

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

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Techno Stick Titan 57g

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

1.1. Product identifier

Trade name/designation:

Techno Stick Titan 57g

Article No.:

T638006

UFI:

4GFK-88S6-0HSU-A6CW

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

Use of the substance/mixture:

Epoxidharze

1.3. Details of the supplier of the safety data sheet

Supplier:

KANDO Service GmbH

Hartleitnerstraße 3

4653 Eberstälzell

Austria

Telephone: +43 (0) 7241 213 79

E-mail: msds@kando.eu

1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 2</i>)	H411: Toxic to aquatic life with long lasting effects.	

Additional information:

Contains epoxy constituents. May produce an allergic reaction.

2.2. Label elements

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

Hazard pictograms:



GHS09
Environment



GHS07
Exclamation mark



GHS05
Corrosion

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Signal word: Danger

Hazard statements for health hazards	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

Hazard statements for environmental hazards	
H411	Toxic to aquatic life with long lasting effects.

Supplemental hazard information: none

Precautionary statements Prevention	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye protection/face protection.

Precautionary statements Response	
P302 + P352	IF ON SKIN: Wash with plenty of water/ .
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.

Precautionary statements Disposal	
P501	Dispose of contents/container to an appropriate recycling or disposal facility.

Special rules for supplemental label elements for certain mixtures:

Contains epoxy constituents. May produce an allergic reaction.

2.3. Other hazards


Other adverse effects:

This mixture does not contain substances classified as PBT or vPvB substances. May cause hormone imbalances

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 14807-96-6 EC No.: 238-877-9 REACH No.: 01-2120140278-58	Talc (Mg3H2(SiO3)4) The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	> 25 - < 50 weight-%
CAS No.: 1675-54-3 EC No.: 216-823-5 Index No.: 603-073-00-2 REACH No.: 01-2119456619-26	Bis-[4-(2,3-epoxipropoxi)phenyl]propan Aquatic Chronic 2 (H411), Eye Irrit. 2 (H319), Skin Irrit. 2 (H315), Skin Sens. 1 (H317)  Warning Specific concentration limit (SCL) Eye Irrit. 2; H319: C ≥ 5% Skin Irrit. 2; H315: C ≥ 5% Acute Toxicity Estimate ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg	< 10 weight-%

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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 25068-38-6 EC No.: 500-033-5 Index No.: 603-074-00-8 REACH No.: 01-2119456619-26	Reaktionsprodukt: Bisphenol-A-Epichlorhydrinharze mit durchschnittlichem Molekulargewicht \leq 700 Aquatic Chronic 2 (H411), Eye Irrit. 2 (H319), Skin Irrit. 2 (H315), Skin Sens. 1 (H317) Warning Specific concentration limit (SCL) Eye Irrit. 2; H319: C \geq 5% Skin Irrit. 2; H315: C \geq 5% Acute Toxicity Estimate ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg	< 10 weight-%
CAS No.: 68410-23-1 EC No.: 614-452-7	Fatty acids, C18-unsatd dimers, reaction products with polyethylenepolyamines Aquatic Chronic 2 (H411), Eye Dam. 1 (H318), Skin Irrit. 2 (H315), Skin Sens. 1A (H317) Danger	< 10 weight-%
CAS No.: 1314-98-3 EC No.: 215-251-3	zinc sulphide The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	< 10 weight-%
CAS No.: 135108-88-2 EC No.: 203-950-6 Index No.: 612-059-00-5	Formaldehyde, polymer with bezenamine hydrogenated Acute Tox. 4 (H302), Aquatic Chronic 3 (H412), Eye Dam. 1 (H318), STOT RE 2 (H373), Skin Corr. 1C (H314), Skin Sens. 1 (H317) Danger Acute Toxicity Estimate ATE (oral) 500 mg/kg Additional information: ATE [Oral] = 500 mg/kg	< 1 weight-%
CAS No.: 112-24-3 EC No.: 203-950-6	3,6-Diazaoctanethylenlindiamin Acute Tox. 4 (H302), Aquatic Chronic 3 (H412), Eye Dam. 1 (H318), Skin Corr. 1B (H314), Skin Sens. 1 (H317) Danger Acute Toxicity Estimate ATE (oral) 805 mg/kg ATE (dermal) 1,100 mg/kg Additional information: ATE [Dermal] = 1100 mg/kg	< 1 weight-%
CAS No.: 84852-15-3 EC No.: 284-325-5 Index No.: 601-053-00-8	Phenol, 4-nonyl-, branched Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Dam. 1 (H318), Repr. 2 (H361fd), Skin Corr. 1B (H314) Danger Acute Toxicity Estimate ATE (oral) 1,300 mg/kg ATE (dermal) 805 mg/kg Additional information: ATE [Oral] 100 mg/kg M [Akut] = 10 M [Cronisch] = 10	< 1 weight-%

