according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Floortec 2C Epoxy Primer 473

Floortec 2K-Epoxi-Primer 473

Revision date: 14.06.2022 **Version (Revision):** 9.0.0 (8.0.0)

Print date : 14.06.2022

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

1.1 Product identifier

Floortec 2C Epoxy Primer 473 Floortec 2K-Epoxi-Primer 473

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

Relevant identified uses

Products Category [PC]

PC 9 - Coatings and paints, fillers, putties, thinners.

Uses advised against

There are no information about relevant identified uses of the product according to the Regulation (EC) No. 1907/2006 (REACH-Regulation), which are advised against. For using the product observe the information in the Technical data sheet of the product.

1.3 Details of the supplier of the safety data sheet

Supplier

Brillux GmbH & Co KG www.brillux.de

Street: Weseler Straße 401

Postal code/City: D - 48163 Münster

Telephone: +49 (0)251-7188-0 **Telefax:** +49 (0)251-7188-280 **Information contact:**

Electronic mail address of the well-informed person for safety data sheets:sdb@brillux.de

1.4 Emergency telephone number

Outside the business hours (9 a.m. to 5 p.m.):

(Giftinformationszentrum-Nord, Göttingen, consultation in german or english language)

Telephone: +49 (0)551-19240.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

Eye Dam. 1; H318 - Serious eye damage/eye irritation: Category 1; Causes serious eye damage.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Corrosion (GHS05)

Signal word

Danger

Hazard components for labelling

CARBOMONOCYCLIC ALKYLATED MIXTURES OF POLY-AZA-ALKANES, HYDROGENATED; CAS No.: 1219458-07-7

Hazard statements

H318 Causes serious eye damage.

Page: 1 / 10

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Floortec 2C Epoxy Primer 473

Floortec 2K-Epoxi-Primer 473

Revision date: 14.06.2022 **Version (Revision):** 9.0.0 (8.0.0)

Print date : 14.06.2022

H315 Causes skin irritation.

Precautionary statements

P102 Keep out of reach of children.

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

P310 Immediately call a POISON CENTER or a doctor.
P332+P313 If skin irritation occurs: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water

[or shower].

P501 Dispose of contents/container to approved disposal company or local collection.

Special rules for supplemental label elements for certain mixtures

EUH208 Contains M-PHENYLENEBIS(METHYLAMINE). May produce an allergic reaction.

2.3 Other hazards

The product does not contain any substances with endocrine-disrupting properties according to Article 59 Paragraph 1 or substances with endocrine-disrupting properties according to Regulations (EU) 2017/2100 or (EU) 2018/605. The product does not contain any substances, which fulfil the criteria for PBT or vPvB in accordance with the Annex XIII of the Regulation (EC) No 1907/2006 (REACH-Regulation).

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description

Epoxy resins; Composition:

Polyamine - epoxy adduct , water and additives

Hazardous ingredients

CARBOMONOCYCLIC ALKYLATED MIXTURES OF POLY-AZA-ALKANES, HYDROGENATED; CAS No.: 1219458-07-7

Weight fraction : \geq 3 - < 5 %

Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Aquatic Chronic 3 ; H412 M-PHENYLENEBIS(METHYLAMINE) ; REACH No. : 01-2119480150-50 ; EC No. : 216-032-5; CAS No. : 1477-55-0

Weight fraction : $\geq 0.1 - < 0.5 \%$

Classification 1272/2008 [CLP]: Skin Corr. 1B; H314 Acute Tox. 4; H302 Acute Tox. 4; H312 Acute Tox. 4; H332

Skin Sens. 1; H317 Aquatic Chronic 3; H412 EUH071

Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical attention. Immediately remove all contaminated clothing. If unconscious no administration by mouth, storage in recovery position and seek medical advice. In case of unconsciousness: lay on side - call a doctor. If medical advice is needed, have product container or label at hand.

Following inhalation

When symptoms persists, take the casualty into the fresh air and keep warm. Irregular breathing/no breathing: artificial respiration.

In case of skin contact

Take off immediately all contaminated clothes. Wash away with soap and water and rinse. Do NOT use solvents or thinners. If skin irritation continues, consult a doctor.

After eye contact

Remove contact lenses, keep eyelids open. Rinse open eye immediately with plenty of running water. Seek medical

Page: 2 / 10

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Floortec 2C Epoxy Primer 473

Floortec 2K-Epoxi-Primer 473

Revision date: 14.06.2022 **Version (Revision):** 9.0.0 (8.0.0)

Print date : 14.06.2022

adivce if complaint continues.

Following ingestion

Drink water in small draught. Keep at rest. Do not induce vomiting. When swallowed immediately consult and show packing or label to physician.

4.2 Most important symptoms and effects, both acute and delayed

Potential symptoms: Skin and eye iriitation are possible. Allergic symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

This product is not flammable. In case of a fire extingnish surroundings as indicated.

Unsuitable extinguishing media

None known.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

5.3 Advice for firefighters

Special protective equipment for firefighters

When extinguishing fires, use breathing apparatus with an independent source of air.

5.4 Additional information

Cool endangered containers with water in case of fire. Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in sections 7 and 8. The product produced in combination with water slippery surfaces.

6.2 Environmental precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations. Holding polluted washing water back and disposing of duly.

6.3 Methods and material for containment and cleaning up

For cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Remove residue by rinsing thoroughly with water. Thoroughly clean contaminated objects and floors and observe environmental regulations.

6.4 Reference to other sections

See Section 7 for information on safe handling. You find information about the safety equipment of persons in the section 8, information about the refuse disposal in section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

No special measures necessary in the case of regulation storage and handling. Ensure a good ventilation in room and

Page: 3 / 10

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Floortec 2C Epoxy Primer 473

Floortec 2K-Epoxi-Primer 473

Revision date: 14.06.2022 **Version (Revision):** 9.0.0 (8.0.0)

Print date : 14.06.2022

working area. For personal protection see Section 8. Avoid contact with skin and eyes. By the risk of splashing wear suitable protective clothing and face protection. Read label before use.

Measures to prevent fire

This product is not flammable. Cool endangered containers with water.

