: carbon monoxide and carbon dioxide hydrochloric Hazardous vapours may form during fires.

5.3 Advice for firefighters

Special protective equipment for firefighters

Wear suitable protective clothing. Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. - No smoking. Avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment. Wear suitable protective clothing. Provide fresh air. Keep away from unprotected people. Remove persons not involved upwind.

6.2 environmental precautions

Do not allow to enter into ground-water, surface water or drains. If necessary notify appropriate authorities.

6.3 Methods and material for containment and cleaning up

In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out). Absorb leftover product with non-flammable liquid-binding material (e.g. earth, sand, vermiculite or ground sand stone) and place in closed containers for disposal. Dam spills and pump to remove.

Additional information

6.4 Reference to other sections

Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling

Keep away from sources of ignition. Avoid contact with skin, eyes, and clothing. Wash hands before breaks and after work. Provide good ventilation and/or an exhaust system in the work area. Keep all containers, equipment and working place clean.

Precautions against fire and explosion

Keep away from sources of ignition. - No smoking.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers

Keep container tightly closed in a cool, well-ventilated place.

hints on joint storage

Keep away from food, drink and animal feeding stuffs.

Storage class

VCI 10

7.3 Specific end use(s)

n.a.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

PNEC:

aquatic freshwater: 11,5 ug/l

marine water: 1,15 ug/l

Intermittent: 0,115 mg/l

sewage treatment plant (STP): 100 mg/l

sediment freshwater: 0,229 mg/kg

sediment marine water: 0,0229 mg/kg

soil: 0,099 mg/kg

DNEL worker:

long-term dermal (systemic): 5,5 mg/kg bw/day

short-term dermal (systemic): 5,5 mg/kg bw/day

long-term dermal (local): 21 ug/cm²

short-term dermal (local): 0,23 mg/cm²

DNEL consumer:

long-term dermal (systemic): 3,3 mg/kg bw/day

short-term dermal (systemic): 3,3 mg/kg bw/day

long-term dermal (local): 21 ug/cm²

short-term dermal (local): 21 ug/cm²

long-term oral (systemic): 3,3 mg/kg bw/day

8.2 Exposure controls

Appropriate engineering controls

Provide good ventilation and/or an exhaust system in the work area.

Individual protection measures, such as personal protective equipment

General protection and hygiene measures Keep away from food and drink. When using do not eat, drink or smoke. Take off immediately all contaminated clothing. Wash hands before breaks and after work.

Eye/face protection tightly sealed safety glasses according to DIN EN 166

Skin protection

Hand protection Chemically resistant gloves Tested protective gloves must be worn according to DIN EN 374
Qualified materials: Nitrile rubber Fluororubber (Viton) Butyl caoutchouc (butyl rubber) PVC

(Polyvinyl chloride) Observe glove manufacturer's instructions concerning penetrability and breakthrough time. Wearing time with permanent contact: >60 min Wearing time with occasional contact (splashes): >10 min The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Other Wear suitable protective clothing and shoes.(DIN EN 14605, DIN EN ISO 20345)

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. For short exposures or in case of accident: Filter device, type A (= against vapours of organic compounds).

particle filter device (DIN EN 143)(Flashpoint > 65 °C. e. g. EN 14387 Type A)

Environmental exposure controls

SECTION 9: Physical and chemical properties

9.1 information on basic physical and chemical properties

Physical state : liquid, viscous

Colour : colourless

Odour : odourless

Odour threshold : No data available

pH value (20°C) : No data available

melting point / melting range : -12 .9 °C

boiling temperature / boiling range : No data available

Flash point / flash point range : (CC) 227 .4 °C

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Upper/lower flammability

or explosive limits lower : No data available

upper : No data available

Vapour pressure (25 °C) : 0,00333 Pa

Vapour density : No data available

Density : 1,08 g/ml

Solubility in water : : slightly miscible: 56,8 mg/l at 30 degrees C.

Partition coefficient n-octanol /water : logPow: 3,84 (20 °C)

Autoflammability : No data available

Decomposition temperature : No data available

Viscosity (dynamic at 25 °C) : 3000 mPa.s

Explosive properties : Product is not explosive.

Oxidising properties : not oxidizing

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

The product is chemically stable under recommended conditions of storage and use.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage and use.

10.3 Possibility of hazardous reactions

Violent reaction with: Strong oxidizing agents, strong acids. Amines alkalis

10.4 Conditions to avoid

Keep away from heat.

