

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

1.1 Product identifier

Hardener red/brown

CAS number: -
EC number (EINECS/ELINCS): -
EC index number: -
REACH registration number: -

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

Identified uses of the substance or mixture: Hardener for Condensation cross-linking Erkodent-silicons
Not recommended uses of the substance or mixture: Other

1.3 Details of the supplier of the safety data sheet

Manufacturer

ERKODENT Erich Kopp GmbH
Siemensstrasse 3

Telephone: 07445 8501 0
Fax: 07445 2092

D 72285 Pfalzgrafenweiler

Supplier

ERKODENT Erich Kopp GmbH
Siemensstrasse 3

Telephone: 07445 8501 0
Fax: 07445 2092

D 72285 Pfalzgrafenweiler

Information contact

ERKODENT Erich Kopp GmbH

Information Telephone: 07445 8501 21

Information fax:

E-mail (competent person): w.heuchert@erkodent.com

Website: www.erkodent.com

National contact

ERKODENT Erich Kopp GmbH

Information Telephone: 07445 8501 0

Information fax:

E-mail (competent person): info@erkodent.com

Website:

1.4 Emergency telephone number

ERKODENT Erich Kopp GmbH
Only available during office hours.

Telephone: 07445 8501 0

1.5 Dept. responsible for information

Entwicklung +49 (0) 7445 8501-21

2. Hazards identification

2.1 Classification of the substance or mixture

Regulation (EC) No 1272/2008:
Skin Irrit. 2; H315

Directive 67/548/EEC:
Xi; R38

2.2 Label elements

2.2.1 Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms:



Signal word: Warning
H phrases: 315 Causes skin irritation.
 373A May cause damage to organs through prolonged or repeated exposure if swallowed.
P phrases: 280 Wear protective gloves/protective clothing/eye protection/face protection.
 302+352 IF ON SKIN: Wash with plenty of soap and water.
 313 Get medical advice/attention.
 332+313 If skin irritation occurs: Get medical advice/attention.
 352 Wash with plenty of soap and water.

2.2.2 Labelling according to Directive 67/548/EEC

Hazard symbols:



R phrases: Xi Irritant.
 38 Irritating to skin.
S phrases: -

2.3 Other hazards

none

3. Composition/information on ingredients

3.1 Chemical characterization of the substance or mixture

Preparation related information

3.2 Composition of the substance or mixture

| Substance: | EC-no.: | CAS-No.: | INDEX no.: | REACH-no.: | Concentration: | Classification: EC 1272/2008(CLP): | Classification: 67/548/EEC: |
|-----------------------------------|---------|------------|------------|------------|----------------|------------------------------------|-----------------------------|
| Bis(neodecanoyloxy)dioctylstannan | | 68299-15-0 | | | | Aquatic Chronic. 4; H413 | |

Ingredients with EC exposure limits

| Substance: | EC-no.: | CAS-No.: | INDEX no.: | REACH-no.: | Concentration: | Classification: EC 1272/2008(CLP): | Classification: 67/548/EEC: |
|------------|---------|----------|------------|------------|----------------|------------------------------------|-----------------------------|
|------------|---------|----------|------------|------------|----------------|------------------------------------|-----------------------------|

(The wording of the listed risk phrases is given in Chapter 16)

3.3 Additional information

none

4. First aid measures**4.1 Description of first aid measures**

- General information:** Remove contaminated clothing immediately and dispose off safely.
- Following inhalation:** Move victim to fresh air. Put victim at rest and keep warm. In case of irregular breathing or respiratory arrest provide artificial respiration.
- After skin contact:** After contact with skin, wash immediately with plenty of water and soap. Seek medical attention if problems persist. In case of skin irritation, consult a physician. Take off immediately all contaminated clothing.
- Following eye contact:** In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.
- After ingestion:** If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do not induce vomiting.
- Self-protection:** First aid assistant: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms:** In all cases of doubt, or when symptoms persist, seek medical advice.
- Nature of Hazard:** No information available.

4.3 Indication of any immediate medical attention and special treatment needed

- Emergency aid:** No information available.
- Treatment:** Treat symptomatically.

5. Fire fighting measures**5.1 General information**

Use water spray/stream to protect personnel and to cool endangered containers.

5.2 Extinguishing media

- Suitable:** Carbon dioxide (CO₂). Extinguishing powder. Sand. Foam.
- Unsuitable:** Water.

5.3 Special hazards arising from the substance or mixture

No information available.

5.4 Advice for fire fighters**Special protective equipment for fire-fighters**

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear personal protection equipment. Remove all sources of ignition. Avoid contact with skin, eyes and clothes.

6.2 Environmental precautions

Do not empty into drains or the aquatic environment. Do not allow to enter into soil/subsoil.

6.3 Methods and materials for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.

6.4 References to other sections

This information is not available.

