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

1.1 Product identifier

2 K Epoxy Repair Filler 599 (Component A)
2K-Epoxi-Reparaturfüller 599 (Komponente A)

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

REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 9003-36-5
REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6
REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-(CHLOROMETHYL) OXIRANE (1;2) ; CAS No. : 933999-84-9

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

P261	Avoid breathing vapours.
P102	Keep out of reach of children.
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

REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; REACH No. : 01-2119454392-40 ; EC No. : 500-006-8; CAS No. : 9003-36-5

Weight fraction : ≥ 10 - < 25 %
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Chronic 2 ; H411 EUH205

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

Weight fraction : ≥ 2,5 - < 10 %
Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Acute Tox. 4 ; H332

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; REACH No. : 01-2119456619-26 ; EC No. : 500-033-5; CAS No. : 25068-38-6

Weight fraction : ≥ 2,5 - < 10 %
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 %

REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-(CHLOROMETHYL) OXIRANE (1;2) ; REACH No. : 01-2119463471-41 ; EC No. : 618-939-5; CAS No. : 933999-84-9

Weight fraction : ≥ 1 - < 2,5 %

Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 Aquatic Chronic 3 ; H412

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. In case of unconsciousness: lay on side - call a doctor. Never give anything by mouth to an unconscious person. 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

Keep at rest. Drink water in small draught. 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

In case of fire carbon monoxide or carbon dioxide may be formed. In case of fire other toxic gases may be formed in traces, e. g. hydrogen chloride (HCl).

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. Protective clothing against alkali substances.

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. 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). Remove residue by rinsing thoroughly with water. 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

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

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): RE20.

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)

Limit value : 5 ml/m³ / 22 mg/m³
Peak limitation : 2 (I)
Remark : DFG, H, Y, 11
Version :

DNEL-/PNEC-values

DNEL/DMEL

REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 9003-36-5

Limit value type : DNEL Consumer (systemic)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 6,25 mg/kg
Limit value type : DNEL Consumer (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 62,5 mg/kg
Limit value type : DNEL Consumer (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 8,7 mg/m³
Limit value type : DNEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 104,15 mg/kg
Limit value type : DNEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 29,39 - 3

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

Limit value type : DNEL Consumer (systemic)
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 : DMEL worker (systemic)

Exposure route : Dermal
Exposure frequency : Short-term
Limit value : 40 mg/kg
Limit value type : DMEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 110 mg/m³
Limit value type : DMEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 8 mg/kg
Limit value type : DMEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 22 mg/m³

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

Limit value type : DNEL/DMEL (Consumer)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 0,75 mg/kg
Limit value type : DNEL/DMEL (Consumer)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 3,6 mg/kg
Limit value type : DNEL/DMEL (Consumer)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 0,75 mg/kg
Limit value type : DNEL/DMEL (Professional)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 8,3 mg/kg
Limit value type : DNEL/DMEL (Professional)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 12,3 mg/kg

REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-(CHLOROMETHYL) OXIRANE (1;2) ; CAS No. : 933999-84-9

Limit value type : DNEL Consumer (local)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 0,27 mg/m³
Limit value type : DNEL Consumer (systemic)
Exposure route : Oral
Exposure frequency : Short-term
Limit value : 1,5 mg/kg
Limit value type : DNEL Consumer (systemic)
Exposure route : Dermal
Exposure frequency : Short-term
Limit value : 1,7 mg/kg
Limit value type : DNEL Consumer (systemic)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 5,29 mg/m³
Limit value type : DNEL Consumer (systemic)

Exposure route :	Oral
Exposure frequency :	Long-term
Limit value :	1,5 mg/kg
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	3 mg/kg
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	5,29 mg/m³
Limit value type :	DNEL worker (local)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	0,4 mg/m³
Limit value type :	DNEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	10,57 mg/m³
Limit value type :	DNEL worker (systemic)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	6 mg/kg
Limit value type :	DNEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	10,57 mg/m³

PNEC

REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 9003-36-5

Limit value type :	PNEC (Aquatic, freshwater)
Limit value :	0,003 mg/l
Limit value type :	PNEC Intermittierende Einleitung
Limit value :	0,025 mg/l
Limit value type :	PNEC (Aquatic, marine water)
Limit value :	0 mg/l
Limit value type :	PNEC (Sediment, freshwater)
Limit value :	0,294 mg/kg
Limit value type :	PNEC (Sediment, marine water)
Limit value :	0,029 mg/kg
Limit value type :	PNEC (Soil)
Limit value :	0,237 mg/kg