Advices on general occupational hygiene

While working do not eat, drink or smoke. Wash hands and face before breaks and after work and take a shower if necessary. Immediately remove all contaminated clothing.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly in a dry, cool and good ventilated place. Do not store the product in lounge room. Keep only in the original container. Protect against frost. Keep out of the reach of children.

Hints on joint storage

Store away from foodstuffs.

Storage class (TRGS 510): 12

Further information on storage conditions

Keep container tightly sealed. Store at 5°-35°C. Containers should be kept dry and sealed.

7.3 Specific end use(s)

For using the product observe the information in the Technical data sheet of the product.

Industrial sector specific solutions

GISCODE: Product code in accordance with GISBAU (hazardous materials information system of the German professional associations of the building and construction industry) for epoxy resin coating cloths (GISCODE): RE20.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

None

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Observe data available of section 7.

Personal protection equipment

Eye/face protection

Use tightly fitting safety glasses.

Skin protection

Hand protection

At use as agreed a protective gloves from nitrile rubber, tested according to EN 374, with a material thickness 0.38 mm has to be used. Notes of the manufacturer have to be taken into account. Penetration time of the glove material: > 8 h.

By longer or repeated contact the penetration times can be considerably shorter. The protective gloves should replaced after the first wear out or a damage of the gloves. Gloves of cotton should be used under the gloves of polychloropren or nitrile rubber. After washing hands replace lost skin fat by fat containing skin creams.

Body protection

Using protective clothing.

Respiratory protection

Breathing protection equipment is not required in good ventilated places. Use combination filter A1-P2 in unclear conditions and in confined spaces.

Do not inhale the vapour.

General information

Avoid contact with eyes and skin. Immediately remove all contaminated clothing. Do not eat or drink during work - no

Page: 4 / 10

according to Regulation (EC) No. 1907/2006 (REACH)



DIN-cup 4 mm

Trade name : Floortec 2C Epoxy Primer 473

Floortec 2K-Epoxi-Primer 473

Revision date: 14.06.2022 **Version (Revision):** 9.0.0 (8.0.0)

Print date : 14.06.2022

smoking. Wash hands before breaks and after work. Ensure a good ventilation in room and working area. Do not breathe vapour.

Environmental exposure controls

The product should not reach waters and the ground. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.

Colour: conformable to product designation.

Odour

Poor, characteristic.

Safety characteristics

Melting point/freezing point: (1013 hPa) No data available Initial boiling point and boiling (1013 hPa) 100 °C **Decomposition temperature:** (1013 hPa) No data available not applicable Flash point: Auto-ignition temperature : not applicable Lower explosion limit: not applicable not applicable Upper explosion limit: Vapour pressure: (50 °C) No data available Density: (20°C) approx. 1,02 - 1,06 g/cm³ Solvent separation test : (20°C) not applicable Water solubility: (20°C) mixable pH: 8 - 9

Iog P O/W :No data availableFlow time :(20 °C)No data availableViscosity :(20 °C)No data availableKinematic viscosity :(40 °C)No data availableRelative vapour density :(20 °C)No data available

Relative vapour density :(20 °C)

No data available **VOC-value :**max.

9 g/l

Flammable liquids : The product is not ignitable.

Particle Characterics : not applicable

9.2 Other information

The mentioned VOC value refers to the mixture of the product, incl. harder, ready for use. Other physical and chemical data have not been determined.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangers connected by a possible reactivity of the product are known to proper handling and storage.

10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

No dangerous reactions are known if stored and handled the product correctly.

Reaction with peroxides leads to an exothermic reaction due to the violent decomposition of the peroxides.

10.4 Conditions to avoid

Keep away from frost, heat and direct sunlight.

Page: 5 / 10

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Floortec 2C Epoxy Primer 473

Floortec 2K-Epoxi-Primer 473

Revision date: 14.06.2022 **Version (Revision):** 9.0.0 (8.0.0)

Print date : 14.06.2022

10.5 Incompatible materials

No dangerous reaction known. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.6 Hazardous decomposition products

No dangerous decomposition product are known if stored and handled correctly. When exposed to high temperatures or in case of fire hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen, may produced.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity

Acute toxicity:

- Acute oral toxicity: No data available;

- Acute dermal toxicity: No data available;

- Acute inhalation toxicity: No data available.

Acute oral toxicity

Parameter: ATEmix calculated

Exposure route : Oral
Effective dose : not relevant

Parameter: LD50 (M-PHENYLENEBIS(METHYLAMINE); CAS No.: 1477-55-0)

Exposure route: Oral
Species: Rat
Effective dose: 930 mg/kg

Acute dermal toxicity

Parameter: ATEmix calculated

Exposure route : Dermal Effective dose : not relevant

Parameter: LD50 (M-PHENYLENEBIS(METHYLAMINE); CAS No.: 1477-55-0)

Exposure route: Dermal
Species: Rabbit
Effective dose: 2000 mg/kg

Parameter: LD50 (M-PHENYLENEBIS(METHYLAMINE) ; CAS No. : 1477-55-0)

Exposure route: Dermal
Species: Rat
Effective dose: 2000 mg/kg

Acute inhalation toxicity

Parameter: ATEmix calculated
Exposure route: Inhalation (vapour)
Effective dose: not relevant

Corrosion

Irritation:

- Skin contact: Skin irritation.
- Eye contact: Causes serious eye damage.

Respiratory or skin sensitisation

The product contains sensitizing substances, which may produce an allergic reaction (see section 2 and 3).

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

The product is not classified as human germ cell mutagenic, carcinogenic or human reproductive toxic (CMR effects).

STOT-single exposure

No risk expected.

STOT-repeated exposure

No risk expected.

Page: 6 / 10

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Floortec 2C Epoxy Primer 473

Floortec 2K-Epoxi-Primer 473

Revision date : 14.06.2022 **Version (Revision) :** 9.0.0 (8.0.0)

Print date : 14.06.2022

Aspiration hazard

No risk expected.