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Following inhalation:

Immediately call Poison Control Centre or a doctor. Remove the affected person to fresh air and immobilise in a position that facilitates breathing. If vapours are still suspected, the rescuer must wear a suitable respirator or self-contained breathing apparatus. If breathing is absent or irregular or if respiratory arrest occurs, artificial respiration or oxygen administration shall be initiated by trained personnel. It may be dangerous for the person giving first aid to give mouth-to-mouth resuscitation. If unconscious, place in the recovery position and seek immediate medical attention. Keep the airway open. Loosen tight-fitting clothing (e.g. collar, tie, belt or waistband).

In case of skin contact:

Immediately call Poison Control Centre or a doctor. Rinse contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing or

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wear gloves when doing so. Rinse continuously for at least 10 minutes. Chemical burns must be treated immediately by a doctor. Wash clothing before wearing again. Clean shoes thoroughly before reuse.

After eye contact:

Call a physician immediately. Immediately call a POISON CENTER or doctor/physician. Immediately rinse the eyes with a stream of running water, open the eyelids (with force if necessary); if the affected person has contact lenses, remove them immediately. Rinse for at least 10 minutes. Seek medical treatment, preferably from a specialist.

Following ingestion:

Immediately call Poison Control Centre or a doctor. Rinse mouth with water. Remove dentures if present. If the substance has been swallowed and the person is conscious, give small amounts of water to drink. If nausea occurs, do not allow to continue drinking as vomiting can be dangerous. Do not induce vomiting unless specifically instructed to do so by medical personnel. If vomiting occurs, keep the head low so that the vomit does not enter the lungs. Chemical burns must be treated immediately by a doctor. Never administer anything by mouth to an unconscious person. If unconscious, place in recovery position and seek immediate medical attention. Keep airways open. Loosen tight-fitting clothing (e.g. collar, tie, belt or waistband).

Self-protection of the first aider:

No action should be taken that involves personal risk or has not been adequately trained. If vapours are still suspected to be present, the rescuer must wear a suitable respirator or self-contained breathing apparatus. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Wash contaminated clothing thoroughly with water before taking it off or wear gloves when doing so.

4.2. Most important symptoms and effects, both acute and delayed

Eye contact: The following symptoms may occur: Pain, Tear flow, Redness
Inhalative: No data available

Dermal: The following symptoms may occur: Pain, Irritation, Redness, Blistering may occur.
Oral: The following symptoms may occur: Stomach pain

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. In case of ingestion or inhalation of large quantities, contact the Poison Control Centre specialist immediately.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Use an extinguishing agent that is also suitable for adjacent fires.

5.2. Special hazards arising from the substance or mixture

Toxic to aquatic life with long lasting effects. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Hazardous combustion products:

Developed during decay: Carbon dioxide Carbon monoxide Sulphur oxides halogenated compounds Metal Oxides/Oxides

5.3. Advice for firefighters

Special protective measures for firefighters: In case of fire, immediately seal off the scene and evacuate all persons from the danger area. No action should be taken that involves personal risk or has not been adequately trained.