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)
Limit value :	0,456 mg/kg

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

Limit value type :	PNEC (Consumer)
Exposure route :	Water (Including sewage plant)
Limit value :	10 mg/l
Limit value type :	PNEC (Sediment, freshwater)
Exposure route :	Water (Including sewage plant)
Limit value :	0,5 mg/kg
Limit value type :	PNEC (Sediment, marine water)
Exposure route :	Water (Including sewage plant)
Limit value :	0,5 mg/kg

REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-(CHLOROMETHYL) OXIRANE (1;2) ; CAS No. : 933999-84-9

Limit value type :	PNEC (Aquatic, freshwater)
Limit value :	0,011 mg/l
Limit value type :	PNEC Intermittierende Einleitung
Limit value :	0,115 mg/l
Limit value type :	PNEC (Aquatic, marine water)
Limit value :	0,001 mg/l
Limit value type :	PNEC (Sediment, freshwater)
Limit value :	0,283 mg/kg
Limit value type :	PNEC (Sediment, marine water)
Limit value :	0,028 mg/kg
Limit value type :	PNEC (Soil)
Limit value :	0,223 mg/kg

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this shoud 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 adequately ventilated places.

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 : Pasty.

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)	>	200	°C
Decomposition temperature :	(1013 hPa)		No data available	
Flash point :		>	100	°C
Auto-ignition temperature :		>	400	°C
Lower explosion limit :			No data available	
Upper explosion limit :			No data available	
Vapour pressure :	(50 °C)		0,09	hPa
Vapour pressure:	(20 °C)		0,07	hPa
Density :	(20 °C)	approx.	1,5	g/cm^3
Water solubility :	(20 °C)		Not mixable	
pH :			not applicable	
log P O/W :			No data available	
Viscosity :	(20 °C)		No data available	
Kinematic viscosity :	(40 °C)		No data available	
Relative vapour density :	(20 °C)		No data available	
VOC-value :		max.	210	g/l
Flammable liquids :	The product is ignitable.			
Particle Characterics :	not applicable			

9.2 Other information

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

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.

10.4 Conditions to avoid

Keep away from frost, heat and direct sunlight.

10.5 Incompatible materials

No dangerous reaction known. Chemical reactions with bases and other organic substance classes like alcohols and amines are possible.

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 F-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 9003-36-5)
Exposure route :	Oral
Effective dose :	> 2000 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
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 (REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-(CHLOROMETHYL) OXIRANE (1;2) ; CAS No. : 933999-84-9)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 8500 mg/kg

Acute dermal toxicity

Parameter :	LD50 (REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 9003-36-5)
Exposure route :	Dermal
Effective dose :	> 2000 mg/kg
Parameter :	LD50 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 2000 mg/kg
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 (REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-(CHLOROMETHYL) OXIRANE (1;2) ; CAS No. : 933999-84-9)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 4900 mg/kg

Acute inhalation toxicity

Parameter :	LC50 (REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 9003-36-5)
Exposure route :	Inhalation
Effective dose :	> 20 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
Parameter :	LC50 (REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-(CHLOROMETHYL) OXIRANE (1;2) ; CAS No. : 933999-84-9)
Exposure route :	Inhalation
Effective dose :	> 20 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).

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

Parameter :	LC50 (REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 9003-36-5)
Species :	Acute (short-term) fish toxicity
Effective dose :	> 1 - 10 mg/l
Exposure time :	96 h
Parameter :	LC50 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Species :	Leuciscus idus (golden orfe)
Effective dose :	646 mg/l
Exposure time :	48 h

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
Parameter :	LC50 (REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-(CHLOROMETHYL) OXIRANE (1;2) ; CAS No. : 933999-84-9)
Species :	Leuciscus idus (golden orfe)
Effective dose :	30 mg/l
Exposure time :	96 h

Acute (short-term) toxicity to crustacea

Parameter :	EC50 (REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 9003-36-5)
Species :	Acute (short-term) daphnia toxicity
Effective dose :	> 1 - 10 mg/l
Exposure time :	48 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
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
Parameter :	EC50 (REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-(CHLOROMETHYL) OXIRANE (1;2) ; CAS No. : 933999-84-9)
Species :	Acute (short-term) daphnia toxicity
Effective dose :	47 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

