Techno Stick Steel 56g

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

1.1. Product identifier

Trade name/designation:

Techno Stick Steel 56g

Article No.:
T638001

UFI:
Q8S3-WDFY-S0FR-AEYT

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

Use of the substance/mixture:
Adhesives and sealants

1.3. Details of the supplier of the safety data sheet

Supplier:

KANDO Service GmbH
Hartleitnerstraße 3
4653 Eberstalzell
Austria
Telephone: +43 (0) 7241 213 79
E-mail: msds@kando.eu

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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 *(Skin Irrit. 2)*	H315: Causes skin irritation.	
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	
Respiratory or skin sensitisation *(Skin Sens. 1)*	H317: May cause an allergic skin reaction.	
Hazardous to the aquatic environment *(Aquatic Chronic 3)*	H412: Harmful to aquatic life with long lasting effects.	

2.2. Label elements

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

Hazard pictograms:



GHS07
Exclamation mark

Signal word: Warning

Hazard components for labelling:
Bis-[4-(2,3-epoxipropoxi)phenyl]propan; 4,4'-Methylen-diphenyldiglycidylether; Bisphenol-A-diglycidylether; Bis(4,4'-glycidyloxyphenyl)-propan; Polymercaptan resin (reaction product of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulphide)

Hazard statements for health hazards	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

Hazard statements for environmental hazards	
H412	Harmful to aquatic life with long lasting effects.

Supplemental hazard information	
EUH212	Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

Precautionary statements Prevention	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing and eye protection/face protection.

Precautionary statements Response	
P302 + P352	IF ON SKIN: Wash with plenty of water and soap.

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

2.3. Other hazards

Other adverse effects:
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. Persons suffering from skin sensitisation problems, asthma, allergies, chronic or repeated respiratory diseases should not be used in any processing involving this mixture. Use of the product will produce: Reaction product: Bisphenol A Epichlorohydrin; Epoxy resin (number average molecular weight <= 700) Contains epoxy-containing compounds. May cause allergic reactions.

SECTION 3: Composition/information on ingredients

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3.2. Mixtures

Additional information:
titanium dioxide: Particle size = > 10µm

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	**Substance name** **Classification according to Regulation (EC) No 1272/2008 [CLP]**	**Concentration**
CAS No.: 1675-54-3 EC No.: 216-823-5 REACH No.: 01-2119456619-26	**Bis-[4-(2,3-epoxipropoxi)phenyl]propan; 4,4'-Methylen-diphenyldiglycidylether; Bisphenol-A-diglycidylether; Bis(4,4'-glycidyloxyphenyl)-propan** Aquatic Chronic 2 (H411), Eye Irrit. 2 (H319), Skin Irrit. 2 (H315), Skin Sens. 1 (H317)  Warning **Specific concentration limit (SCL)** Skin Irrit. 2; H315: 5% ≤ C < 100% Eye Irrit. 2; H319: 5% ≤ C < 100%	10 – < 20 weight-%
CAS No.: 72244-98-5 REACH No.: 01-2120118957-46	**Polymercaptan resin (reaction product of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulphide)** Aquatic Chronic 3 (H412), Skin Sens. 1B (H317)  Warning **Acute Toxicity Estimate** ATE (oral) 2,600 mg/kg ATE (dermal) 10,200 mg/kg	10 – < 20 weight-%

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 90-72-2 EC No.: 202-013-9 REACH No.: 01-2119560597-27	**2,4,6-Tri-(dimethylaminomethyl)phenol** Acute Tox. 4 (H302), Eye Irrit. 2 (H319), Skin Irrit. 2 (H315) Warning **Acute Toxicity Estimate** ATE (oral) 500 mg/kg ATE (dermal) 1,280 mg/kg	< 5 weight-%
CAS No.: 13463-67-7 EC No.: 236-675-5 REACH No.: 01-2119489379-17	**titanium dioxide** The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. **Acute Toxicity Estimate** ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, vapour) 5 mg/L ATE (inhalation, dust/mist) 3.43 – 5.09 mg/L	1 – < 5 weight-%

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:
When in doubt or if symptoms are observed, get medical advice.
Take off immediately all contaminated clothing and wash it before reuse.

Following inhalation:
Remove casualty to fresh air and keep warm and at rest. If unconscious but breathing normally, place in recovery position and seek medical advice. If experiencing respiratory symptoms: Call a doctor.

In case of skin contact:
Take off contaminated clothing and wash it before reuse. Gently wash with plenty of soap and water. In case of skin reactions, consult a physician.

After eye contact:
In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Protect uninjured eye.

Following ingestion:
Rinse mouth thoroughly with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed
No information available.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Carbon dioxide (CO2), Foam, Dry extinguishing powder
Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media:
Full water jet

5.2. Special hazards arising from the substance or mixture
In case of fire may be liberated: Pyrolysis products, toxic (Carbon monoxide, Carbon dioxide (CO2))

5.3. Advice for firefighters
In case of fire: Wear self-contained breathing apparatus. Full protection suit.

5.4. Additional information
Use water spray jet to protect personnel and to cool endangered containers.
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:
Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

Protective equipment:
Provide adequate ventilation. Use personal protection equipment.

