

Safety Data Sheet

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



Trade name : Floortec 2C Epoxy Thick Layer 894
Floortec 2K-Epoxi-Dickschicht 894

Revision date : 04.10.2023

Print date : 04.10.2023

Version (Revision) : 4.0.0 (3.0.0)

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

1.1 Product identifier

Floortec 2C Epoxy Thick Layer 894
Floortec 2K-Epoxi-Dickschicht 894

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

The product may be used only in professional or industriell applications. 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

BIS(4-(2,3-EPOXYPROPOXY)PHENYL) PROPANE ; CAS No. : 1675-54-3

Safety Data Sheet

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



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Floortec 2K-Epoxi-Dickschicht 894

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OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL]DERIVATES ; CAS No. : 68609-97-2
BIS (4,4'-GLYCIDYLOXYPHENYL) METHANE ; CAS No. : 9003-36-5
P-TERT-BUTYLPHENYL-1-(2,3-EPOXY)PROPYLETHER ; CAS No. : 3101-60-8

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.
P261 Avoid breathing vapours.
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

Mixture based on components, which are called following, and other components.

Hazardous ingredients

BIS(4-(2,3-EPOXYPROPOXY)PHENYL)PROPANE ; REACH No. : 01-2119456619-26 ; EC No. : 216-823-5; CAS No. : 1675-54-3
Weight fraction : $\geq 25 - < 40$ %
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 Aquatic Chronic 2 ; H411

Specific Conc. Limits : Eye Irrit. 2 ; H319: C ≥ 5 % • Skin Irrit. 2 ; H315: C ≥ 5 %

BIS (4,4'-GLYCIDYLOXYPHENYL) METHANE ; REACH No. : 01-2119454392-40 ; EC No. : 500-006-8; CAS No. : 9003-36-5
Weight fraction : $\geq 5 - < 10$ %
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Chronic 2 ; H411 EUH205

OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL]DERIVATES ; REACH No. : 01-2119485289-22 ; EC No. : 271-846-8; CAS No. : 68609-97-2
Weight fraction : $\geq 2,5 - < 5$ %
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317

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 : $\geq 1 - < 2,5$ %
Classification 1272/2008 [CLP] : Skin Sens. 1 ; H317 Aquatic Chronic 2 ; H411

BENZYL ALCOHOL ; REACH No. : 01-2119492630-38 ; EC No. : 202-859-9; CAS No. : 100-51-6

Safety Data Sheet

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



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Weight fraction : $\geq 1 - < 2,5 \%$
Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Acute Tox. 4 ; H332 Eye Irrit. 2 ; H319

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

Immediately remove all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. 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 advice 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

Causes severe skin burns and eye damage.
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

In case of fire: Use alcohol resistant foam, CO₂, powders or water spray for extinction.

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

At a fire caused by the product a breathing apparatus with an independent source of air is to have ready and to use if necessary for the firefighting.

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

Safety Data Sheet

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6.1 Personal precautions, protective equipment and emergency procedures

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

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).

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

Ensure a good ventilation in room and working area. For personal protection see Section 8. By mixing the components slowly, the container have to cover the product container to reduce the splashing danger. Working carefully and slowly when decanting the mixture in another container. Avoid contact with skin and eyes. Read label before use.

Measures to prevent fire

No special precautionary measure necessary. 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. Do not get in eyes, on skin, or on 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

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. 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): RE30.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

BENZYL ALCOHOL ; CAS No. : 100-51-6

Limit value type (country of origin) : TRGS 900 (D)

Safety Data Sheet

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Limit value : 5 ppm / 22 mg/m³
Peak limitation : 2(I)
Remark : H, Y
Version : 23.06.2022

DNEL-/PNEC-values

DNEL/DMEL

BIS(4-(2,3-EPOXYPROPOXY)PHENYL)PROPANE ; CAS No. : 1675-54-3

Limit value type : DNEL Consumer (systemic)