11.2 Information on other hazards

Endocrine disrupting properties

The product does not contain any substances with endocrine-disrupting properties according to Article 59 Paragraph 1 or substances with endocrine-disrupting properties according to Regulations (EU) 2017/2100 or (EU) 2018/605.

Other adverse effects

This product is unlikely to harm health, given normal and proper handling and hygenic precautions.

Additional information

The product is classified in toxicological terms on the basis of the results of the calculation procedure outlined within the Regulation (EC) No 1272/2008 (CLP-Regulation), listed in sections 2 and 3.

At proper dealing and use as agreed the product does not cause any effects bad for health after our experiences and the information submitted to us.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) toxicity to algae and cyanobacteria

Parameter: EC50 (M-PHENYLENEBIS(METHYLAMINE) ; CAS No. : 1477-55-0)

Species: Daphnia
Effective dose: 10 - 100 mg/l

Exposure time: 48 h

Parameter: EC50 (M-PHENYLENEBIS(METHYLAMINE); CAS No.: 1477-55-0)

Species: Algae
Effective dose: 10 - 100 mg/l
Exposure time: 72 h

12.2 Persistence and degradability

These are not data avaible about the potential of the product concerning his persistency and degradability.

12.3 Bioaccumulative potential

These are not data availble about the bio accumulation potential of the product.

12.4 Mobility in soil

These are not datas availble about the potential of the product concerning his mobility in the ground.

A penetrating into soil, waters and sewage system should be prevented.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

The product does not contain any substances with endocrine-disrupting properties according to Article 59 Paragraph 1 or substances with endocrine-disrupting properties according to Regulations (EU) 2017/2100 or (EU) 2018/605.

12.7 Other adverse effects

Acute or chronic damages to water organisms by the product in the aquatic environment are not expecting.

12.8 Additional ecotoxicological information

Avoid exposing into ground, waterways and drainage.

The classification of the product is based on summation of classified components according to the Regulation (EC) No 1272/2008 (CLP-Regulation). See details in sections 2 and 3.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Directive 2008/98/EC (Waste Framework Directive)

Page: 7 / 10

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Floortec 2C Epoxy Primer 473

Floortec 2K-Epoxi-Primer 473

Revision date: 14.06.2022 **Version (Revision):** 9.0.0 (8.0.0)

Print date : 14.06.2022

Before intended use

Dispose of contents/container to approved disposal company or local collection according to the local regulations. Packaging with not dry uped residues have to droped at official collecting sites. Packaging with dry uped residues can be disposed together with household garbage or building site garbage. Do not empty into waters or drains.

Waste codes/waste designations according to EWC/AVV

For the product:

Disposal-definition No.: $08\ 01\ 11^*$ - Paint and varnish waste which contains organic solvents or other dangerous substances.

After intended use

Only empty packaging can be transfered to recycling. Uncleaned packaging must be disposed of in the same manner as the medium.

Waste codes/waste designations according to EWC/AVV

For the uncleaned packaging:

Disposal-definition No.: 15 01 10 * packings which contain dangerous substances or are polluted by dangerous substances.

SECTION 14: Transport information

14.1 UN number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant because the product in type of delivery does not transport in bulks according to the Internationa Maritime Organization (IMO) instruments.

SECTION 15: Regulatory information

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

EU legislation

Authorisations and/or restrictions on use

Restrictions on use

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions):

Use restriction according to REACH annex XVII, no.: 3

National regulations

Water hazard class

Classification according to AwSV - Class : 1 (Slightly hazardous to water)

Additional information

The product is not classified as a solid substance according to the criteria of the Penetrometer test (ADR, part 2, section 2.3.4) and also fulfils not the criteria for solid substances according to the TRwS 779 number 2.1.1. Maternity regulations and Young Persons Employment Act are to take into account.

15.2 Chemical Safety Assessment

Page: 8 / 10

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name: Floortec 2C Epoxy Primer 473

Floortec 2K-Epoxi-Primer 473

Revision date: 14.06.2022 Version (Revision): 9.0.0 (8.0.0)

Print date: 14.06.2022

A chemical safety assessments was not carried out.

SECTION 16: Other information

16.1 Indication of changes

16.2 Abbreviations and acronyms

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des merchandises dangereuses par route)

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert - Germany) AOX: Adsorbable Organic halogen compounds

ATEmix: Calculated acute toxicity estimate of mixture

BCF: Bio-Concentration Factor CAS: Chemical Abstract Service

CLP: Classification, Labelling and Packaging

CMR: Substances classified as Carcinogenic, Mutagenic or toxic for Reproduction

CSR: Chemical Safety Report DNEL: Derived No Effect Level EC: European Commission EC50: Effective Concentration 50%

ECHA: European Chemical Agency EEC: European Economic Community

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

EWC: European Waste Catalogue

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

IATA: International Air Transport Association ICAO: International Civil Aviation Organization

IC50: Inhibition Concentration 50%

IMDG Code: International Maritime Dangerous Goods Code

IMO: International Maritime Organization

LC50: Lethal concentration 50%

LD50: Lethal Dose 50%

LOAEL: Lowest Observed Adverse Effect Level

LOEL: Lowest observable effect level

MAK: Treshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG) MARPOL: Convention for the Preventation of Marine Pollution from Ships

MVZ: molar ratio n.a.: Not applicable n.d.: Not determined n.r.: Not relevant NLP: No Longer Polymers

NOAEC: No Observed Adverse Effect Concentration

NOAEL: No Observed Adverse Effect Level NOEC: No Observed Effect Concentration

NOEL: No Observed Effect Level OEL: Occupational Exposure Limit PBT: Persistent, bioaccumulative, toxic PNEC: Predicted No Effect Concentration RCP: Reciprocal calculation procedure

REACH: Registration, Evaluation and Authorization of Chemical)

RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant

le transport de marchandises dangereuses par chemin de fer)

STEL: Short-term Exposure Limit SVHC: Substance of Very High Concern

TLV - TWA: Threshold Limit Value - Time Weighed Average

Page: 9 / 10

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Floortec 2C Epoxy Primer 473

Floortec 2K-Epoxi-Primer 473

Revision date: 14.06.2022 **Version (Revision):** 9.0.0 (8.0.0)

Print date : 14.06.2022

VOC: Volatile Organic Compounds

vPvB: Very persistent, very bioaccumulative.