6.1.2. For emergency responders

Personal protection equipment:
Personal protection equipment: see section 8.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment.

6.3. Methods and material for containment and cleaning up

For containment:
Cover drains.

For cleaning up:
Take up mechanically, placing in appropriate containers for disposal. Treat the recovered material as prescribed in the section on waste disposal.

Other information:
Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

See section 7 for further information on safe handling.
For further information on personal protective equipment: see section 8.
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:
Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

Fire prevent measures:
Usual measures for fire prevention.

Advices on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:
Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on storage assembly:
Keep away from: Food and feedingstuffs
Do not store together with: Oxidizing agent
Protect from direct sunlight.

Storage class (TRGS 510, Germany): 11 – Combustible solids that cannot be assigned to any of the above storage classes

Further information on storage conditions:
Recommended storage temperature: 5°C - 25°C

7.3. Specific end use(s)

Recommendation:
Adhesives and sealants

SECTION 8: Exposure controls/personal protection

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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) from 11 Sept 2007	**titanium dioxide** CAS No.: 13463-67-7 EC No.: 236-675-5	② 10 mg/m³ ⑤ (alveolengängige Fraktion, max. 2x60 min./Schicht)
MAK (AT) from 11 Sept 2007	**titanium dioxide** CAS No.: 13463-67-7 EC No.: 236-675-5	① 5 mg/m³ 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
Polymercaptan resin (reaction product of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulphide) CAS No.: 72244-98-5	22 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
Polymercaptan resin (reaction product of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulphide) CAS No.: 72244-98-5	6.52 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
Polymercaptan resin (reaction product of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulphide) CAS No.: 72244-98-5	2.7 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Polymercaptan resin (reaction product of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulphide) CAS No.: 72244-98-5	1.61 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects

Substance name	DNEL value	① DNEL type ② Exposure route
Polymercaptan resin (reaction product of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulphide) CAS No.: 72244-98-5	1.9 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects

Substance name	PNEC Value	① PNEC type
Polymercaptan resin (reaction product of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulphide) CAS No.: 72244-98-5	0.07 mg/L	① PNEC aquatic, freshwater
Polymercaptan resin (reaction product of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulphide) CAS No.: 72244-98-5	0.007 mg/L	① PNEC aquatic, marine water
Polymercaptan resin (reaction product of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulphide) CAS No.: 72244-98-5	10 mg/L	① PNEC sewage treatment plant
Polymercaptan resin (reaction product of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulphide) CAS No.: 72244-98-5	0.322 mg/kg	① PNEC sediment, freshwater
Polymercaptan resin (reaction product of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulphide) CAS No.: 72244-98-5	0.032 mg/kg	① PNEC sediment, marine water
Polymercaptan resin (reaction product of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulphide) CAS No.: 72244-98-5	0.023 mg/kg	① PNEC soil
2,4,6-Tri-(dimethylaminomethyl)phenol CAS No.: 90-72-2 EC No.: 202-013-9	0.084 mg/L	① PNEC aquatic, freshwater
2,4,6-Tri-(dimethylaminomethyl)phenol CAS No.: 90-72-2 EC No.: 202-013-9	0.008 mg/L	① PNEC aquatic, marine water
2,4,6-Tri-(dimethylaminomethyl)phenol CAS No.: 90-72-2 EC No.: 202-013-9	0.2 mg/L	① PNEC sewage treatment plant

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

8.2.2. Personal protection equipment



Eye/face protection:
Wear eye protection/face protection. (DIN EN 166)

Skin protection:
Hand protection:
Wear suitable protective gloves in case of prolonged or repeated skin contact. (EN ISO 374)
In case of continuous contact: > 0.4 mm/ butyl rubber, > 480 min (EN 374-1/-2/-3).
In case of splash contact: > 0.4 mm/ nitrile rubber, > 480 min (EN 374-1/-2/-3).
These are recommendations only. For further information please contact the glove supplier.
When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Body protection:
Wear suitable protective clothing when working.

Respiratory protection:
In case of inadequate ventilation wear respiratory protection.

Thermal hazards:
No information available.

Other protection measures:
The design of the personal protective equipment must be selected specifically for the workplace, depending on the concentration and quantity of hazardous substances. The chemical resistance of the protective equipment should be clarified with their suppliers. Do not breathe vapours. Avoid contact with eyes and skin.

8.2.3. Environmental exposure controls
Avoid release to the environment.

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties

Appearance

Form: Paste
Colour: various
Odour: characteristic
flammability: No data available
Odour threshold: No information available.

Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	*not applicable*	
Melting point	*No data available*	
Freezing point	*No data available*	
Initial boiling point and boiling range	*No data available*	
Flash point	> 100 °C	
Evaporation rate	*No data available*	
Upper/lower flammability or explosive limits	*not applicable*	
Vapour pressure	*No data available*	
Density	1.9 – 2.09 g/cm³	
Bulk density	*not applicable*	
Water solubility	Immiscible	

Parameter	Value	① Method ② Remark
Kinematic viscosity	*not applicable*	

particle characteristics:
No data available

9.2. Other information
No further relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity
No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability
The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions
No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid
Protect against: Heat, Frost

10.5. Incompatible materials
No information available.

10.6. Hazardous decomposition products
In case of fire may be liberated: Pyrolysis products, toxic (Carbon monoxide, Carbon dioxide (CO2))

SECTION 11: Toxicological information

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

Toxicological information

Acute Toxicity Estimate for Mixtures
Polymercaptan resin (reaction product of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulphide) CAS No.: 72244-98-5
LD_{50} oral: 2,600 mg/kg (Rat)
LD_{50} dermal: 10,200 mg/kg (Rabbit)
2,4,6-Tri-(dimethylaminomethyl)phenol CAS No.: 90-72-2 EC No.: 202-013-9
LD_{50} oral: 1,200 mg/kg (Rat)
LD_{50} dermal: 1,280 mg/kg (Rat)
titanium dioxide CAS No.: 13463-67-7 EC No.: 236-675-5
LD_{50} oral: >2,000 mg/kg (Rat)
LD_{50} dermal: >2,000 mg/kg (Rabbit)
LC_{50} Acute inhalation toxicity (vapour): 5 mg/L 4 h
LC_{50} Acute inhalation toxicity (dust/mist): 3.43 – 5.09 mg/L 4 h OECD 403

Skin corrosion/irritation:
Causes skin irritation.

Serious eye damage/irritation:
Causes serious eye irritation.

Respiratory or skin sensitisation:
May cause an allergic skin reaction. (Bis-[4-(2,3-epoxipropoxi)phenyl]propan; 4,4'-Methylen-diphenyldiglycidylether; Bisphenol-A-diglycidylether; Bis(4,4'-glycidyloxyphenyl)-propan; Polymercaptan resin (reaction product of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulphide))

Germ cell mutagenicity:
Based on available data, the classification criteria are not met.

Carcinogenicity:
Based on available data, the classification criteria are not met.

Reproductive toxicity:
Based on available data, the classification criteria are not met.

STOT-single exposure:
Based on available data, the classification criteria are not met.

STOT-repeated exposure:
Based on available data, the classification criteria are not met.

Aspiration hazard:
Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties:
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 12: Ecological information

12.1. Toxicity

Polymercaptan resin (reaction product of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulphide) CAS No.: 72244-98-5
LC_{50}: 87 mg/L 4 d (fish, Danio rerio)
EC_{50}: 12 mg/L 2 d (crustaceans, Daphnia magna)
2,4,6-Tri-(dimethylaminomethyl)phenol CAS No.: 90-72-2 EC No.: 202-013-9
LC_{50}: 175 mg/L 4 d (fish)
EC_{50}: 84 mg/L 3 d (Algae/water plant)
NOEC: 2 mg/L 28 d

Assessment/classification:
No further relevant information available.

12.2. Persistence and degradability

Abiotic degradation:
No information available.

Biodegradation:
No information available.

12.3. Bioaccumulative potential

Bioconcentration factor (BCF):
No information available.

Accumulation / Evaluation:
No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

Bis-[4-(2,3-epoxipropoxi)phenyl]propan; 4,4'-Methylen-diphenyldiglycidylether; Bisphenol-A-diglycidylether; Bis(4,4'-glycidyloxyphenyl)-propan CAS No.: 1675-54-3 EC No.: 216-823-5
Results of PBT and vPvB assessment: —
Polymercaptan resin (reaction product of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulphide) CAS No.: 72244-98-5
Results of PBT and vPvB assessment: —
2,4,6-Tri-(dimethylaminomethyl)phenol CAS No.: 90-72-2 EC No.: 202-013-9
Results of PBT and vPvB assessment: —
titanium dioxide CAS No.: 13463-67-7 EC No.: 236-675-5
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
This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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12.7. Other adverse effects
Avoid release to the environment.
water hazard class 2: obviously hazardous to water

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.
The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

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:
Dispose of as hazardous waste. Dispose of to an incineration plant in accordance with local regulations.

Appropriate disposal / Package:
Handle contaminated packages in the same way as the substance itself.

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			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

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14.7. Maritime transport in bulk according to IMO instruments
not applicable

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Restrictions on use:

Restrictions on use (REACH, Annex XVII)
Entry 3, Entry 75

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

* **16.1. Indication of changes**

1.4.	Emergency telephone number
3.2.	Mixtures
8.1.	Control parameters
9.1.	Information on basic physical and chemical properties
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
12.7.	Other adverse effects
14.3.	Transport hazard class(es)
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
16.1.	Indication of changes
16.2.	Abbreviations and acronyms

* **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
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC_{50}	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
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 *(Skin Irrit. 2)*	H315: Causes skin irritation.	
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	
Respiratory or skin sensitisation *(Skin Sens. 1)*	H317: May cause an allergic skin reaction.	
Hazardous to the aquatic environment *(Aquatic Chronic 3)*	H412: Harmful 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.
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.
H412	Harmful to aquatic life with long lasting effects.

16.6. Training advice
No data available

16.7. Additional information
To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.

* Data changed compared with the previous version.