Exposure route : Oral

Exposure frequency : Long-term

Limit value : 0,5 mg/kg

Assessment factor : 1 D

Limit value type : DNEL Consumer (systemic)

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : 0,0893 mg/kg

Assessment factor : 1 D

Limit value type : DNEL Consumer (systemic)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 0,87 mg/m³

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

OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL]DERIVATES ; CAS No. : 68609-97-2

Limit value type : DNEL Consumer (systemic)

Exposure route : Oral

Limit value : 0,5 mg/kg

Limit value type : DNEL Consumer (systemic)

Exposure route : Dermal

Limit value : 0,5 mg/kg

Limit value type : DNEL Consumer (systemic)

Exposure route : Inhalation

Limit value : 0,87 mg/m³

Limit value type : DNEL worker (systemic)

Exposure route : Dermal

Limit value : 1 mg/kg

Limit value type : DNEL worker (systemic)

Exposure route : Inhalation

Limit value : 3,6 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

Safety Data Sheet

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



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Floortec 2K-Epoxi-Dickschicht 894

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Limit value : 0,00095 mg/cm²
Limit value type : DNEL Consumer (local)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 11,7 mg/m³
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)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 19,6 mg/m³
Limit value type : DNEL worker (local)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 19,6 mg/m³
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
Exposure frequency : Short-term
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
BENZYL ALCOHOL ; CAS No. : 100-51-6
Limit value type : DNEL Consumer (systemic)

Safety Data Sheet

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



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Exposure route : Oral
Exposure frequency : Short-term
Limit value : 20 mg/kg
Limit value type : DNEL Consumer (systemic)

Exposure route : Dermal
Exposure frequency : Short-term
Limit value : 20 mg/kg
Limit value type : DNEL Consumer (systemic)

Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 27 mg/m³
Limit value type : DNEL Consumer (systemic)

Exposure route : Oral
Exposure frequency : Long-term
Limit value : 4 mg/kg
Limit value type : DNEL Consumer (systemic)

Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 4 mg/kg
Limit value type : DNEL Consumer (systemic)

Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 5,4 mg/m³
Limit value type : DNEL worker (systemic)

Exposure route : Dermal
Exposure frequency : Short-term
Limit value : 40 mg/kg
Limit value type : DNEL worker (systemic)

Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 110 mg/m³
Limit value type : DNEL worker (systemic)

Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 8 mg/kg
Limit value type : DNEL worker (systemic)

Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 22 mg/m³

PNEC

BIS(4-(2,3-EPOXYPROPOXY)PHENYL) PROPANE ; CAS No. : 1675-54-3

Limit value type : PNEC (Aquatic, freshwater)
Exposure route : Water (Including sewage plant)
Limit value : 0,006 mg/l

Limit value type : PNEC (Aquatic, marine water)
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

Limit value type : PNEC (Sediment, marine water)
Exposure route : Water (Including sewage plant)
Limit value : 0,034 mg/kg

Limit value type : PNEC (Soil)
Exposure route : Soil

Safety Data Sheet

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



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Floortec 2K-Epoxi-Dickschicht 894

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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

OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL]DERIVATES ; CAS No. : 68609-97-2
Limit value type : PNEC (Aquatic, freshwater)
Limit value : 0,106 mg/l
Limit value type : PNEC Intermittierende Einleitung
Limit value : 0,072 mg/l
Limit value type : PNEC (Aquatic, marine water)
Limit value : 0,011 mg/l
Limit value type : PNEC (Sediment, freshwater)
Limit value : 307,16 mg/kg
Limit value type : PNEC (Sediment, marine water)
Limit value : 30,72 mg/kg
Limit value type : PNEC soil
Limit value : 1,234 mg/kg
Limit value type : PNEC (Sewage treatment 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)
Limit value : 0,0075 mg/l
Limit value type : PNEC Intermittierende Einleitung
Exposure route : Water (Including sewage plant)
Limit value : 0,075 mg/l
Limit value type : PNEC (Aquatic, marine water)
Exposure route : Water (Including sewage plant)
Limit value : 0,00075 mg/l
Limit value type : PNEC (Sediment, freshwater)
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