16.3 Key literature references and sources for data

None

^{16.4} Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The evaluation of hazard information of the product was carried out in accordance to Annex I of the REGULATION (EC) No 1272/2008 (CLP Regulation).

16.5 Relevant H- and EUH-phrases (Number and full text)

H302 Harmful if swallowed. H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

16.6 Training advice

None

16.7 Additional information

None

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.

Page: 10 / 10

according to Regulation (EC) No. 1907/2006 (REACH)



Floortec Epoxy Hardener 849 Trade name:

Floortec Epoxi-Härter 849

Revision date: 18.05.2022 Version (Revision): 17.0.0 (16.0.0)

Print date: 18.05.2022

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

1.1 Product identifier

Floortec Epoxy Hardener 849 Floortec Epoxi-Härter 849

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

Relevant identified uses

Products Category [PC]

PC 9 - Coatings and paints, fillers, putties, thinners.

Uses advised against

There are no information about relevant identified uses of the product according to the Regulation (EC) No. 1907/2006 (REACH-Regulation), which are advised against. For using the product observe the information in the Technical data sheet of the product.

1.3 Details of the supplier of the safety data sheet

Supplier

Brillux GmbH & Co KG www.brillux.de

Street: Weseler Straße 401

Postal code/City: D - 48163 Münster

Telephone: +49 (0)251-7188-0 **Telefax:** +49 (0)251-7188-280 Information contact:

Electronic mail address of the well-informed person for safety data sheets:sdb@brillux.de

1.4 Emergency telephone number

Outside the business hours (9 a.m. to 5 p.m.):

(Giftinformationszentrum-Nord, Göttingen, consultation in german or english language)

Telephone: +49 (0)551-19240.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Skin Irrit. 2; H315 - Skin corrosion/irritation: Category 2; Causes skin irritation.

Eye Irrit. 2; H319 - Serious eye damage/eye irritation: Category 2; Causes serious eye irritation.

Skin Sens. 1; H317 - Skin sensitisation: Category 1; May cause an allergic skin reaction.

Aquatic Chronic 2; H411 - Hazardous to the aquatic environment: Chronic 2; Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms





Environment (GHS09) · Exclamation mark (GHS07)

Signal word

Warning

Hazard components for labelling

Page: 1 / 14

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Floortec Epoxy Hardener 849

Floortec Epoxi-Härter 849

Revision date: 18.05.2022 **Version (Revision):** 17.0.0 (16.0.0)

Print date : 18.05.2022

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BIS OXIRANE; CAS No.: 1675-54-3

P-TERT-BUTYLPHENYL-1-(2,3-EPOXY)PROPYLETHER; CAS No.: 3101-60-8

REACTION MASS OF 2,2'-[METHYLENEBIS(4,1-PHENYLENEOXY METHYLENE)]DIOXIRANE AND 2-({2-[4-(OXIRAN-2-

YLMETHOXY) BENZYĹ]PHENOXY}METHYL)ÓXIRANE AND 2,2'-[METHYLENEBÍS(2,1-

PHENYLENEÓXYMETHYLENE)]DIOXIRAN; CAS No.: 9003-36-5

Hazard statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.

P262 Do not get in eyes, on skin, or on clothing.

P273 Avoid release to the environment.

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water

[or shower].

P391 Collect spillage.

P501 Dispose of contents/container to approved disposal company or local collection.

Special rules for supplemental label elements for certain mixtures

EUH205 Contains epoxy constituents. May produce an allergic reaction.

2.3 Other hazards

The product does not contain any substances with endocrine-disrupting properties according to Article 59 Paragraph 1 or substances with endocrine-disrupting properties according to Regulations (EU) 2017/2100 or (EU) 2018/605. The product does not contain any substances, which fulfil the criteria for PBT or vPvB in accordance with the Annex XIII of the Regulation (EC) No 1907/2006 (REACH-Regulation).

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description

Hardener based on epoxy resins.

Hazardous ingredients

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BIS OXIRANE; REACH No.: 01-2119456619-26; EC

No.: 216-823-5; CAS No.: 1675-54-3

Weight fraction : \geq 65 - < 70 %

Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 Specific Conc. Limits : Eye Irrit. 2 ; H319: $C \ge 5$ % • Skin Irrit. 2 ; H315: $C \ge 5$ %

P-TERT-BUTYLPHENYL-1-(2,3-EPOXY)PROPYLETHER; REACH No.: 01-2119959496-2; EC No.: 221-453-2; CAS No.: 3101-

60-8

Weight fraction : \geq 15 - < 20 %

Classification 1272/2008 [CLP]: Skin Sens. 1; H317 Aquatic Chronic 2; H411

REACTION MASS OF 2,2'-[METHYLENEBIS(4,1-PHENYLENEOXY METHYLENE)]DIOXIRANE AND 2-({2-[4-(OXIRAN-2-

YLMETHOXY) BENZYL]PHENOXY}METHYL)OXIRANE AND 2,2'-[METHYLENEBIS(2,1-

PHENYLENEOXYMETHYLENE)]DIOXIRAN; REACH No.: 01-2119454392-40; EC No.: 701-263-0; CAS No.: 9003-36-5

Weight fraction : \geq 15 - < 20 %

Classification 1272/2008 [CLP]: Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411 EUH205

Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

Page: 2 / 14

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Floortec Epoxy Hardener 849 Floortec Epoxi-Härter 849

Revision date: 18.05.2022 **Version (Revision):** 17.0.0 (16.0.0)

Print date : 18.05.2022

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical attention. Immediately remove all contaminated clothing. In case of unconsciousness: lay on side - call a doctor. If unconscious no administration by mouth, storage in recovery position and seek medical advice. If medical advice is needed, have product container or label at hand.

Following inhalation

When symptoms persists, take the casualty into the fresh air and keep warm. Irregular breathing/no breathing: artificial respiration.