Special protective equipment for firefighters: Firefighters should wear appropriate protective clothing and self-contained breathing apparatus with full facepiece operated in positive pressure mode. Clothing for firefighters (including helmet, protective boots and protective gloves) that complies with the European Standard EN 469 gives a basic protection in case of accidents with chemicals.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

No action should be taken that involves personal risk or has not been adequately trained. Evacuate the area. Deny access to non-essential and unprotected personnel. Do not touch or walk on spilled

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substance. Ensure adequate ventilation. Wear respirator if ventilation is inadequate. Put on suitable personal protective equipment.

6.1.2. For emergency responders

Personal protection equipment:

If special clothing is needed to handle the spill, refer to section 8 on suitable and unsuitable materials. See also information in "Non-emergency trained personnel".

6.2. Environmental precautions

Avoid dispersal and run-off of released material and contact with soil, water bodies, drains and sewers. Notify the competent authorities if the product has caused environmental pollution (sewage systems, surface waters, soil or air). Substance is water polluting. May be harmful to the environment if released in large quantities. Absorb spilled quantities.

6.3. Methods and material for containment and cleaning up

Other information:

Remove container from the discharge area. Avoid dust generation. Using a Hoover with a HEPA filter will reduce the spread of dust. Pour spilled material into a designated waste container. Dispose of through a recognised waste disposal company.

6.4. Reference to other sections

See section 1 for emergency contact information. See section 8 for information regarding appropriate personal protective equipment. For further information on disposal: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Persons with a history of hypersensitive skin should not perform any work involving this product. Put on suitable protective equipment (see section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not swallow. Avoid release to the environment. If the material presents a respiratory hazard in normal use, use only with adequate ventilation or wear suitable respiratory protection. Store in the original container or an approved replacement container made of a compatible material. Keep tightly closed when not in use. Empty containers contain product residues and may be hazardous. Do not reuse containers.

Advices on general occupational hygiene

Eating, drinking and smoking must be prohibited in areas where this substance is used, stored or processed. Persons handling the substance must wash their hands and face before eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering the eating area. See section 8 for further details on hygiene measures.

7.2. Conditions for safe storage, including any incompatibilities

Storage class (TRGS 510, Germany): 13 - Non-combustible solids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

Storage: Store according to local regulations. Store only in the original container. Protect from direct sunlight. Store only in dry, cool and well-ventilated areas. Do not store with incompatible substances (see section 10) or with food or drink. Store under lock and key. Keep containers tightly closed and sealed until use. Containers which have been opened should be carefully closed and stored upright to prevent leakage. Do not store in unlabelled containers. Use suitable containers to avoid environmental contamination. See section 10 on incompatible materials before handling or use.

Seveso Directive - notification thresholds Hazard criteria Category E2 Notification and limit MAPP limit: 200 tonnes, safety report limit: 500 tonnes.