BENZYL ALCOHOL ; CAS No. : 100-51-6
Limit value type : PNEC (Aquatic, freshwater)
Limit value : 1 mg/l
Limit value type : PNEC Intermittierende Einleitung
Limit value : 2,3 mg/l
Limit value type : PNEC (Aquatic, marine water)
Limit value : 0,1 mg/l
Limit value type : PNEC (Sediment, freshwater)
Limit value : 5,27 mg/kg
Limit value type : PNEC (Sediment, marine water)
Limit value : 0,527 mg/kg
Limit value type : PNEC soil

Safety Data Sheet

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Floortec 2K-Epoxi-Dickschicht 894

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Limit value : 0,456 mg/kg
Limit value type : PNEC (Sewage treatment plant)
Limit value : 39 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. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn. Observe data available of section 7.

Personal protection equipment

Eye/face protection

Use safety glasses. Keep eyewashbath with pure water ready.

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 be 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. In case of insufficient ventilation or longer exposure, wear suitable respiratory equipment. Use the combination filter mask A2 - P3. Do not inhale the vapour.

General information

Keep away from food, drink and animal feeding stuff. Immediately remove all contaminated clothing. Wash hands before breaks and after work. Avoid contact with eyes and skin. Do not eat or drink during work - no smoking. 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

characteristic

Safety characteristics

Melting point/freezing point :	(1013 hPa)	No data available
Initial boiling point and boiling range :	(1013 hPa)	No data available
Decomposition temperature :	(1013 hPa)	No data available
Flash point :		86 °C
Auto-ignition temperature :		436 °C
Lower explosion limit :		No data available
Upper explosion limit :		No data available
Vapour pressure:	(20 °C)	0,01 hPa

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Density :	(20 °C)	approx.	1,6	g/cm ³
Water solubility :	(20 °C)		practically insoluble	
pH :		ca	6,5	
log P O/W :			No data available	
Viscosity :	(20 °C)		3600	mPa*s
Kinematic viscosity :	(40 °C)	>	20,5	mm ² /s
Relative vapour density :	(20 °C)		No data available	
VOC-value :		max.	130	g/l
Flammable liquids :	The product is ignitable.			
Particle Characteristics :	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. Particularly larger quantities of the 2C-Mixture material could get hot by the progressive polyaddition, if the mixture would not using. Carbon monoxide, carbon dioxide and nitric oxides could arise.

10.4 Conditions to avoid

Keep away from frost, heat and direct sunlight.

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 :	LD50 (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg
Parameter :	LD50 (OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL]DERIVATES ; CAS No. : 68609-97-2)
Exposure route :	Oral
Effective dose :	> 2000 mg/kg

Safety Data Sheet

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Parameter : LD50 (P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; CAS No. : 3101-60-8)
Exposure route : Oral
Species : Rat
Effective dose : > 5000 mg/kg

Parameter : LD50 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Exposure route : Oral
Species : Rat
Effective dose : 1230 mg/kg

Parameter : LD50 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Exposure route : Oral
Species : Mouse
Effective dose : 1600 mg/kg

Acute dermal toxicity

Parameter : LD50 (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 2000 mg/kg

Parameter : LD50 (OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL]DERIVATES ; CAS No. : 68609-97-2)
Exposure route : Dermal
Effective dose : > 2000 mg/kg

Parameter : LD50 (P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; CAS No. : 3101-60-8)
Exposure route : Dermal
Species : Rat
Effective dose : > 2000 mg/kg

Parameter : LD50 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Exposure route : Dermal
Species : Rabbit
Effective dose : 2000 mg/kg

Acute inhalation toxicity

Parameter : LC50 (OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL]DERIVATES ; CAS No. : 68609-97-2)
Exposure route : Inhalation
Effective dose : > 20 mg/l

Parameter : LC50 (P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; CAS No. : 3101-60-8)
Exposure route : Inhalation
Species : Rat
Effective dose : 3466 mg/l
Exposure time : 4 h

Parameter : LC50 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Exposure route : Inhalation
Species : Rat
Effective dose : 1000 ppm
Exposure time : 8 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).