7. Handling and storage

7.1 Precautions for safe handling

Information for safe handling

Protect against: Heating UV-radiation/sunlight.

Technical measures

Always close containers tightly after the removal of product. Keep container tightly closed in a cool, well-ventilated place.

Precautions against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge.

Additional information

none

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

No special technical protective measures are necessary.

Packaging materials

Keep/Store only in original container.

Requirements for storerooms and containers

Keep in a cool, well-ventilated place. Put lids on containers immediately after use.

Information about storing together in storage facility

Keep away from food, drink and animal feedingstuffs.

Further information concerning storage conditions

Always close containers tightly after the removal of product. Only use material in places where open light, fire and other sources of ignition can be kept away. Keep only in the original container in a cool, well-ventilated place. Keep container tightly closed in a cool, well-ventilated place. Recommended storage temperature: Observe technical data sheet.

Storage class: 10 Combustible liquids unless LGK 3A or 3B.

7.3 Specific end use(s)

Observe instructions for use.

8. Exposure controls / personal protection

8.1 Control parameters

8.1.1 Limits for occupational exposure

Exposure limit values

| Substance: | CAS-No.: | Source: | Occupational exposure limit value: | Limitation of exposure peaks: | Remark: |
|------------------------------------|------------|---------|------------------------------------|-------------------------------|---------|
| Bis(neodecanoyloxy)diocetylstannan | 68299-15-0 | | | | |

EC exposure limit values

| Substance: | CAS-No.: | Source: | Occupational exposure limit value: | Limitation of exposure peaks: | Remark: |
|------------|----------|---------|------------------------------------|-------------------------------|---------|
| | | | | | |

8.1.2 DNEL and PNEC values

DNEL-values

| Substance: | CAS-No.: | DNEL/DMEL | Industry | Professional | consumer |
|------------|----------|-----------|----------|--------------|----------|
| | | | | | |

PNEC-values

| Substance: | CAS-No.: | PNEC | Worker, industry | Worker, professional | consumer |
|------------|----------|------|------------------|----------------------|----------|
| | | | | | |

8.1.3 Control-Banding

Control-Banding

none

8.1.4 Additional information

Occupational exposure limit value: TRGS 900

8.2 Exposure controls

Occupational exposure controls

none

Chemical handling

Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work. Take off immediately all contaminated clothing.

Personal protection equipment

XXXX

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. Technical ventilation of workplace.

Hand protection

Suitable gloves type: NBR (Nitrile rubber). PVC (Polyvinyl chloride). CR (polychloroprene, chloroprene rubber).

Eye protection

Eye protection: not required.

Skin protection

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

Environmental exposure controls

refer to chapter 7. No further action is necessary. Do not empty into drains or the aquatic environment.

Consumer exposure controls

refer to chapter 7. No further action is necessary.

8.3 Exposure scenario

none

9. Physical and chemical properties**9.1 Information on basic physical and chemical properties****Appearance**

State of matter: Paste
Colour: red brown
Odour: characteristic like: ester
Odour threshold: No data available

Safety relevant basis data

| | Parameter | Value | Unit | Remark |
|---|-----------|-----------|-------------------|----------------------------|
| Density: | | 780 - 880 | kg/m ³ | |
| Package density: | | | | not applicable |
| pH: | | | | not determined |
| Melting point / range: | | 45 - 65 | °C | |
| Boiling temperature / range: | | | | not determined |
| Flash point: | | 130 | °C °C °C °C | |
| Flammability: | | | | not determined |
| Lower flammability limit: | | | | not determined |
| Upper flammability limit: | | | | not determined |
| Explosion hazard: | | | | not explosive. |
| Lower explosion limit: | | | | not determined |
| Upper explosion limit: | | | | not determined |
| Ignition temperature: | | | | none Risk of selfignition. |
| Decomposition temperature: | | | | not determined |
| Oxidizing characteristics: | | | | not determined |
| Vapour pressure: | | | | not applicable |
| Relative vapour density: | | | | not applicable |
| Speed of vaporization/evaporation rate: | | | | not applicable |
| Solubility in water: | | | | slightly soluble |
| Fat solubility: | | | | not determined |
| Solubility in log P O/W (n-octanol / water): | : | | | not determined |
| Viscosity: | | | | not determined |
| Solvent separation test: | | | | not determined |
| Solvent content: | | | | not determined |

9.2 Other information

No information available.

10. Stability and reactivity**10.1 Reactivity**

Polymerization.

10.2 Chemical stability

none slow decomposition spontaneous decomposition

10.3 Possibility of hazardous reactions

Can polymerise exothermically if heated, exposed to air, sunlight or by addition of free radical initiators.

10.4 Conditions to avoid

Keep away from heat.

10.5 Incompatible materials

acid. Base. Oxidizing agents

10.6 Hazardous decomposition products

Carbon dioxide (CO₂) Carbon monoxide. Nitrogen oxides (NO_x)

10.7 Additional information

none

11. Toxicological information

11.1 Information on toxicological effects

Toxicological data are not available.