7.3. Specific end use(s)

No data available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	Talc (Mg ₃ H ₂ (SiO ₃) ₄) CAS No.: 14807-96-6 EC No.: 238-877-9	① 2 mg/m ³ ⑤ (alveolengängige Fraktion)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
Bis-[4-(2,3-epoxipropoxy)phenyl]propan CAS No.: 1675-54-3 EC No.: 216-823-5	4.93 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Bis-[4-(2,3-epoxipropoxy)phenyl]propan CAS No.: 1675-54-3 EC No.: 216-823-5	0.87 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Bis-[4-(2,3-epoxipropoxy)phenyl]propan CAS No.: 1675-54-3 EC No.: 216-823-5	0.75 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Bis-[4-(2,3-epoxipropoxy)phenyl]propan CAS No.: 1675-54-3 EC No.: 216-823-5	0.089 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Bis-[4-(2,3-epoxipropoxy)phenyl]propan CAS No.: 1675-54-3 EC No.: 216-823-5	0.5 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
Reaktionsprodukt: Bisphenol-A-Epichlorhydrinharze mit durchschnittlichem Molekulargewicht <= 700 CAS No.: 25068-38-6 EC No.: 500-033-5	12.3 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Reaktionsprodukt: Bisphenol-A-Epichlorhydrinharze mit durchschnittlichem Molekulargewicht <= 700 CAS No.: 25068-38-6 EC No.: 500-033-5	0.75 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Reaktionsprodukt: Bisphenol-A-Epichlorhydrinharze mit durchschnittlichem Molekulargewicht <= 700 CAS No.: 25068-38-6 EC No.: 500-033-5	12.3 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
Reaktionsprodukt: Bisphenol-A-Epichlorhydrinharze mit durchschnittlichem Molekulargewicht <= 700 CAS No.: 25068-38-6 EC No.: 500-033-5	0.75 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
Reaktionsprodukt: Bisphenol-A-Epichlorhydrinharze mit durchschnittlichem Molekulargewicht <= 700 CAS No.: 25068-38-6 EC No.: 500-033-5	8.3 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Reaktionsprodukt: Bisphenol-A-Epichlorhydrinharze mit durchschnittlichem Molekulargewicht <= 700 CAS No.: 25068-38-6 EC No.: 500-033-5	3.6 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Reaktionsprodukt: Bisphenol-A-Epichlorhydrinharze mit durchschnittlichem Molekulargewicht <= 700 CAS No.: 25068-38-6 EC No.: 500-033-5	8.3 mg/kg bw/day	① DNEL worker ② Acute - dermal, systemic effects
Reaktionsprodukt: Bisphenol-A-Epichlorhydrinharze mit durchschnittlichem Molekulargewicht <= 700 CAS No.: 25068-38-6 EC No.: 500-033-5	3.6 mg/kg bw/day	① DNEL worker ② Acute - dermal, systemic effects
Reaktionsprodukt: Bisphenol-A-Epichlorhydrinharze mit durchschnittlichem Molekulargewicht <= 700 CAS No.: 25068-38-6 EC No.: 500-033-5	0.75 mg/kg bw/day	① DNEL worker ② Long-term - oral, systemic effects
Reaktionsprodukt: Bisphenol-A-Epichlorhydrinharze mit durchschnittlichem Molekulargewicht <= 700 CAS No.: 25068-38-6 EC No.: 500-033-5	0.75 mg/kg bw/day	① DNEL worker ② Acute - oral, systemic effects

Substance name	PNEC Value	① PNEC type
Bis-[4-(2,3-epoxipropoxy)phenyl]propan CAS No.: 1675-54-3 EC No.: 216-823-5	0.006 mg/L	① PNEC aquatic, freshwater
Bis-[4-(2,3-epoxipropoxy)phenyl]propan CAS No.: 1675-54-3 EC No.: 216-823-5	0.001 mg/L	① PNEC aquatic, marine water
Bis-[4-(2,3-epoxipropoxy)phenyl]propan CAS No.: 1675-54-3 EC No.: 216-823-5	10 mg/L	① PNEC sewage treatment plant
Bis-[4-(2,3-epoxipropoxy)phenyl]propan CAS No.: 1675-54-3 EC No.: 216-823-5	0.341 mg/kg	① PNEC sediment, freshwater