STOT-single exposure

Safety Data Sheet

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



Trade name : Floortec 2C Epoxy Thick Layer 894
Floortec 2K-Epoxi-Dickschicht 894

Revision date : 04.10.2023

Print date : 04.10.2023

Version (Revision) : 4.0.0 (3.0.0)

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 hygienic 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) fish toxicity

Parameter : LC50 (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6)

Species : Oncorhynchus mykiss (Rainbow trout)

Effective dose : 2 mg/l

Exposure time : 96 h

Chronic (long-term) fish toxicity

Parameter : NOEC (BENZYL ALCOHOL ; CAS No. : 100-51-6)

Effective dose : 48,897 mg/l

Acute (short-term) toxicity to crustacea

Parameter : EC50 (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6)

Species : Daphnia magna (Big water flea)

Effective dose : 1,8 mg/l

Exposure time : 48 h

Chronic (long-term) toxicity to aquatic invertebrate

Parameter : NOEC (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6)

Species : Daphnia magna (Big water flea)

Effective dose : 0,3 mg/l

Exposure time : 21 D

Parameter : NOEC (BENZYL ALCOHOL ; CAS No. : 100-51-6)

Species : Daphnia magna (Big water flea)

Effective dose : 51 mg/l

Acute (short-term) toxicity to algae and cyanobacteria

Parameter : ErC50 (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6)

Species : Selenastrum capricornutum

Effective dose : 11 mg/l

Exposure time : 72 h

Parameter : EC50 (BENZYL ALCOHOL ; CAS No. : 100-51-6)

Safety Data Sheet

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



Trade name : Floortec 2C Epoxy Thick Layer 894
Floortec 2K-Epoxi-Dickschicht 894

Revision date : 04.10.2023

Print date : 04.10.2023

Version (Revision) : 4.0.0 (3.0.0)

Species : Scenedesmus subspicatus
Effective dose : 79 mg/l
Exposure time : 3 h
Parameter : EC50 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Species : Daphnia magna (Big water flea)
Effective dose : 400 mg/l
Exposure time : 24 h

12.2 Persistence and degradability

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

12.3 Bioaccumulative potential

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

12.4 Mobility in soil

These are not datas available 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

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

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.
Danger of drinking water if even small quantities leak into soil.

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 dropped 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:

Code of the European waste catalogue (EWC-Code):

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:

Code of the European waste catalogue (EWC-Code):

15 01 10* - packaging containing residues of or contaminated by hazardous substances.

SECTION 14: Transport information

14.1 UN number

UN 3082

Safety Data Sheet

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



Trade name : Floortec 2C Epoxy Thick Layer 894
Floortec 2K-Epoxi-Dickschicht 894
Revision date : 04.10.2023
Print date : 04.10.2023

Version (Revision) : 4.0.0 (3.0.0)

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 | · E 1
Hazard label(s) : 9 / N

Sea transport (IMDG)

Class(es) : 9
EmS-No. : F-A / S-F
Hazard label(s) : 9 / N

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 9
Hazard label(s) : 9 / N

14.4 Packing group

III

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 International 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.

SECTION 15: Regulatory information

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

EU legislation

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 Lb;

VOC limiting value of the category for 2010: 500 g/l.

This product contains max. 130 g/l VOC (preparation ready for use).

National regulations

Water hazard class

Safety Data Sheet

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



Trade name : Floortec 2C Epoxy Thick Layer 894
Floortec 2K-Epoxi-Dickschicht 894

Revision date : 04.10.2023

Print date : 04.10.2023

Version (Revision) : 4.0.0 (3.0.0)

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

16.1 Indication of changes

None

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 marchandises 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 Prevention 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

Safety Data Sheet

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



Trade name : Floortec 2C Epoxy Thick Layer 894
Floortec 2K-Epoxi-Dickschicht 894

Revision date : 04.10.2023

Print date : 04.10.2023

Version (Revision) : 4.0.0 (3.0.0)

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

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.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
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.

