technotrans

Safety Data Sheet

according to UK REACH Regulation

ci 23

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

1.1. Product identifier

ci 23

Product group: Zulieferprodukt
UFI: 04UF-MNAT-PRJ6-5U7C

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

Use of the substance/mixture

Water treatment chemicals

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Company name: technotrans solutions GmbH
Street: Scherl 10
Place: D-58540 Meinerzhagen
Telephone: +49 2354 7060 - 0 Telefax: +49 2354 7060 - 150
E-mail (Contact person): info-solutions@technotrans.de
Internet: www.technotrans.de
Responsible Department: Wassertechnik

1.4. Emergency telephone number:

Giftnotruf Berlin +49 (0) 30 30686700

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Met. Corr. 1; H290
Skin Corr. 1A; H314
Eye Dam. 1; H318
Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

potassium hydroxide; caustic potash
Reaction mass of trisodium 2-(hydroxyphosphinato)succinate and pentasodium 1-(hydroxyphosphinato)butane-1,2,3,4-tetracarboxylate

Signal word: Danger

Pictograms:

Hazard statements

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264	Wash ... thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see ... on this label).

Additional advice on labelling

The product is classified and labelled according to EC directives or corresponding national laws.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Formulation of preparations (mixtures)

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
1312-76-1	Potassium silicate			15 - < 20 %
	215-199-1		01-2119456888-17	
	Skin Irrit. 2, Eye Irrit. 2; H315 H319			
1310-58-3	potassium hydroxide; caustic potash			5 - < 10 %
	215-181-3	019-002-00-8	01-2119487136-33	
	Acute Tox. 4, Skin Corr. 1A; H302 H314			
95-14-7	benzotriazole			1 - < 5 %
	202-394-1		01-2119979079-20	
	Acute Tox. 4, Eye Irrit. 2, Aquatic Chronic 2; H302 H319 H411			
	Reaction mass of trisodium 2-(hydroxyphosphinato)succinate and pentasodium 1-(hydroxyphosphinato)butane-1,2,3,4-tetracarboxylate			1 - < 5 %
	701-079-0		01-2120227654-56	
	Skin Sens. 1; H317			
37971-36-1	2-phosphonobutane-1,2,4-tricarboxylic acid (PBTC) (also sodium salt)			1 - < 5 %
	253-733-5		01-2119436643-00	
	Met. Corr. 1, Eye Irrit. 2; H290 H319			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
1310-58-3	215-181-3	potassium hydroxide; caustic potash	5 - < 10 %
	oral: LD50 = 273 mg/kg Skin Corr. 1A; H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0,5 - < 2 Eye Irrit. 2; H319: >= 0,5 - < 2		
95-14-7	202-394-1	benzotriazole	1 - < 5 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 500 mg/kg		
	701-079-0	Reaction mass of trisodium 2-(hydroxyphosphinato)succinate and pentasodium 1-(hydroxyphosphinato)butane-1,2,3,4-tetracarboxylate	1 - < 5 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg		
37971-36-1	253-733-5	2-phosphonobutane-1,2,4-tricarboxylic acid (PBTC) (also sodium salt)	1 - < 5 %
	inhalation: LC50 = > 1500 mg/l (vapours); dermal: LD50 = > 3300 mg/kg; oral: LD50 = > 2000 mg/kg		

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.

After inhalation

Move victim to fresh air. Instruct person to keep calm and warm.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person or a person with cramps.

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

Water. Foam. ABC powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Nitrogen oxides (NOx). Hydrogen chloride (HCl). Carbon monoxide

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

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

General advice

Wear personal protection equipment.

For non-emergency personnel

No information available.

For emergency responders

No information available.

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

For containment

No information available.

For cleaning up

No information available.

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

No special measures are necessary.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Do not eat, drink, smoke or sneeze at the workplace.

Further information on handling

No special handling instructions are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Conditions to avoid: frost.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
1310-58-3	Potassium hydroxide	-	2		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
1312-76-1	Potassium silicate			
Worker DNEL, long-term		dermal	systemic	1,49 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	5,61 mg/m³
95-14-7	benzotriazole			
Worker DNEL, long-term		dermal	systemic	1,08 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	19 mg/m³
Consumer DNEL, long-term		oral	systemic	0,54 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	0,54 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	6,55 mg/m³
	Reaction mass of trisodium 2-(hydroxyphosphinato)succinate and pentasodium 1-(hydroxyphosphinato)butane-1,2,3,4-tetracarboxylate			
Worker DNEL, long-term		inhalation	systemic	10,6 mg/m³
Worker DNEL, long-term		dermal	systemic	3 mg/kg bw/day