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Substance name	PNEC Value	① PNEC type
Bis-[4-(2,3-epoxipropoxy)phenyl]propan CAS No.: 1675-54-3 EC No.: 216-823-5	0.034 mg/kg	① PNEC sediment, marine water
Bis-[4-(2,3-epoxipropoxy)phenyl]propan CAS No.: 1675-54-3 EC No.: 216-823-5	0.065 mg/kg	① PNEC soil
Reaktionsprodukt: Bisphenol-A-Epichlorhydrinharze mit durchschnittlichem Molekulargewicht <= 700 CAS No.: 25068-38-6 EC No.: 500-033-5	0.006 mg/L	① PNEC aquatic, freshwater
Reaktionsprodukt: Bisphenol-A-Epichlorhydrinharze mit durchschnittlichem Molekulargewicht <= 700 CAS No.: 25068-38-6 EC No.: 500-033-5	6 µg/L	① PNEC aquatic, marine water
Reaktionsprodukt: Bisphenol-A-Epichlorhydrinharze mit durchschnittlichem Molekulargewicht <= 700 CAS No.: 25068-38-6 EC No.: 500-033-5	10 mg/L	① PNEC sewage treatment plant
Reaktionsprodukt: Bisphenol-A-Epichlorhydrinharze mit durchschnittlichem Molekulargewicht <= 700 CAS No.: 25068-38-6 EC No.: 500-033-5	0.996 mg/kg	① PNEC sediment, freshwater
Reaktionsprodukt: Bisphenol-A-Epichlorhydrinharze mit durchschnittlichem Molekulargewicht <= 700 CAS No.: 25068-38-6 EC No.: 500-033-5	0.0996 mg/kg	① PNEC sediment, marine water
Reaktionsprodukt: Bisphenol-A-Epichlorhydrinharze mit durchschnittlichem Molekulargewicht <= 700 CAS No.: 25068-38-6 EC No.: 500-033-5	0.196 mg/kg	① PNEC soil

8.2. Exposure controls

8.2.1. Appropriate engineering controls

If the work generates dust, fumes, gas, vapours or mists, use process chambers, local exhaust ventilation systems or other technical devices to keep worker exposure below recommended or legally required limits.

8.2.2. Personal protection equipment

Eye/face protection:

If the risk assessment so requires, protective goggles complying with a recognised standard should be worn to prevent exposure to liquid splashes, mists, gases or dusts. If contact is possible then the following protective equipment must be worn unless the assessment requires a higher level of protection: chemical splash goggles and/or face shield. In the case of inhalation hazards, a full face respirator may be required instead.

Skin protection:

Hand protection: When handling chemical products, chemical-resistant, impervious gloves complying with a recognised standard must always be worn if a risk assessment so requires. Taking into account

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the parameters specified by the glove manufacturer, it must be checked during use that the gloves still ensure their protective properties. It should be noted that the breakthrough time for glove material may vary for different glove manufacturers. Recommended : 1-4 hours (penetration time): Nitrile rubber ; 4-8 hours (penetration time): Viton®/Butyl rubber

Body protection: Before handling this product, personal protective equipment should be selected based on the task to be performed and the risks involved, and approved by a specialist.

Other: Skin protection Select appropriate footwear and additional skin protection measures based on the task to be performed and the hazards involved, and obtain prior approval from a professional.

Respiratory protection:

Based on the hazard and risk of exposure, select the respirator that meets the appropriate standards and has the appropriate certifications. Respirators must be used according to the respiratory protection programme to ensure proper fit, adequate training and other important aspects of use. Recommended: Respiratory protection is not required if the room is well ventilated.

Other protection measures:

Hygienic measures: Wash hands, forearms and face thoroughly after handling chemical product and at the end of the working day, as well as before eating, smoking and visiting the toilet. Choose appropriate method for removing contaminated clothing. Do not wear contaminated clothing outside the workplace. Wash contaminated clothing before reuse. Ensure that eyewash stations and safety showers are available near the work area.

8.2.3. Environmental exposure controls

Emissions from ventilation and process equipment should be checked to ensure that they meet the requirements of environmental legislation. In some cases, exhaust air scrubber filters or engineering changes to process equipment will be required to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: solid

Colour: Braun.