Safety Data Sheet

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



Trade name : Floortec Epoxy Hardener 893
Floortec Epoxi-Härter 893
Revision date : 30.03.2022
Print date : 30.03.2022

Version (Revision) : 2.0.0 (1.0.0)

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

1.1 Product identifier

Floortec Epoxy Hardener 893
Floortec Epoxi-Härter 893

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

The product may be used only in professional or industriell applications. 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]

Acute Tox. 4 ; H302 - Acute toxicity (oral) : Category 4 ; Harmful if swallowed.

Skin Corr. 1B ; H314 - Skin corrosion/irritation : Category 1B ; Causes severe skin burns and eye damage.

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

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

Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Chronic 3 ; Harmful to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard pictograms



Corrosion (GHS05) · Exclamation mark (GHS07)

Signal word

Danger

Hazard components for labelling

Safety Data Sheet

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



Trade name : Floortec Epoxy Hardener 893
Floortec Epoxi-Härter 893

Revision date : 30.03.2022

Print date : 30.03.2022

Version (Revision) : 2.0.0 (1.0.0)

ADDUCT IXA-P (POLYAMINE-EPOXY RESIN-ADDUCT) ; CAS No. : 212580-83-1
M-PHENYLENEBIS(METHYLAMINE) ; CAS No. : 1477-55-0
3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE ; CAS No. : 2855-13-2

Hazard statements

H314 Causes severe skin burns and eye damage.
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.
P261 Avoid breathing vapours.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P310 Immediately call a POISON CENTER or a doctor.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.

Supplemental hazard information

EUH071 Corrosive to the respiratory tract.

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

Mixture based on components, which are called following, and other components.

Hazardous ingredients

BENZYL ALCOHOL ; REACH No. : 01-2119492630-38 ; EC No. : 202-859-9; CAS No. : 100-51-6

Weight fraction : $\geq 40 - < 60$ %
Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Acute Tox. 4 ; H332 Eye Irrit. 2 ; H319

ADDUCT IXA-P (POLYAMINE-EPOXY RESIN-ADDUCT) ; CAS No. : 212580-83-1

Weight fraction : $\geq 20 - < 25$ %
Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Skin Sens. 1 ; H317 Aquatic Chronic 3 ; H412

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE ; REACH No. : 01-2119514687-32 ; EC No. : 220-666-8; CAS No. : 2855-13-2

Weight fraction : $\geq 10 - < 20$ %
Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Skin Sens. 1 ; H317 Aquatic Chronic 3 ; H412

M-PHENYLENEBIS(METHYLAMINE) ; REACH No. : 01-2119480150-50 ; EC No. : 216-032-5; CAS No. : 1477-55-0

Weight fraction : $\geq 10 - < 20$ %
Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Acute Tox. 4 ; H302 Acute Tox. 4 ; H332 Skin Sens. 1 ; H317 Aquatic Chronic 3 ; H412

HYDROCARBONS, C9, AROMATICS ; REACH No. : 01-2119455851-35 ; EC No. : 918-668-5

Weight fraction : $\geq 5 - < 10$ %

Safety Data Sheet

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



Trade name : Floortec Epoxy Hardener 893
Floortec Epoxi-Härter 893

Revision date : 30.03.2022

Print date : 30.03.2022

Version (Revision) : 2.0.0 (1.0.0)

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT SE 3 ; H335 STOT SE 3 ; H336 Aquatic Chronic 2 ; H411 EUH066

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL ; REACH No. : 01-2119560597-27 ; EC No. : 202-013-9 ; CAS No. : 90-72-2

Weight fraction : $\geq 3 - < 5 \%$

Classification 1272/2008 [CLP] : Skin Corr. 1C ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302

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

Immediately remove all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. 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 advice if complaint continues.