Acute (short-term) toxicity to algae and cyanobacteria

Parameter :	EC50 (REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 9003-36-5)
Species :	Acute (short-term) algae toxicity
Effective dose :	> 1 - 10 mg/l
Exposure time :	72 h
Parameter :	EC50 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Species :	Scenedesmus subspicatus
Effective dose :	79 mg/l
Exposure time :	3 h
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

Toxicity to microorganisms

Parameter :	EC50 (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6)
Species :	Bacteria toxicity
Effective dose :	> 42,6 mg/l

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

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

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 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

UN 3082

14.2 UN proper shipping name

Land transport (ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700))

Sea transport (IMDG)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700))

Air transport (ICAO-TI / IATA-DGR)
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700))

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 l · E 1
Hazard label(s) :	9 / N

Sea transport (IMDG)

Class(es) :	9
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 Internationa Maritime Organization (IMO) instruments.

14.8 Additional information

ADR/RID: Limited quantities.
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

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

The product is not subject to the EU guideline 2004/42/EC about the limitation of the issues of brief organic connections due to the use of organic solvents in certain colours and varnishes.

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

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 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

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.
H412	Harmful 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.

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

1.1 Product identifier

2 C Epoxy Repair Filler 599 (Component B)
2K-Epoxi-Reparaturfüller 599 (Komponente B)

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 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.
Repr. 2 ; H361 - Reproductive toxicity : Category 2 ; Suspected of damaging fertility or the unborn child.
STOT RE 2 ; H373 - STOT-repeated exposure : Category 2 ; May cause damage to organs through prolonged or repeated exposure.

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

2-PIPERAZIN-1-YLETHYLAMINE ; CAS No. : 140-31-8

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL ; CAS No. : 90-72-2

Hazard statements

H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.

Precautionary statements

P102	Keep out of reach of children.
P260	Do not breathe vapours.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P310	Immediately call a POISON CENTER or a doctor.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
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.

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 : ≥ 5 - < 10 %

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Acute Tox. 4 ; H332

2,2` -OXYBISETHANOL ; REACH No. : 01-2119457857-21 ; EC No. : 203-872-2; CAS No. : 111-46-6

Weight fraction : ≥ 2,5 - < 10 %

Classification 1272/2008 [CLP] : STOT RE 2 ; H373 Acute Tox. 4 ; H302

2-PIPERAZIN-1-YLETHYLAMINE ; REACH No. : 01-2119471486-30 ; EC No. : 205-411-0; CAS No. : 140-31-8

Weight fraction : ≥ 2,5 - < 10 %

Classification 1272/2008 [CLP] : Acute Tox. 3 ; H311 STOT RE 1 ; H372 Repr. 2 ; H361 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Sens. 1 ; H317 Aquatic Chronic 3 ; H412

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

Weight fraction : < 1 %

Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Skin Sens. 1B ; H317

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. In case of unconsciousness: lay on side - call a doctor. Never give anything by mouth to an unconscious person. 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

Keep at rest. Drink water in small draught. 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

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

In case of fire carbon monoxide or carbon dioxide may be formed. In case of fire other toxic gases may be formed in traces, e. g. hydrogen chloride (HCl).

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. Protective clothing against alkali substances.

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. 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). Remove residue by rinsing thoroughly with water. 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

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

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): RE20.

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)
Limit value :	5 ml/m³ / 22 mg/m³
Peak limitation :	2 (I)
Remark :	DFG, H, Y, 11
Version :	

2,2` -OXYBISETHANOL ; CAS No. : 111-46-6

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

Limit value :	10 ppm / 44 mg/m³
Peak limitation :	4(II)
Remark :	Y
Version :	17.10.2017

Remark

Taking into account the details mentioned in the TRGS 900 for the supervision of AGW.

DNEL-/PNEC-values

DNEL/DMEL

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

Limit value type :	DNEL Consumer (systemic)
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 :	DMEL worker (systemic)
Exposure route :	Dermal
Exposure frequency :	Short-term
Limit value :	40 mg/kg
Limit value type :	DMEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	110 mg/m³
Limit value type :	DMEL worker (systemic)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	8 mg/kg
Limit value type :	DMEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	22 mg/m³

2,2` -OXYBISETHANOL ; CAS No. : 111-46-6

Limit value type :	DNEL Consumer (local)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	12 mg/m³

Limit value type :	DNEL Consumer (systemic)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	21 mg/kg
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	12 mg/m³
Limit value type :	DMEL worker (local)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	60 mg/m³
Limit value type :	DMEL worker (systemic)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	43 mg/kg
Limit value type :	DMEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	44 mg/m³