Odour: inconspicuous

Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	No data available	
Melting point	No data available	
Freezing point	No data available	
Initial boiling point and boiling range	> 35 °C	
Flash point	> 100 °C	
Evaporation rate	No data available	
Vapour pressure	< 0 kPa	
Density	1.9 g/cm ³	
Bulk density	No data available	
Water solubility	No data available	

particle characteristics:

No data available

9.2. Other information

No data available

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SECTION 10: Stability and reactivity

10.1. Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2. Chemical stability

The product is: Stabil

10.3. Possibility of hazardous reactions

Under normal storage conditions and in normal use, no dangerous reactions occur.

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

Very reactive or incompatible with the following substances: Oxidising materials and reducing materials

Reactive or incompatible with the following substances: alkalines

SECTION 11: Toxicological information

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

Bis-[4-(2,3-epoxipropoxy)phenyl]propan CAS No.: 1675-54-3 EC No.: 216-823-5
LD₅₀ oral: >2,000 mg/kg (Rat) OECD 420
LD₅₀ dermal: >2,000 mg/kg (Rat) OECD 402
Reaktionsprodukt: Bisphenol-A-Epichlorhydrinharze mit durch-schnittlichem Molekulargewicht <= 700 CAS No.: 25068-38-6 EC No.: 500-033-5
LD₅₀ oral: >2,000 mg/kg (Rat)
LD₅₀ dermal: >2,000 mg/kg (Rat)
3,6-Diazaoctanethylenidiamin CAS No.: 112-24-3 EC No.: 203-950-6
ATE (dermal): 1,100 mg/kg
LD₅₀ oral: 805 mg/kg (Rabbit)
LD₅₀ dermal: 2,500 mg/kg (Rat)
Phenol, 4-nonyl-, branched CAS No.: 84852-15-3 EC No.: 284-325-5
LD₅₀ oral: 1,300 mg/kg (Ratte)
LD₅₀ dermal: 805 mg/kg (Kaninchen)

Acute oral toxicity:

This information is not available.

Acute dermal toxicity:

This information is not available.

Acute inhalation toxicity:

This information is not available.

Skin corrosion/irritation:

Causes skin irritation. May cause an allergic skin reaction.

Serious eye damage/irritation:

Causes serious eye damage.

Respiratory or skin sensitisation:

After sensitisation, severe allergic reactions can occur with subsequent exposure to very small amounts.

Germ cell mutagenicity:

No particular effects or hazards known.

Carcinogenicity:

This information is not available.

Reproductive toxicity:

This information is not available.

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STOT-single exposure:

This information is not available.

STOT-repeated exposure:

Formaldehyde, polymer with benzenamine, hydrogenated; Category 2; Exposure route: oral; Specific Target Organ Toxicity: kidneys

Aspiration hazard:

This information is not available.

Additional information:

This information is not available.

11.2. Information on other hazards

Endocrine disrupting properties:

This information is not available.

Other information:

This information is not available.