Following ingestion

Rinse mouth with plenty of water. 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

Causes severe skin burns and eye damage.
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

In case of fire: Use alcohol resistant foam, CO₂, powders or water spray for extinction.

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

At a fire caused by the product a breathing apparatus with an independent source of air is to have ready and to use if necessary for the firefighting.

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

Safety Data Sheet

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



Trade name : Floortec Epoxy Hardener 893
Floortec Epoxi-Härter 893

Revision date : 30.03.2022

Print date : 30.03.2022

Version (Revision) : 2.0.0 (1.0.0)

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. Keep no protective persons away, personal should wear protective clothings. Avoid contact with eyes and skin.

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).

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

Ensure a good ventilation in room and working area. For personal protection see Section 8. By mixing the components slowly, the container have to cover the product container to reduce the splashing danger. Working carefully and slowly when decanting the mixture in another container. Avoid contact with skin and eyes. Read label before use.

Measures to prevent fire

No special precautionary measure necessary. 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. Do not get in eyes, on skin, or on 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

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. Store away from foodstuffs.

Storage class (TRGS 510) : 8A

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): RE30.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Safety Data Sheet

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



Trade name : Floortec Epoxy Hardener 893
Floortec Epoxi-Härter 893
Revision date : 30.03.2022
Print date : 30.03.2022

Version (Revision) : 2.0.0 (1.0.0)

Occupational exposure limit values

BENZYL ALCOHOL ; CAS No. : 100-51-6

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 5 ppm / 22 mg/m³
Peak limitation : 2(I)
Remark : H, Y
Version : 02.07.2021

HYDROCARBONS, C9, AROMATICS

Limit value type (country of origin) : TRGS 900 (D)
Group limit for the calculation of the occupational exposure limit for hydrocarbon mixtures (see section 2.9 of Technical Rule 900).
Parameter :
Limit value : 50 mg/m³
Version :

DNEL-/PNEC-values

DNEL/DMEL

HYDROCARBONS, C9, AROMATICS

Limit value type : DNEL/DMEL (Consumer)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 11 mg/kg
Assessment factor : 1 D
Limit value type : DNEL/DMEL (Consumer)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 32 mg/m³
Limit value type : DNEL/DMEL (Consumer)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 11 mg/kg
Assessment factor : 1 D
Limit value type : DNEL/DMEL (Professional)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 25 mg/kg
Assessment factor : 1 D
Limit value type : DNEL/DMEL (Professional)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 150 mg/m³

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. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn. Observe data available of section 7.

Personal protection equipment

Eye/face protection

Use safety glasses. Keep eyewashbath with pure water ready.

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.

Safety Data Sheet

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



Trade name : Floortec Epoxy Hardener 893
Floortec Epoxi-Härter 893
Revision date : 30.03.2022
Print date : 30.03.2022

Version (Revision) : 2.0.0 (1.0.0)

By longer or repeated contact the penetration times can be considerably shorter. The protective gloves should be 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. In case of insufficient ventilation or longer exposure, wear suitable respiratory equipment. Use the combination filter mask A2 - P3. 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. Keep away from food, drink and animal feeding stuff. 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

characteristic

Safety characteristics

Melting point/freezing point :	(1013 hPa)		No data available
Initial boiling point and boiling range :	(1013 hPa)		No data available
Decomposition temperature :	(1013 hPa)		No data available
Flash point :			68 °C
Auto-ignition temperature :			No data available
Lower explosion limit :			No data available
Upper explosion limit :			No data available
Vapour pressure:	(20 °C)	approx.	20 hPa
Density :	(20 °C)	approx.	1,03 g/cm ³
Water solubility :	(20 °C)		practically insoluble
pH :		ca	11
log P O/W :			No data available
Viscosity :	(20 °C)	approx.	100 mPa*s
Kinematic viscosity :	(40 °C)	>	20,5 mm ² /s
Relative vapour density :	(20 °C)		No data available
VOC-value :		max.	130 g/l
Flammable liquids :	The product is not ignitable.		
Particle Characteristics :	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.