PNEC values

CAS No	Substance	
Environmental compartment		Value
1312-76-1	Potassium silicate	
Freshwater		7,5 mg/l
Marine water		1 mg/l
Micro-organisms in sewage treatment plants (STP)		348 mg/l
95-14-7	benzotriazole	
Freshwater		0,0194 mg/l
Freshwater (intermittent releases)		0,158 mg/l
Marine water		0,0194 mg/l
Freshwater sediment		0,0037 mg/l
Marine sediment		0,0037 mg/l
Micro-organisms in sewage treatment plants (STP)		39,4 mg/l
Soil		0,003 mg/kg
	Reaction mass of trisodium 2-(hydroxyphosphinato)succinate and pentasodium 1-(hydroxyphosphinato)butane-1,2,3,4-tetracarboxylate	
Freshwater		2 mg/l
Marine water		0,2 mg/l
Freshwater sediment		18,98 mg/kg
Marine sediment		1,9 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		2,6 mg/kg
37971-36-1	2-phosphonobutane-1,2,4-tricarboxylic acid (PBTC) (also sodium salt)	
Freshwater		0,0666 mg/l
Marine water		0,0666 mg/l
Freshwater sediment		2,398 mg/kg
Marine sediment		0,24 mg/kg
Micro-organisms in sewage treatment plants (STP)		50,4 mg/l
Soil		0,089 mg/kg

8.2. Exposure controls

Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly sealed safety glasses.

Hand protection

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.

Chemical-resistant protective gloves (EN 374), Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to> 30 minutes permeation time to EN 374), eg. B. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinyl chloride (0.7 mm), etc. .. Because of the large variety of types, the instructions for use of the manufacturer must be observed.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	light yellow
Odour:	characteristic
Odour threshold:	No data available

		Test method
Melting point/freezing point:	- 1 °C	DIN 51532
Boiling point or initial boiling point and boiling range:	> 100 °C	EN ISO 3405
Flammability:	No data available	
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	
Flash point:	No data available	
Auto-ignition temperature:	No data available	
Decomposition temperature:	No data available	
pH-Value (at 20 °C):	12 - 13	DIN 19261
Viscosity / kinematic:	No data available	
Water solubility: (at 25 °C)	miscible	
Solubility in other solvents		
No data available		
Dissolution rate:	No data available	
Partition coefficient n-octanol/water:	No data available	
Vapour pressure:	No data available	
Vapour pressure:	No data available	
Density (at 25 °C):	ca. 1,1 g/cm³	DIN 53479
Relative density:	No data available	

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

No information available.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Oxidizing agents. Alkali metals. Acid.

10.6. Hazardous decomposition products

No information available.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

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

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ATEmix calculated

ATE (oral) 7143 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1310-58-3	potassium hydroxide; caustic potash				
	oral	LD50 273 mg/kg	Rat	RTECS	
95-14-7	benzotriazole				
	oral	LD50 500 mg/kg	Rat		
	dermal	LD50 > 2000 mg/kg	Rabbit		
	Reaction mass of trisodium 2-(hydroxyphosphinato)succinate and pentasodium 1-(hydroxyphosphinato)butane-1,2,3,4-tetracarboxylate				
	oral	LD50 > 5000 mg/kg	Rat		OECD 401
	dermal	LD50 > 2000 mg/kg	Rat		OECD 402
37971-36-1	2-phosphonobutane-1,2,4-tricarboxylic acid (PBTC) (also sodium salt)				
	oral	LD50 > 2000 mg/kg	Rat		
	dermal	LD50 > 3300 mg/kg	Rat		
	inhalation (4 h) vapour	LC50 > 1500 mg/l	Rat		

Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

Sensitising effects

May cause an allergic skin reaction. (Reaction mass of trisodium 2-(hydroxyphosphinato)succinate and pentasodium 1-(hydroxyphosphinato)butane-1,2,3,4-tetracarboxylate)

Carcinogenic/mutagenic/toxic effects for reproduction

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

No information available.

Further information

No information available.

SECTION 12: Ecological information

12.1. Toxicity

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

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] | [d]	Species	Source	Method
1310-58-3	potassium hydroxide; caustic potash						
	Acute fish toxicity	LC50	80 mg/l	96 h	Gambusia affinis	IUCLID	
95-14-7	benzotriazole						
	Acute fish toxicity	LC50	180 mg/l	96 h	Danio rerio		
	Acute algae toxicity	ErC50	75 mg/l	72 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50	15,8 mg/l	48 h	Daphnia galeata		
	Fish toxicity	NOEC	0,97 mg/l	21 d			
	Reaction mass of trisodium 2-(hydroxyphosphinato)succinate and pentasodium 1-(hydroxyphosphinato)butane-1,2,3,4-tetracarboxylate						
	Algae toxicity	NOEC	100 mg/l		Daphnia magne		OECD 211
37971-36-1	2-phosphonobutane-1,2,4-tricarboxylic acid (PBTC) (also sodium salt)						
	Acute fish toxicity	LC50	> 1042 mg/l	96 h	Danio rerio	By analogy.	
	Acute algae toxicity	ErC50	> 1081 mg/l	72 h	Desmodesmus subspicatus	By analogy.	
	Acute crustacea toxicity	EC50	> 1071 mg/l	48 h	Daphnia magna	By analogy.	
	Fish toxicity	NOEC	> 1042 mg/l	14 d	Danio rerio		
	Crustacea toxicity	NOEC	104 mg/l	21 d	Daphnia magna		