In case of skin contact

Take off immediately all contaminated clothes. Wash away with soap and water and rinse. Do NOT use solvents or thinners. If skin irritation continues, consult a doctor.

After eye contact

Remove contact lenses, keep eyelids open. Rinse open eye immediately with plenty of running water. Seek medical adivce if complaint continues.

Following ingestion

Drink water in small draught. Keep at rest. Do not induce vomiting. When swallowed immediately consult and show packing or label to physician.

4.2 Most important symptoms and effects, both acute and delayed

Potential symptoms: Skin and eye iriitation are possible. Allergic symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguishing media

In case of fire: Do not use waterjet for extinction.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

5.3 Advice for firefighters

Special protective equipment for firefighters

When extinguishing fires, use breathing apparatus with an independent source of air.

5.4 Additional information

Cool endangered containers with water in case of fire. Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep no protective persons away, personal should wear protective clothings. Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in

Page: 3 / 14

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Floortec Epoxy Hardener 849

Floortec Epoxi-Härter 849

Revision date: 18.05.2022 **Version (Revision):** 17.0.0 (16.0.0)

Print date : 18.05.2022

accordance with local regulations. Holding polluted washing water back and disposing of duly.

6.3 Methods and material for containment and cleaning up

For cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). The areas concerned cleaning with a customary water based cleaning agent, not using organic solvents if possible.

6.4 Reference to other sections

See Section 7 for information on safe handling.

You find information about the safety equipment of persons in the section 8,

information about the refuse disposal in section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

No special measures necessary in the case of regulation storage and handling. Ensure a good ventilation in room and working area. For personal protection see Section 8. Avoid contact with skin and eyes. Read label before use.

Measures to prevent fire

Cool endangered containers with water.

Advices on general occupational hygiene

While working do not eat , drink or smoke. Wash hands and face before breaks and after work and take a shower if necessary. Immediately remove all contaminated clothing.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly in a dry, cool and good ventilated place. Do not store the product in lounge room. Keep only in the original container. Protect against frost. Keep out of the reach of children.

Hints on joint storage

Do not store together with oxidising substances. Store away from foodstuffs.

Storage class (TRGS 510): 10

Further information on storage conditions

Keep container tightly sealed. Store at 5°-35°C. Containers should be kept dry and sealed.

7.3 Specific end use(s)

For using the product observe the information in the Technical data sheet of the product.

Industrial sector specific solutions

GISCODE: Product code in accordance with GISBAU (hazardous materials information system of the German professional associations of the building and construction industry) for epoxy resin coating cloths (GISCODE): RE20.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL-/PNEC-values

DNEL/DMEL

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BIS OXIRANE; CAS No.: 1675-54-3

Limit value type : DNEL Consumer (systemic)

Exposure route:

Cral
Exposure frequency:

Limit value:

Assessment factor:

Oral

Long-term

0,5 mg/kg

1 D

Limit value type : DNEL Consumer (systemic)

Exposure route : Dermal

Page: 4 / 14

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Floortec Epoxy Hardener 849 Floortec Epoxi-Härter 849

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 Revision date:
 18.05.2022
 Version (Revision):
 17.0.0 (16.0.0)

 Print date:
 18.05.2022

Exposure frequency: Long-term
Limit value: 0,0893 mg/kg

Assessment factor: 1 D

Limit value type : DNEL Consumer (systemic)

 $\begin{array}{lll} \mbox{Exposure route}: & \mbox{Inhalation} \\ \mbox{Exposure frequency}: & \mbox{Long-term} \\ \mbox{Limit value}: & 0,87 \ \mbox{mg/m}^3 \\ \end{array}$

Limit value type : DNEL worker (systemic)

Exposure route: Dermal
Exposure frequency: Long-term
Limit value: 0,75 mg/kg

Assessment factor: 1 D

Limit value type : DNEL worker (systemic)

Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 4,93 mg/m³

P-TERT-BUTYLPHENYL-1-(2,3-EPOXY)PROPYLETHER; CAS No.: 3101-60-8

Limit value type : DNEL Consumer (local)

Exposure route : Dermal
Exposure frequency : Short-term
Limit value : 0,00095 mg/cm²
Limit value type : DNEL Consumer (local)

Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 0,00095 mg/cm²
Limit value type : DNEL Consumer (local)

 $\begin{array}{lll} \mbox{Exposure route}: & \mbox{Inhalation} \\ \mbox{Exposure frequency}: & \mbox{Long-term} \\ \mbox{Limit value}: & 11,7 \mbox{ mg/m}^3 \end{array}$

Limit value type : DNEL Consumer (systemic)

Exposure route: Dermal
Exposure frequency: Short-term
Limit value: 3,3 mg/kg
Assessment factor: 1 D

Limit value type : DNEL Consumer (systemic)

Exposure route: Dermal
Exposure frequency: Long-term
Limit value: 3,3 mg/kg
Assessment factor: 1 D

Limit value type : DNEL Consumer (systemic)

Exposure route: Inhalation
Exposure frequency: Long-term
Limit value: 11,7 mg/m³
Limit value type: DNEL worker (local)

Exposure route : Dermal
Exposure frequency : Short-term
Limit value : 0,0016 mg/cm²
Limit value type : DNEL worker (local)

Exposure route: Dermal
Exposure frequency: Long-term
Limit value: 0,0016 mg/cm²
Limit value type: DNEL worker (local)

 $\begin{array}{lll} \mbox{Exposure route}: & \mbox{Inhalation} \\ \mbox{Exposure frequency}: & \mbox{Short-term} \\ \mbox{Limit value}: & \mbox{19,6 mg/m}^3 \\ \end{array}$

Page: 5 / 14

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name: Floortec Epoxy Hardener 849

Floortec Epoxi-Härter 849

Revision date: 18.05.2022 Version (Revision): 17.0.0 (16.0.0)

Print date: 18.05.2022

> Limit value type: DNEL worker (local)

Exposure route: Inhalation Exposure frequency: Long-term 19,6 mg/m³ Limit value:

Limit value type : DNEL worker (systemic)

Exposure route: Dermal Exposure frequency: Short-term Limit value: 5,6 mg/kg Assessment factor: 1 D