2-PIPERAZIN-1-YLETHYLAMINE ; CAS No. : 140-31-8

Limit value type :	DNEL worker (local)
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	80 mg/m³
Limit value type :	DNEL worker (local)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	0,015 mg/m³
Limit value type :	DNEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	10,6 - 3
Limit value type :	DNEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	10,6 mg/m³
Limit value type :	DNEL worker (systemic)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	3,33 mg/kg

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL ; CAS No. : 90-72-2

Limit value type :	DNEL Consumer (systemic)
Exposure route :	Oral
Exposure frequency :	Long-term
Limit value :	0,075 mg/kg
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	0,075 mg/kg
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	0,13 mg/m³
Limit value type :	DNEL worker (systemic)

Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 0,15 mg/kg
Limit value type : DNEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 0,53 mg/m³

PNEC

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)
Limit value : 0,456 mg/kg

2,2` -OXYBISETHANOL ; CAS No. : 111-46-6
Limit value type : PNEC (Aquatic, freshwater)
Limit value : 10 mg/l

2-PIPERAZIN-1-YLETHYLAMINE ; CAS No. : 140-31-8
Limit value type : PNEC (Aquatic, freshwater)
Limit value : 0,058 mg/l
Limit value type : PNEC Intermittierende Einleitung
Limit value : 0,58 mg/l

2,2` -OXYBISETHANOL ; CAS No. : 111-46-6
Limit value type : PNEC Intermittierende Einleitung
Limit value : 10 mg/l
Limit value type : PNEC (Aquatic, marine water)
Limit value : 1 mg/l

2-PIPERAZIN-1-YLETHYLAMINE ; CAS No. : 140-31-8
Limit value type : PNEC (Aquatic, marine water)
Limit value : 0,006 mg/l
Limit value type : PNEC (Sediment, freshwater)
Limit value : 215 mg/kg

2,2` -OXYBISETHANOL ; CAS No. : 111-46-6
Limit value type : PNEC (Sediment, freshwater)
Limit value : 20,9 mg/kg
Limit value type : PNEC (Sediment, marine water)
Limit value : 2,09 mg/kg

2-PIPERAZIN-1-YLETHYLAMINE ; CAS No. : 140-31-8
Limit value type : PNEC (Sediment, marine water)
Limit value : 21,5 mg/kg

2,2` -OXYBISETHANOL ; CAS No. : 111-46-6
Limit value type : PNEC soil
Limit value : 1,53 mg/kg

2-PIPERAZIN-1-YLETHYLAMINE ; CAS No. : 140-31-8
Limit value type : PNEC (Soil)
Limit value : 1 mg/kg

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL ; CAS No. : 90-72-2
Limit value type : PNEC (Aquatic, freshwater)

Limit value :	0,046 mg/l
Limit value type :	PNEC Intermittierende Einleitung
Limit value :	0,46 mg/l
Limit value type :	PNEC (Aquatic, marine water)
Limit value :	0,005 mg/l
Limit value type :	PNEC (Sediment, freshwater)
Limit value :	0,262 mg/kg
Limit value type :	PNEC (Sediment, marine water)
Limit value :	0,026 mg/kg
Limit value type :	PNEC (Soil)
Limit value :	0,025 mg/kg

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this shoud 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 adequately ventilated places.

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 : Pasty.

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)	>	200	°C

Decomposition temperature :	(1013 hPa)		No data available	
Flash point :		>	100	°C
Auto-ignition temperature :		>	200	°C
Lower explosion limit :			No data available	
Upper explosion limit :			No data available	
Vapour pressure :	(50 °C)		9	hPa
Vapour pressure:	(20 °C)		1,66	hPa
Density :	(20 °C)	approx.	1,4	g/cm³
Water solubility :	(20 °C)		Not mixable	
pH :			not applicable	
log P O/W :			No data available	
Viscosity :	(20 °C)		No data available	
Kinematic viscosity :	(40 °C)		No data available	
Relative vapour density :	(20 °C)		No data available	
VOC-value :		max.	210	g/l
Flammable liquids :	The product is ignitable.			
Particle Characterics :	not applicable			

9.2 Other information

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

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.

10.4 Conditions to avoid

Keep away from frost, heat and direct sunlight.

10.5 Incompatible materials

No dangerous reaction known. Substances to be avoided: Strong acids and strong oxidants.