Acute toxicity

| Substance: | CAS-No.: | Toxicological information |
|------------------------------------|------------|---------------------------|
| Bis(neodecanoyloxy)diocetylstannan | 68299-15-0 | |

Specific symptoms in laboratory animals

Toxicological data are not available.

11.2 Irritation and etching

Irritant effect on the skin

Irritating to skin.

Irritant effect on the eye

Irritating to eyes.

Irritant effect on the respiratory tract

No information available.

Etching

No information available.

11.3 Sensitization

Toxicological data are not available.

11.4 Repeated dose toxicity

H373a

May cause damage to organs through prolonged or repeated exposure if swallowed.

11.5 CMR effects

Carcinogenicity

Toxicological data are not available.

Mutagenicity

Toxicological data are not available.

Reproductive toxicity

Toxicological data are not available.

11.6 General remarks

No information available.

Practical experience

No information available.

Other observations

No information available.

Additional information

No information available.

12. Ecological information**12.1 Toxicity**

Do not empty into drains or the aquatic environment. There are no data available on the mixture itself.

Eco toxicity

| Substance: | CAS-No.: | Ecotoxicity |
|------------|----------|-------------|
| | | |

12.2 Persistence and degradability

There are no data available on the mixture itself.

12.3 Bio accumulative potential

There are no data available on the mixture itself.

12.4 Mobility in soil

There are no data available on the mixture itself.

12.5 Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6 Other adverse effects

There are no data available on the mixture itself.

12.7 Further ecological information

hazardous to water (WGK 2)

12.8 Further details

Do not empty into drains or the aquatic environment.

13. Disposal considerations**13.1 Waste treatment methods****Appropriate disposal/Product**

Do not empty into drains or the aquatic environment. Dispose of waste in own country; otherwise, follow EC regulations. Waste disposal according to EC Directives 75/442/EEC and 91/689/EEC on waste and hazardous waste in their latest versions.

Appropriate disposal/ packaging

Waste disposal according to official state regulations.

Control report for waste code/ waste marking according to EAKV

Consult the local waste disposal expert about waste disposal.

Waste key product:

Waste key packaging:

Remark

Waste disposal according to official state regulations.

14. Transport information

14.1 Overland transport (ADR/RID)

Proper Shipping name

UN No.:

Label:

Remark:

Packing Group:

Classification code:

Not a hazardous material with respect to these transportation regulations.

14.2 Transport by sea (IMDG)

Proper Shipping name

UN-No.:

Label:

EmS-No:

Special Provisions:

Remark:

Packing Group:

MFAG:

Marine pollutant:

Not a hazardous material with respect to these transportation regulations.

14.3 Air transport (ICAO-TI / IATA-DGR)

Proper Shipping name

UN/ID-No.:

Label:

Remark:

Packing Group:

Not a hazardous material with respect to these transportation regulations.

14.4 Mail

Not a hazardous material with respect to these transportation regulations.

15. Regulatory information

15.1 Labelling

Hazardous component(s) for labelling

Bis(neodecanoyloxy)dioctylstannan

Special labelling of particular preparations

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

EU-Regulations

Directive 1999/13/EC on the limitation of emissions of volatile organic compounds (VOC-RL)

No information available.

Regulation (EC) No 2037/2000 on substances that deplete the ozone layer

No information available.

Regulation (EC) No 850/2004 on persistent organic pollutants

No information available.

Regulation (EC) No 689/2008 concerning the export and import of dangerous chemicals

No information available.

Regulation (EC) No 648/2004 (Detergents regulation)

No information available.

Restrictions under Title VIII of Regulation (EC) No 1907/2006

No information available.

National regulations

Moreover, national legislation has to be observed!

Informations on working limitations

No information available.

Major Accidents Ordinance

No information available.

Storage class according to VCI

10 Combustible liquids unless LGK 3A or 3B.

Water Hazard Class according to VwVwS

2 water pollutant (WGK 2)

Technical Instructions on Air Quality Control (TA-Luft)

No information available.

Further regulations, limitations and legal requirements

No information available.

15.3 Chemical safety assessment

For this preparation a chemical safety assessment has been carried out:

For this substance a chemical safety assessment has not been carried out.

16. Other information

16.1 Wording of the H and R-phrases under paragraph 3

Regulation (EC) No 1272/2008

315 Causes skin irritation.

373A May cause damage to organs through prolonged or repeated exposure if swallowed.

Directive 67/548/EEC

38 Irritating to skin.

16.2 Training instructions

none/none

16.3 Recommended restrictions of use

none

16.4 Further remarks

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

16.5 Documentation of changes

* Data changed from previous versions

16.6 Data sources

none/none

16.7 Key and definition

Wording of the r-phrases under paragraph 3:

17. Appendix**17.1 Exposure scenario**

-