Limit value type: DNEL worker (systemic)

Exposure route: Dermal Exposure frequency: Long-term Limit value: 5,6 mg/kg Assessment factor: 1 D

Limit value type: DNEL worker (systemic)

Exposure route: Inhalation Short-term Exposure frequency: Limit value: 19,6 mg/m³

Limit value type: DNEL worker (systemic)

Exposure route: Inhalation Exposure frequency: Long-term Limit value: 19,6 mg/m³

PNEC

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BIS OXIRANE; CAS No.: 1675-54-3

Limit value type: PNEC (Aquatic, freshwater) Water (Including sewage plant) Exposure route:

Limit value: 0,006 mg/l

PNEC (Aquatic, marine water) Limit value type: Exposure route: Water (Including sewage plant)

Limit value: 0,001 mg/l

Limit value type: PNEC (Sediment, freshwater) Exposure route: Water (Including sewage plant)

Limit value: 0,341 mg/kg

PNEC (Sediment, marine water) Limit value type: Water (Including sewage plant) Exposure route:

Limit value: 0,034 mg/kg Limit value type: PNEC (Soil) Exposure route: Soil

Limit value: 0,065 mg/kg dw

Limit value type: PNEC (Secondary poisoning)

Limit value: 11 mg/kg food

Limit value type: PNEC (Sewage treatment plant) Exposure route: Water (Including sewage plant)

Limit value: 10 mg/l

P-TERT-BUTYLPHENYL-1-(2,3-EPOXY)PROPYLETHER; CAS No.: 3101-60-8

Limit value type : PNEC (Aquatic, freshwater) Exposure route: Water (Including sewage plant)

0,0075 mg/l Limit value:

PNEC Intermittierende Einleitung Limit value type: Exposure route: Water (Including sewage plant)

0,075 mg/l Limit value:

Limit value type: PNEC (Aquatic, marine water) Water (Including sewage plant) Exposure route:

Limit value: 0,00075 mg/l

PNEC (Sediment, freshwater) Limit value type :

Page: 6 / 14

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Floortec Epoxy Hardener 849

Floortec Epoxi-Härter 849

Revision date: 18.05.2022 **Version (Revision):** 17.0.0 (16.0.0)

Print date : 18.05.2022

Exposure route: Soil

Limit value: 33,54 mg/kg

Limit value type : PNEC (Sediment, marine water)

Exposure route : Soil
Limit value : 3,354 mg/kg
Limit value type : PNEC (Soil)
Exposure route : Air

Limit value : 11,4 mg/kg dw

Limit value type: PNEC (Sewage treatment plant)
Exposure route: Water (Including sewage plant)

Limit value : 100 mg/l

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Observe data available of section 7.

Personal protection equipment

Eye/face protection

Use tightly fitting safety glasses.

Skin protection

Hand protection

At use as agreed a protective gloves from nitrile rubber, tested according to EN 374, with a material thickness 0.38 mm has to be used. Notes of the manufacturer have to be taken into account. Penetration time of the glove material: > = 8 h.

By longer or repeated contact the penetration times can be considerably shorter. The protective gloves should replaced after the first wear out or a damage of the gloves. Gloves of cotton should be used under the gloves of polychloropren or nitrile rubber. After washing hands replace lost skin fat by fat containing skin creams.

Body protection

Using protective clothing.

Respiratory protection

Breathing protection equipment is not required in good ventilated places. Use combination filter A1-P2 in unclear conditions and in confined spaces.

Do not inhale the vapour.

General information

Avoid contact with eyes and skin. Immediately remove all contaminated clothing. Do not eat or drink during work - no smoking. Wash hands before breaks and after work. Ensure a good ventilation in room and working area. Do not breathe vapour.

Environmental exposure controls

The product should not reach waters and the ground. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: Liquid.

Colour: conformable to product designation.

Odour

Poor, characteristic.

Safety characteristics

Melting point/freezing point: (1013 hPa) No data available

Page: 7 / 14

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Floortec Epoxy Hardener 849

Floortec Epoxi-Härter 849

Revision date: 18.05.2022 **Version (Revision):** 17.0.0 (16.0.0)

Print date : 18.05.2022

Initial boiling point and boiling (1013 hPa) > 200 °C range :

Decomposition temperature : (1013 hPa) No data available **Flash point :** 135 $^{\circ}$ C

 Auto-ignition temperature :
 >
 290
 °C

 Lower explosion limit :
 No data available

 Upper explosion limit :
 No data available

 Upper explosion limit :
 No data available

 Vapour pressure :
 (50 °C)
 No data available

Density: ($20 \, ^{\circ}\text{C}$) approx. $1,13 \, \text{g/cm}^3$

log P O/W: No data available

Flow time: (20 °C) No data available DIN-cup 4 mm

Viscosity: (20 °C) 1450 - 1900 mPa*s

Kinematic viscosity : $(40 \, ^{\circ}\text{C})$ No data available **Relative vapour density :** $(20 \, ^{\circ}\text{C})$ No data available

VOC-value : max. 9 g/l

Flammable liquids : The product is ignitable.

Particle Characterics : not applicable

9.2 Other information

The mentioned VOC value refers to the mixture of the product, incl. harder, ready for use. Other physical and chemical data have not been determined.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangers connected by a possible reactivity of the product are known to proper handling and storage.

10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

No dangerous reactions are known if stored and handled the product correctly.

Exothermic polymerization.

Heavy reactions with bases and other organic substances like alcohols and amines.

10.4 Conditions to avoid

Keep away from frost, heat and direct sunlight.

10.5 Incompatible materials

No dangerous reaction known.

10.6 Hazardous decomposition products

No dangerous decomposition product are known if stored and handled correctly. When exposed to high temperatures or in case of fire hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen, may produced.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity

Acute toxicity:

- Acute oral toxicity: No data available;
- Acute dermal toxicity: No data available;
- Acute inhalation toxicity: No data available.