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 (2,2` -OXYBISETHANOL ; CAS No. : 111-46-6)
Exposure route :	Oral
Species :	Rat
Effective dose :	500 mg/kg
Parameter :	LD50 (2-PIPERAZIN-1-YLETHYLAMINE ; CAS No. : 140-31-8)
Exposure route :	Oral
Species :	Rat
Effective dose :	2140 mg/kg
Parameter :	LD50 (2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL ; CAS No. : 90-72-2)
Exposure route :	Oral
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 (2,2` -OXYBISETHANOL ; CAS No. : 111-46-6)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	13330 mg/kg
Parameter :	LD50 (2-PIPERAZIN-1-YLETHYLAMINE ; CAS No. : 140-31-8)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	866 mg/kg
Parameter :	LD50 (2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL ; CAS No. : 90-72-2)
Exposure route :	Dermal
Effective dose :	> 2000 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 (2,2` -OXYBISETHANOL ; CAS No. : 111-46-6)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	> 20 mg/l
Exposure time :	4 h
Parameter :	LC50 (2-PIPERAZIN-1-YLETHYLAMINE ; CAS No. : 140-31-8)
Exposure route :	Inhalation
Effective dose :	> 20 mg/l
Exposure time :	4 h
Parameter :	LC50 (2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL ; CAS No. : 90-72-2)
Exposure route :	Inhalation
Effective dose :	> 20 mg/l

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 classified as human reproductive toxic.

STOT-single exposure

No risk expected.

STOT-repeated exposure

May causes damage to the organs through prolonged or repeated exposure.

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

Parameter :	LC50 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Species :	Leuciscus idus (golden orfe)
Effective dose :	646 mg/l
Exposure time :	48 h
Parameter :	LC50 (2,2` -OXYBISETHANOL ; CAS No. : 111-46-6)
Species :	Gambusia affinis (Mosquito fish)
Effective dose :	3200 mg/l
Exposure time :	96 h
Parameter :	LC50 (2-PIPERAZIN-1-YLETHYLAMINE ; CAS No. : 140-31-8)
Species :	Acute (short-term) fish toxicity
Effective dose :	> 10 - 100 mg/l
Exposure time :	96 h

Acute (short-term) toxicity to crustacea

Parameter :	EC50 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Species :	Daphnia magna (Big water flea)
Effective dose :	400 mg/l
Exposure time :	24 h
Parameter :	EC50 (2,2` -OXYBISETHANOL ; CAS No. : 111-46-6)
Species :	Daphnia magna (Big water flea)
Effective dose :	8400 mg/l
Exposure time :	48 h
Parameter :	EC50 (2-PIPERAZIN-1-YLETHYLAMINE ; CAS No. : 140-31-8)
Species :	Acute (short-term) daphnia toxicity
Effective dose :	> 10 - 100 mg/l
Exposure time :	48 h

Acute (short-term) toxicity to algae and cyanobacteria

Parameter :	EC50 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Species :	Scenedesmus subspicatus
Effective dose :	79 mg/l
Exposure time :	3 h
Parameter :	EC50 (2-PIPERAZIN-1-YLETHYLAMINE ; CAS No. : 140-31-8)
Species :	Acute (short-term) algae toxicity
Effective dose :	> 10 - 100 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 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. Harmful to fishes.

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 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

UN 2735

14.2 UN proper shipping name

Land transport (ADR/RID)

AMINES, LIQUID, CORROSIVE, N.O.S. (2-PIPERAZIN-1-YLETHYLAMINE)

Sea transport (IMDG)

POLYAMINES, LIQUID, CORROSIVE, N.O.S. (2-PIPERAZIN-1-YLETHYLAMINE)

Air transport (ICAO-TI / IATA-DGR)

POLYAMINES, LIQUID, CORROSIVE, N.O.S. (2-PIPERAZIN-1-YLETHYLAMINE)

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) :	8
Classification code :	C7
Hazard identification number (Kemler No.) :	80
Tunnel restriction code :	E
Special provisions :	LQ 1 l · E 2
Hazard label(s) :	8

Sea transport (IMDG)

Class(es) :	9
EmS-No. :	F-A / S-B
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 Internationa Maritime Organization (IMO) instruments.

14.8 Additional information

ADR/RID: Limited quantities.

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

The product is not subject to the EU guideline 2004/42/EC about the limitation of the issues of brief organic connections due to the use of organic solvents in certain colours and varnishes.

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

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 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

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.
H311	Toxic 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.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful 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.