Safety Data Sheet

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



Trade name : Floortec Epoxy Hardener 893
Floortec Epoxi-Härter 893

Revision date : 30.03.2022

Print date : 30.03.2022

Version (Revision) : 2.0.0 (1.0.0)

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. Particularly larger quantities of the 2C-Mixture material could get hot by the progressive polyaddition, if the mixture would not using. Carbon monoxide, carbon dioxide and nitric oxides could arise.

10.4 Conditions to avoid

Keep away from frost, heat and direct sunlight.

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 :	LD50 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Exposure route :	Oral
Species :	Rat
Effective dose :	1230 mg/kg
Parameter :	LD50 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Exposure route :	Oral
Species :	Mouse
Effective dose :	1600 mg/kg
Parameter :	LD50 (ADDUCT IXA-P (POLYAMINE-EPOXY RESIN-ADDUCT) ; CAS No. : 212580-83-1)
Exposure route :	Oral
Species :	Rat
Effective dose :	500 mg/kg
Parameter :	LD50 (M-PHENYLENEBIS(METHYLAMINE) ; CAS No. : 1477-55-0)
Exposure route :	Oral
Species :	Rat
Effective dose :	930 mg/kg
Parameter :	LD50 (3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE ; CAS No. : 2855-13-2)
Exposure route :	Oral
Species :	Rat
Effective dose :	1030 mg/kg
Parameter :	LD50 (HYDROCARBONS, C9, AROMATICS)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 6800 mg/kg
Parameter :	LD50 (2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL ; CAS No. : 90-72-2)
Exposure route :	Oral

Safety Data Sheet

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



Trade name : Floortec Epoxy Hardener 893
Floortec Epoxi-Härter 893
Revision date : 30.03.2022
Print date : 30.03.2022

Version (Revision) : 2.0.0 (1.0.0)

Species : Rat
Effective dose : 2169 mg/kg

Acute dermal toxicity

Parameter : LD50 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Exposure route : Dermal
Species : Rabbit
Effective dose : 2000 mg/kg
Parameter : LD50 (3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE ; CAS No. : 2855-13-2)
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 : > 3100 mg/kg
Parameter : LD50 (HYDROCARBONS, C9, AROMATICS)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 3400 mg/kg

Acute inhalation toxicity

Parameter : LC50 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Exposure route : Inhalation
Species : Rat
Effective dose : 1000 ppm
Exposure time : 8 h
Parameter : LC50 (M-PHENYLENEBIS(METHYLAMINE) ; CAS No. : 1477-55-0)
Exposure route : Inhalation
Species : Rat
Effective dose : 1,34 mg/l
Exposure time : 4 h
Parameter : LC50 (3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE ; CAS No. : 2855-13-2)
Exposure route : Inhalation
Species : Rat
Effective dose : > 5,01 mg/l
Exposure time : 4 h
Parameter : LC50 (HYDROCARBONS, C9, AROMATICS)
Exposure route : Inhalation
Species : Rat
Effective dose : > 10,2 mg/l
Exposure time : 4 h

Corrosion

Irritation:
Causes severe skin burns and eye damage.

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).

STOT-single exposure

No risk expected.

STOT-repeated exposure

No risk expected.

Safety Data Sheet

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



Trade name : Floortec Epoxy Hardener 893
Floortec Epoxi-Härter 893
Revision date : 30.03.2022
Print date : 30.03.2022

Version (Revision) : 2.0.0 (1.0.0)

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 hygienic 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) fish toxicity

Parameter : LC50 (HYDROCARBONS, C9, AROMATICS)
Species : Oncorhynchus mykiss (Rainbow trout)
Effective dose : 9,2 mg/l
Exposure time : 96 h