Acute oral toxicity

Parameter: ATEmix calculated

Page: 8 / 14

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Floortec Epoxy Hardener 849 Floortec Epoxi-Härter 849

Revision date: 18.05.2022 **Version (Revision):** 17.0.0 (16.0.0)

Print date : 18.05.2022

Exposure route : Oral
Effective dose : not relevant

Parameter: LD50 (2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BIS

OXIRANE; CAS No.: 1675-54-3)

Exposure route : Oral Species : Rat

Effective dose : > 5000 mg/kg

Parameter: LD50 (P-TERT-BUTYLPHENYL-1-(2,3-EPOXY)PROPYLETHER; CAS No.: 3101-60-8)

Exposure route: Oral Species: Rat

Effective dose : > 5000 mg/kg

Parameter: LD50 (REACTION MASS OF 2,2'-[METHYLENEBIS(4,1-PHENYLENEOXY

METHYLENE)]DIOXIRANE AND 2-({2-[4-(OXIRAN-2-YLMETHOXY) BENZYL]PHENOXY}METHYL)OXIRANE AND 2,2'-[METHYLENEBIS(2,1-PHENYLENEOXYMETHYLENE)]DIOXIRAN; CAS No.: 9003-36-5)

Exposure route: Oral Species: Rat

Effective dose: > 9999 mg/kg

Acute dermal toxicity

Parameter: ATEmix calculated

Exposure route : Dermal Effective dose : not relevant

Parameter: LD50 (2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BIS

OXIRANE; CAS No.: 1675-54-3)

Exposure route: Dermal
Species: Rabbit
Effective dose: > 5000 mg/kg

Parameter: LD50 (REACTION MASS OF 2,2'-[METHYLENEBIS(4,1-PHENYLENEOXY

METHYLENE)]DIOXIRANE AND 2-({2-[4-(OXIRAN-2-YLMETHOXY) BENZYL]PHENOXY}METHYL)OXIRANE AND 2,2'-[METHYLENEBIS(2,1-PHENYLENEOXYMETHYLENE)]DIOXIRAN; CAS No.: 9003-36-5)

Exposure route: Dermal
Species: Rabbit
Effective dose: > 2000 mg/kg

Parameter: LD50 (P-TERT-BUTYLPHENYL-1-(2,3-EPOXY)PROPYLETHER; CAS No.: 3101-60-8)

Exposure route : Dermal Species : Rat

Effective dose : > 2000 mg/kg

Acute inhalation toxicity

Parameter: ATEmix calculated
Exposure route: Inhalation (vapour)
Effective dose: not relevant

Parameter: LC50 (P-TERT-BUTYLPHENYL-1-(2,3-EPOXY)PROPYLETHER; CAS No.: 3101-60-8)

Exposure route: Inhalation
Species: Rat
Effective dose: 3466 mg/l
Exposure time: 4 h

Corrosion

Irritation:

- Skin contact: Skin irritation.

- Eye contact: Causes serious eye irritation.

Respiratory or skin sensitisation

The product is labeled as skin sensitizing.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

The product is not classified as human germ cell mutagenic, carcinogenic or human reproductive toxic (CMR effects).

Page: 9 / 14

according to Regulation (EC) No. 1907/2006 (REACH)



Floortec Epoxy Hardener 849

Floortec Epoxi-Härter 849

Revision date: 18.05.2022 Version (Revision): 17.0.0 (16.0.0)

Print date: 18.05.2022

STOT-single exposure

No risk expected.

STOT-repeated exposure

No risk expected.

Aspiration hazard

No risk expected.

11.2 Information on other hazards

Endocrine disrupting properties

The product does not contain any substances with endocrine-disrupting properties according to Article 59 Paragraph 1 or substances with endocrine-disrupting properties according to Regulations (EU) 2017/2100 or (EU) 2018/605.

Other adverse effects

This product is unlikely to harm health, given normal and proper handling and hygenic precautions.

Additional information

The product is classified in toxicological terms on the basis of the results of the calculation procedure outlined within the Regulation (EC) No 1272/2008 (CLP-Regualtion), listed in sections 2 and 3.

At proper dealing and use as agreed the product does not cause any effects bad for health after our experiences and the information submitted to us.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

LC50 (2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BIS Parameter:

OXIRANE; CAS No.: 1675-54-3)

Species: Acute (short-term) fish toxicity

Evaluation parameter: rainbow trout Effective dose: 2 mg/l 96 h Exposure time: Acute (short-term) toxicity to crustacea

Parameter: EC50 (2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BIS

OXIRANE; CAS No.: 1675-54-3)

Species: Daphnia magna (Big water flea)

Effective dose: 1,8 mg/l Exposure time: 48 h

Acute (short-term) toxicity to algae and cyanobacteria

EC50 (2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BIS Parameter:

OXIRANE; CAS No.: 1675-54-3)

Species: Acute (short-term) algae toxicity

Effective dose: 11 ma/l Exposure time:

12.2 Persistence and degradability

These are not data avaible about the potential of the product concerning his persistency and degradability.

12.3 Bioaccumulative potential

These are not data availble about the bio accumulation potential of the product.

12.4 Mobility in soil

These are not datas availble about the potential of the product concerning his mobility in the ground. A penetrating into soil, waters and sewage system should be prevented.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

Page: 10 / 14

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Floortec Epoxy Hardener 849 Floortec Epoxi-Härter 849

Revision date: 18.05.2022 **Version (Revision):** 17.0.0 (16.0.0)

Print date: 18.05.2022

The product does not contain any substances with endocrine-disrupting properties according to Article 59 Paragraph 1 or substances with endocrine-disrupting properties according to Regulations (EU) 2017/2100 or (EU) 2018/605.

12.7 Other adverse effects

Toxic to aquatic life. May cause long-term adverse effects in the aquatic environment.

12.8 Additional ecotoxicological information

The classification of the product is based on summation of classified components according to the Regulation (EC) No 1272/2008 (CLP-Regulation). See details in sections 2 and 3. Avoid exposing into ground, waterways and drainage.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Directive 2008/98/EC (Waste Framework Directive)

Before intended use

Dispose of contents/container to approved disposal company or local collection according to the local regulations. Packaging with not dry uped residues have to droped at official collecting sites. Packaging with dry uped residues can be disposed together with household garbage or building site garbage. Do not empty into waters or drains.