SECTION 12: Ecological information

12.1. Toxicity

Talc (Mg₃H₂(SiO₃)₄) CAS No.: 14807-96-6 EC No.: 238-877-9
LC ₅₀ : >100 mg/L 1 d
Bis-[4-(2,3-epoxipropoxy)phenyl]propan CAS No.: 1675-54-3 EC No.: 216-823-5
LC ₅₀ : 1.5 – 2 mg/L 4 d (fish, Oncorhynchus mykiss) OECD 203
EC ₅₀ : 1.8 – 2.7 mg/L 2 d (crustaceans, Daphnia magna) OECD 202
NOEC: 4.2 mg/L 3 d (Algae/water plant, Scenedesmus subspicatus)
NOEC: 0.3 mg/L 21 d (crustaceans, Daphnia magna) OECD 211
LC ₅₀ : 9.4 mg/L 3 d (Algae/water plant, Selenastrum capricornutum) U.S. EPA ECOTOX Database
Reaktionsprodukt: Bisphenol-A-Epichlorhydrinharze mit durch-schnittlichem Molekulargewicht <= 700 CAS No.: 25068-38-6 EC No.: 500-033-5
LC ₅₀ : 2 mg/L 4 d (fish)
EC ₅₀ : 1.8 mg/L 2 d (crustaceans)
3,6-Diazaoctanethylenlindiamin CAS No.: 112-24-3 EC No.: 203-950-6
LC ₅₀ : 33.9 mg/L 2 d (Algae/water plant, Daphnia magna)
EC ₅₀ : 10 mg/L (Algae/water plant, Macrocystis pyrifera)
EC ₅₀ : 94 mg/L 4 d (Algae/water plant, Lemna aequinoctialis)
LC ₅₀ : 0.8 mg/L 2 d (crustaceans, Archaeomysis kokuboi)
LC ₅₀ : 0.002 mg/L 4 d (fish, Cyprinus carpio)
NOEC: 0.016 mg/L 3 d (Algae/water plant, Hormosira banksii)
NOEC: 1.5 mg/L 21 d (Algae/water plant, Daphnia magna)
NOEC: 0.118 mg/L (fish, Oncorhynchus mykiss)
Phenol, 4-nonyl-, branched CAS No.: 84852-15-3 EC No.: 284-325-5
LC ₅₀ : 0.017 mg/L 4 d (fish, Pleuronectes americanus)
EC ₅₀ : 0.027 mg/L 4 d (Algae/water plant, Skeletonema costatum)
EC ₅₀ : 0.03 mg/L 3 d (Algae/water plant, Skeletonema costatum)
EC ₅₀ : 0.044 mg/L 2 d (crustaceans, Moina macrocopa)
NOEC: 5 mg/L 21 d (crustaceans, Gammarus fossarum)
NOEC: 7.4 mg/L 33 d (fish, Pimephales promelas)

12.2. Persistence and degradability

Bis-[4-(2,3-epoxipropoxy)phenyl]propan CAS No.: 1675-54-3 EC No.: 216-823-5
Biodegradation: Yes, slowly

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Reaktionsprodukt: Bisphenol-A-Epichlorhydrinharze mit durch-schnittlichem Molekulargewicht <= 700

CAS No.: 25068-38-6 EC No.: 500-033-5

Biodegradation: Yes, slowly

3,6-Diazaoctanethyldiamin CAS No.: 112-24-3 EC No.: 203-950-6

Biodegradation: Yes, slowly

12.3. Bioaccumulative potential

Bis-[4-(2,3-epoxipropoxy)phenyl]propan CAS No.: 1675-54-3 EC No.: 216-823-5

Log K_{OW}: 3.78

Bioconcentration factor (BCF): 31

Reaktionsprodukt: Bisphenol-A-Epichlorhydrinharze mit durch-schnittlichem Molekulargewicht <= 700

CAS No.: 25068-38-6 EC No.: 500-033-5

Log K_{OW}: 3.78

Bioconcentration factor (BCF): 31

Formaldehyde, polymer with bezenamine hydrogenated CAS No.: 135108-88-2 EC No.: 203-950-6

Bioconcentration factor (BCF): 219

3,6-Diazaoctanethyldiamin CAS No.: 112-24-3 EC No.: 203-950-6

Log K_{OW}: -1.66

Phenol, 4-nonyl-, branched CAS No.: 84852-15-3 EC No.: 284-325-5

Log K_{OW}: 5.4

Bioconcentration factor (BCF): 720

Accumulation / Evaluation:

This information is not available.

12.4. Mobility in soil

This information is not available.