10.5 Incompatible materials

Strong oxidizing agents strong acids Amines alkalis

10.6 Hazardous decomposition products

May form dangerous gases and vapours in case of fire. In case of fire may be liberated: carbon monoxide and carbon dioxide hydrochloric

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

After inhalation : LC50 inhalative: not established

After swallowing : LD50 oral: ≥ 2000 mg/kg(Rat, OECD 425.)

In case of skin contact : LD50 dermal: > 2000 mg/kg(Rat, OECD 402)

skin corrosion/irritation : Not irritant to skin.(Rabbit, OECD 404; OECD 439) Furthermore, the test substance was not irritating to the skin of rats in an OECD 402 Acute Dermal study with a prolonged exposure time of 24 hours.

After eye contact : Not irritant to eyes.(Rabbit, OECD 405; OECD 437)

Sensibilisation: Preventive skin protection.

May cause sensitization by skin contact.(Mouse, OECD 429)

Sensibilisation: Respiratory system :

Not known to cause sensitization.

Specific target organ toxicity : No information available.

Repeated dose toxicity : No information available.

Aspiration Hazard : not applicable

CMR :

Carc.Cat. : -

Muta.Cat. : -

Repr.Cat. : -

Based on existing data the substance does not fulfill the criteria of CMR-substances Cat. 1 and 2 according 67/548/EEC. This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Further details : Ames test negative. OECD 471 (Ames test)

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity : Fish toxicity: LC50: 11,5 mg/l (96h); NOEC : 7,5 mg/l (96h)(Oncorhynchus mykiss (Rainbow trout), OECD 203)

Daphnia toxicity: EC50: 18,3 mg/l (48h); NOEC : 10 mg/l (48h)(Daphnia magna (Big water flea)., OECD 202)

Algae toxicity: EC50 / NOEC: > 100 mg/l (72h)(Pseudokirchnerella subcapitata, OECD 201)

Bacterial toxicity: EC50 / NOEC : > 1000 mg/l(activated sludge, OECD 209)

General information : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2 Persistence and degradability

General information : Product is not readily biodegradable. 0,1% / 28 day(OECD 301D/ EEC 92/69/V, C.4-E)

Oxygen demand : No data available

12.3 Bioaccumulative potential

Bioconcentration factor (BCF) : Koc: 425 (Log Koc: 2,63)

Partition coefficient n-octanol /water (log P O/W): 3,84

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance does not meet the criteria for classification as PBT or vPvB.

12.6 Other adverse effects

General information : Do not allow to penetrate into soil, waterbodies or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Recommendation : Incinerate as hazardous waste according to applicable local, state, and federal regulations. Do not dispose of with household waste.

Contaminated packaging

Recommendation : Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

14.1 UN number

ADR/RID -

ADN/ADNR -

IMDG -

IATA -

14.2 UN proper shipping name danger releasing substance

ADR/RID

ADN/ADNR

IMDG

IATA

ADR/RID ADN/ADNR IMDG IATA

14.3 Transport - - - -

hazard class(es)

14.4 Packing group - - - -

14.5 Environmental

Hazards

14.6 Special precautions for user

Further regulations, limitations and legal requirements

Code: ADR/RID EmS

-

Kemmler-number Stowage and segregation tunnel restriction

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

Not applicable

SECTION 15: Regulatory information

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

Seveso Category : not applicable

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

According to the 3rd point of the Annex.

Substance on the Candidate list (REACH Article 59.) :

not applicable

Annex XIV - List of substances subject to authorisation :

not applicable

Substance according to the Regulation (EC) No 689/2008 (PIC) :

not applicable

Substance according to the Regulation (EC) No 111/2005 :

not applicable

Chemical inventories :

EU (EINECS/ELINCS/NLP) Listed or exempted.

USA (TSCA 8b) Listed or exempted.

China (IECSC) Listed or exempted.

Australia Listed or exempted.

Japan Listed or exempted. 2,2-Bis (4-hydroxycyclohexyl) propane diglycidyl ether CAS: 13410-58-7; Class Reference No. in The Gazette List : 7-1282

South Korea (KECI) Listed or exempted. KE No: KE-23968

Canada Listed or exempted.

New Zealand (NZIoC) Listed or exempted.

Philippine (PICCS) Listed or exempted.

Storage class VCI 10

Contents of VOC [g/L] 0

Water Hazard Class 2

Further regulations, limitations and legal requirements

15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information

R phrase(s) R43 May cause sensitization by skin contact.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard statements H317 May cause an allergic skin reaction.

(CLP) H412 Harmful to aquatic life with long lasting effects.

Reason of change

Changes in section 1, 2, 3, 8, 9, 10, 11, 12, 14, 15, 16 and header

This version replaces previous version.

Further remarks

These data based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Naturally, safety is influenced by the circumstances of usage, which are beyond our control.