Acute (short-term) toxicity to crustacea

Parameter : EC50 (HYDROCARBONS, C9, AROMATICS)
Species : Daphnia magna (Big water flea)
Effective dose : 3,2 mg/l
Exposure time : 48 h

Acute (short-term) toxicity to algae and cyanobacteria

Parameter : EC50 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Species : Daphnia magna (Big water flea)
Effective dose : > 100 mg/l
Exposure time : 48 h

Parameter : ErC50 (3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE ; CAS No. : 2855-13-2)

Species : Desmodesmus subspicatus
Effective dose : > 10 - 100 mg/l
Exposure time : 72 h

Parameter : EC50 (M-PHENYLENEBIS(METHYLAMINE) ; CAS No. : 1477-55-0)
Species : Daphnia magna (Big water flea)
Effective dose : > 10 - 100 mg/l
Exposure time : 48 h

Parameter : ErC50 (HYDROCARBONS, C9, AROMATICS)
Species : Pseudokirchneriella subcapitata
Effective dose : 2,6 - 2,9 mg/l
Exposure time : 72 h

Parameter : EC50 (2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL ; CAS No. : 90-72-2)
Species : Scenedesmus capricornutum
Effective dose : > 10 - 100 mg/l
Exposure time : 72 h

12.2 Persistence and degradability

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

Safety Data Sheet

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



Trade name : Floortec Epoxy Hardener 893
Floortec Epoxi-Härter 893

Revision date : 30.03.2022

Print date : 30.03.2022

Version (Revision) : 2.0.0 (1.0.0)

12.3 Bioaccumulative potential

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

12.4 Mobility in soil

These are not data available 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

Harmful to aquatic life, may cause long-term adverse effects in the aquatic environment.

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.
Danger of drinking water if even small quantities leak into soil.

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 dropped 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 1760

14.2 UN proper shipping name

Land transport (ADR/RID)

CORROSIVE LIQUID, N.O.S. (3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE · M-PHENYLENEBIS(METHYLAMINE))

Sea transport (IMDG)

CORROSIVE LIQUID, N.O.S. (3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE · M-PHENYLENEBIS(METHYLAMINE))

Air transport (ICAO-TI / IATA-DGR)

CORROSIVE LIQUID, N.O.S. (3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE · M-PHENYLENEBIS(METHYLAMINE))

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Safety Data Sheet

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



Trade name : Floortec Epoxy Hardener 893
Floortec Epoxi-Härter 893
Revision date : 30.03.2022
Print date : 30.03.2022

Version (Revision) : 2.0.0 (1.0.0)

Class(es) : 8
Classification code : C9
Hazard identification number (Kemler No.) : 80
Tunnel restriction code : E
Special provisions : LQ 1 | E 2
Hazard label(s) : 8
Sea transport (IMDG)
Class(es) : 8
EmS-No. : F-A / S-B
Special provisions : LQ 1 | E 2
Hazard label(s) : 8
Air transport (ICAO-TI / IATA-DGR)
Class(es) : 8
Hazard label(s) : 8

14.4 Packing group

II

14.5 Environmental hazards

Land transport (ADR/RID) : No
Sea transport (IMDG) : No
Air transport (ICAO-TI / IATA-DGR) : No

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 International Maritime Organization (IMO) instruments.

SECTION 15: Regulatory information

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

EU legislation

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 Lb;
VOC limiting value of the category for 2010: 500 g/l.
This product contains max. 130 g/l VOC (preparation ready for use).

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

16.1 Indication of changes

Safety Data Sheet

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



Trade name : Floortec Epoxy Hardener 893
Floortec Epoxi-Härter 893

Revision date : 30.03.2022

Print date : 30.03.2022

Version (Revision) : 2.0.0 (1.0.0)

None

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 marchandises 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 Prevention 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

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC)

Safety Data Sheet

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



Trade name : Floortec Epoxy Hardener 893
Floortec Epoxi-Härter 893
Revision date : 30.03.2022
Print date : 30.03.2022

Version (Revision) : 2.0.0 (1.0.0)

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)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

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.