Waste codes/waste designations according to EWC/AVV

For the product:

Disposal-definition No.: 08 01 11* - Paint and varnish waste which contains organic solvents or other dangerous substances.

After intended use

Only empty packaging can be transferred to recycling. Uncleaned packaging must be disposed of in the same manner as the medium.

Waste codes/waste designations according to EWC/AVV

For the uncleaned packaging:

Disposal-definition No.: $15\ 01\ 10\ *$ packings which contain dangerous substances or are polluted by dangerous substances.

SECTION 14: Transport information

14.1 UN number

UN 3082

14.2 UN proper shipping name

Land transport (ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN)

Sea transport (IMDG)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN)

Air transport (ICAO-TI / IATA-DGR)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN)

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es): 9
Classification code: M6
Hazard identification number (Kemler
No.): 90
Tunnel restriction code: -

Special provisions : LQ $5 \cdot E \cdot 1 \cdot ADR : -(SP \cdot 375 \le 5 \cdot 1/kg)$

Hazard label(s): 9 / N

Sea transport (IMDG)

Class(es): 9 **EmS-No.:** F-A / S-F

Page: 11 / 14

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Floortec Epoxy Hardener 849

Floortec Epoxi-Härter 849

Revision date: 18.05.2022 **Version (Revision):** 17.0.0 (16.0.0)

Print date : 18.05.2022

Special provisions : LQ $5 \cdot E1 \cdot IMDG : -(SP 2.10.2.7 \le 5 \cdot |/kg)$

Hazard label(s): 9 / N

Air transport (ICAO-TI / IATA-DGR)

Class(es):

Special provisions : E 1 · IATA : - (SP A197 \leq 5 l/kg)

Hazard label(s): 9 / N

14.4 Packing group

Ш

14.5 Environmental hazards

Land transport (ADR/RID): Yes **Sea transport (IMDG):** Yes (P)

Air transport (ICAO-TI / IATA-DGR): Yes

14.6 Special precautions for user

None

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant because the product in type of delivery does not transport in bulks according to the Internationa Maritime Organization (IMO) instruments.

14.8 Additional information

The product when carried in packaging of max. 5 l or 5 kg, are not subject to any other provisions of ADR according to the amendment 375.

According to the transport regulations the product is labbeling with the label 9 as also with the symbol "Fish and tree" and in packages > 5 ltr or > 5 kg.

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture $^{15.1}$

EU legislation

Authorisations and/or restrictions on use

Restrictions on use

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions):

Use restriction according to REACH annex XVII, no.: 3

Other regulations (EU)

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds

Product sub-category and VOC limiting values in accordance with appendix II, letter A of the guideline:

Category j, type WB;

VOC limiting value of the category for 2010: 140 g/l.

This product contains max. 9 g/I VOC.

The mentioned VOC value refers to the mixture of the product ready for use of tribe varnish and harder.

National regulations

Water hazard class

Classification according to AwSV - Class: 2 (Obviously hazardous to water)

Additional information

The product is classified as a solid substance according to the criteria of the Penetrometer test (ADR, part 2, section 2.3.4) and also fulfils the criteria for solid substances according to the TRwS 779 number 2.1.1.

Maternity regulations and Young Persons Employment Act are to take into account.

15.2 Chemical Safety Assessment

A chemical safety assessments was not carried out.

SECTION 16: Other information

Page: 12 / 14

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name: Floortec Epoxy Hardener 849

Floortec Epoxi-Härter 849

Revision date: 18.05.2022 Version (Revision): 17.0.0 (16.0.0)

Print date: 18.05.2022

16.1 Indication of changes

02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling 15. Water hazard

16.2 Abbreviations and acronyms

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des merchandises dangereuses par route)

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert - Germany) AOX: Adsorbable Organic halogen compounds

ATEmix: Calculated acute toxicity estimate of mixture

BCF: Bio-Concentration Factor CAS: Chemical Abstract Service

CLP: Classification, Labelling and Packaging

CMR: Substances classified as Carcinogenic, Mutagenic or toxic for Reproduction

CSR: Chemical Safety Report DNEL: Derived No Effect Level EC: European Commission EC50: Effective Concentration 50% ECHA: European Chemical Agency EEC: European Economic Community

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

EWC: European Waste Catalogue

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

IATA: International Air Transport Association ICAO: International Civil Aviation Organization

IC50: Inhibition Concentration 50%

IMDG Code: International Maritime Dangerous Goods Code

IMO: International Maritime Organization

LC50: Lethal concentration 50%

LD50: Lethal Dose 50%

LOAEL: Lowest Observed Adverse Effect Level

LOEL: Lowest observable effect level

MAK: Treshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG)

MARPOL: Convention for the Preventation of Marine Pollution from Ships

MVZ: molar ratio n.a.: Not applicable n.d.: Not determined n.r.: Not relevant NLP: No Longer Polymers

NOAEC: No Observed Adverse Effect Concentration NOAEL: No Observed Adverse Effect Level

NOEC: No Observed Effect Concentration NOEL: No Observed Effect Level OEL: Occupational Exposure Limit PBT: Persistent, bioaccumulative, toxic

PNEC: Predicted No Effect Concentration RCP: Reciprocal calculation procedure

REACH: Registration, Evaluation and Authorization of Chemical)

RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant

le transport de marchandises dangereuses par chemin de fer)

STEL: Short-term Exposure Limit SVHC: Substance of Very High Concern

TLV - TWA: Threshold Limit Value - Time Weighed Average

VOC: Volatile Organic Compounds

vPvB: Very persistent, very bioaccumulative.

16.3 Key literature references and sources for data

Page: 13 / 14

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None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The evaluation of hazard information of the product was carried out in accordance to Annex I of the REGULATION (EC) No 1272/2008 (CLP Regulation).

16.5 Relevant H- and EUH-phrases (Number and full text)

Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

16.6 Training advice

None

16.7 Additional information

None

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.

Page: 14 / 14