12.2. Persistence and degradability

Technically correct releases of minimal concentrations to adapted biological sewage treatment facility, will not disturb the biodegradability of activated sludge.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
95-14-7	benzotriazole			
	DOC reduction	0,8 %	30	
	Biodegradable.			
	Reaction mass of trisodium 2-(hydroxyphosphinato)succinate and pentasodium 1-(hydroxyphosphinato)butane-1,2,3,4-tetracarboxylate			
		< 9 %	28	
	Not readily biodegradable (according to OECD criteria)			
37971-36-1	2-phosphonobutane-1,2,4-tricarboxylic acid (PBTC) (also sodium salt)			
	OECD 301 E	0 %	28	
	Not readily biodegradable (according to OECD criteria)			

12.3. Bioaccumulative potential

Does not accumulate in organisms.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
95-14-7	benzotriazole	1,34
	Reaction mass of trisodium 2-(hydroxyphosphinato)succinate and pentasodium 1-(hydroxyphosphinato)butane-1,2,3,4-tetracarboxylate	- 2,98
37971-36-1	2-phosphonobutane-1,2,4-tricarboxylic acid (PBTC) (also sodium salt)	- 1,36

BCF

CAS No	Chemical name	BCF	Species	Source
95-14-7	benzotriazole	4,147		
	Reaction mass of trisodium 2-(hydroxyphosphinato)succinate and pentasodium 1-(hydroxyphosphinato)butane-1,2,3,4-tetracarboxylate	41		

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

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

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.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains.
Dispose of contents/container to an appropriate recycling or disposal facility.
Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.
Send to a hazardous waste incinerator facility under observation of official regulations.
DE: Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)".

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself. Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	UN 1719
14.2. UN proper shipping name:	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide; caustic potash; Reaction mass of trisodium 2-(hydroxyphosphinato)succinate and pentasodium 1-(hydroxyphosphinato)butane-1,2,3,4-tetracarboxylate)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
Classification code:	C5
Special Provisions:	274
Limited quantity:	5 L
Excepted quantity:	E1

Transport category:	3
Hazard No:	80
Tunnel restriction code:	E

Inland waterways transport (ADN)

14.1. UN number or ID number:	UN 1719
14.2. UN proper shipping name:	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide; caustic potash; Reaction mass of trisodium 2-(hydroxyphosphinato)succinate and pentasodium 1-(hydroxyphosphinato)butane-1,2,3,4-tetracarboxylate)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
Classification code:	C5
Special Provisions:	274
Limited quantity:	5 L
Excepted quantity:	E1

Marine transport (IMDG)

14.1. UN number or ID number:	UN 1719
14.2. UN proper shipping name:	ÄTZENDER ALKALISCHER FLÜSSIGER STOFF, N.A.G. (potassium hydroxide; caustic potash; Reaction mass of trisodium 2-(hydroxyphosphinato)succinate and pentasodium 1-(hydroxyphosphinato)butane-1,2,3,4-tetracarboxylate)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
Special Provisions:	223, 274
Limited quantity:	5 L
Excepted quantity:	E1
EmS:	F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	UN 1719
14.2. UN proper shipping name:	ÄTZENDER ALKALISCHER FLÜSSIGER STOFF, N.A.G. (potassium hydroxide; caustic potash; Reaction mass of trisodium 2-(hydroxyphosphinato)succinate and pentasodium 1-(hydroxyphosphinato)butane-1,2,3,4-tetracarboxylate)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
Special Provisions:	A3 A803
Limited quantity Passenger:	1 L
Passenger LQ:	Y841
Excepted quantity:	E1
IATA-packing instructions - Passenger:	852
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	856
IATA-max. quantity - Cargo:	60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

No information available.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Water hazard class (D):	1 - slightly hazardous to water
Biocide registry number:	.

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:
potassium hydroxide; caustic potash
benzotriazole
Reaction mass of trisodium 2-(hydroxyphosphinato)succinate and pentasodium 1-(hydroxyphosphinato)butane-1,2,3,4-tetracarboxylate
2-phosphonobutane-1,2,4-tricarboxylic acid (PBTC) (also sodium salt)

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1.

Abbreviations and acronyms

CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Regulations concerning the international carriage of dangerous goods by rail
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)
IMDG: International Maritime Code for Dangerous Goods
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
SVHC: Substance of Very High Concern
Met. Corr: Corrosive to metals
Acute Tox: Acute toxicity
Skin Corr: Skin corrosion
Skin Irrit: Skin irritation
Eye Dam: Eye damage
Eye Irrit: Eye irritation
Skin Sens: Skin sensitisation
Aquatic Chronic: Chronic aquatic hazard

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data
Skin Corr. 1A; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method

Relevant H and EUH statements (number and full text)

H290	May be corrosive to metals.
H302	Harmful if swallowed.
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.
H411	Toxic to aquatic life with long lasting effects.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

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.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)