12.5. Results of PBT and vPvB assessment

Talc (Mg₃H₂(SiO₃)₄) CAS No.: 14807-96-6 EC No.: 238-877-9

Results of PBT and vPvB assessment: —

Bis-[4-(2,3-epoxipropoxy)phenyl]propan CAS No.: 1675-54-3 EC No.: 216-823-5

Results of PBT and vPvB assessment: —

Reaktionsprodukt: Bisphenol-A-Epichlorhydrinharze mit durch-schnittlichem Molekulargewicht <= 700

CAS No.: 25068-38-6 EC No.: 500-033-5

Results of PBT and vPvB assessment: —

Fatty acids, C18-unsatd dimers, reaction products with polyethylenepolyamines CAS No.: 68410-23-1
EC No.: 614-452-7

Results of PBT and vPvB assessment: —

Formaldehyde, polymer with bezenamine hydrogenated CAS No.: 135108-88-2 EC No.: 203-950-6

Results of PBT and vPvB assessment: —

3,6-Diazaoctanethyldiamin CAS No.: 112-24-3 EC No.: 203-950-6

Results of PBT and vPvB assessment: —

Phenol, 4-nonyl-, branched CAS No.: 84852-15-3 EC No.: 284-325-5

Results of PBT and vPvB assessment: —

zinc sulphide CAS No.: 1314-98-3 EC No.: 215-251-3

Results of PBT and vPvB assessment: —

12.6. Endocrine disrupting properties

May cause hormone imbalances

12.7. Other adverse effects

No particular effects or hazards known.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

08 04 09 *	Waste adhesives and sealants containing organic solvents or other dangerous substances
------------	--

*: Evidence for disposal must be provided.

Waste code packaging

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

*: Evidence for disposal must be provided.

Waste treatment options

Appropriate disposal / Product:

Waste generation should be avoided or minimised wherever possible. Disposal of this product and its solutions and by-products must at all times be carried out in compliance with environmental protection requirements and waste disposal legislation and the requirements of local authorities. be carried out. Dispose of surpluses and products not suitable for recycling via a recognised waste disposal company. Do not discharge waste untreated into the sewerage system unless all applicable regulations of the authorities are complied with.







Appropriate disposal / Package:

Waste generation should be avoided or minimised where possible. Packaging waste should be recycled. Incineration or landfilling should only be considered if recycling is not feasible.

13.2. Additional information

Waste and containers must be disposed of in a safe manner. Take care when handling empty containers that have not been cleaned or rinsed out. Empty dispersal and run-off of released material and contact with soil, water bodies, drains and sewers.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 3077	No dangerous good in sense of these transport regulations.	UN 3077	UN 3077
14.2. UN proper shipping name			
	No dangerous good in sense of these transport regulations.		propan, Reaktionsprodukt: propan, Reaktionsprodukt: Bisphenol-A- Bisphenol-A- Epichlorhydrinharze) Epichlorhydrinharze) Epichlorhydrinharze)
14.3. Transport hazard class(es)			
 9	not relevant	 9	 9
14.4. Packing group			
III	not relevant	III	III
14.5. Environmental hazards			
	not relevant	 MARINE POLLUTANT	

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.6. Special precautions for user			
Special Provisions: Transport on the factory premises: only transport in closed containers that are upright and firm. Persons transporting the product must be instructed in the correct behaviour in case of accidents, leakage or spillage. Classification code: - Tunnel restriction code: (-) Remark: When transported in sizes ≤ 5 l or ≤ 5 kg, this product is not regulated as dangerous goods provided that the packagings comply with the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.	not relevant	Remark: When transported in sizes ≤ 5 l or ≤ 5 kg, this product is not regulated as dangerous goods provided that the packagings comply with the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.	Remark: When transported in sizes ≤ 5 l or ≤ 5 kg, this product is not regulated as dangerous goods provided that the packagings comply with the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Other regulations (EU):

This product is not assigned to a hazard category.

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

No data available

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%
ES	Exposure scenario
EWC	European Waste Catalogue

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HEPA	High Efficiency Particulate Air
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
KG	body weight
LC ₅₀	Lethal (fatal) Concentration 50%
LD ₅₀	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
SCL	Specific concentration limit
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations

16.3. Key literature references and sources for data

No data available

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 2</i>)	H411: Toxic to aquatic life with long lasting effects.	

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

16.6. Training advice

No data available

16.7. Additional information

No data available