

SAFETY DATA SHEET

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

Revision date: 17 May 2021

Print date: 22 Oct 2021

Version: 7

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Corfit Closed Std

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

1.1. Product identifier

Trade name/designation:

Corfit Closed Std

UFI:

9THS-R17K-J00H-Y47U

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

Use of the substance/mixture:

Corrosion inhibitor

Relevant identified uses:

Life cycle stage [LCS]

IS: Use at industrial sites

PW: Widespread use by professional workers

Product Categories [PC]

PC 37: Water treatment chemicals

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Sanosil

Eichtalstrasse 49

8634 Hombrechtikon Switzerland

Telephone: +41 55 254 00 54

E-mail: service@sanosil.com

Website: www.sanosil.com

1.4. Emergency telephone number

Switzerland: 145 for calls from Switzerland or
+41 (0)44 251 51 51 Swiss toxicological Information Center

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 Corr. 1B</i>)	H314: Causes severe skin burns and eye damage.	Calculation method.
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	Calculation method.

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2.2. Label elements

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

Hazard pictograms:



GHS05
Corrosion

Signal word: Danger

Hazard components for labelling:

sodium hydroxide; Hydroxyphosphono-acetic acid; methyl-1H-benzotriazole

hazard statements for health hazards

H314	Causes severe skin burns and eye damage.
------	--

Supplemental hazard information

EUH208	Contains Hydroxyphosphono-acetic acid. May produce an allergic reaction.
--------	--

Precautionary statements Prevention

P280	Wear protective gloves/protective clothing/eye protection/face protection.
------	--

Precautionary statements Response

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.
--------------------	--

P363	Wash contaminated clothing before reuse.
------	--

Precautionary statements Storage

P405	Store locked up.
------	------------------

* 2.3. Other hazards

Adverse human health effects and symptoms:

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

Adverse environmental effects:

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

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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.: 1310-73-2 EC No.: 215-185-5 REACH No.: 01-2119457892-27-0000	sodium hydroxide Skin Corr. 1A (H314)  Danger Specific concentration limit (SCL) Skin Corr. 1A; H314: C ≥ 5% Skin Corr. 1B; H314: 2% ≤ C < 5% Skin Irrit. 2; H315: 0.5% ≤ C < 2% Eye Dam. 1; H318: C ≥ 2% Eye Irrit. 2; H319: 0.5% ≤ C < 2%	1 - ≤ 3 weight-%
CAS No.: 29385-43-1 EC No.: 249-596-6	methyl-1H-benzotriazole Acute Tox. 4 (H302), Aquatic Chronic 2 (H411)   Warning	0 - ≤ 1 weight-%
CAS No.: 23783-26-8 EC No.: 405-710-8 REACH No.: 01-0000015522-77-0000	Hydroxyphosphono-acetic acid Acute Tox. 4 (H302), STOT RE 2 (H373**), Skin Corr. 1B (H314), Skin Sens. 1 (H317)    Danger	0 - ≤ 0.5 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:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. Get immediate medical advice/attention.

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. Protect uninjured eye.

Following ingestion:

Rinse mouth. Let 1 glass of water be drunken in little sips (dilution effect). Do NOT induce vomiting. Get immediate medical advice/attention.

Self-protection of the first aider:

Use personal protection equipment.

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

Skin corrosion/irritation
Serious eye damage/eye irritation
May cause an allergic skin reaction.

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

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Co-ordinate fire-fighting measures to the fire surroundings.

Water spray jet
alcohol resistant foam
Carbon dioxide (CO₂)
Extinguishing powder

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

Hazardous combustion products:

In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. 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

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment:

Cover drains.

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

For cleaning up:

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

Take up mechanically, placing in appropriate containers for disposal.

Water (with cleaning agent)

Other information:

Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

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

6.5. Additional information

Use appropriate container to avoid environmental contamination.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8).

Fire prevent measures:

No special measures are necessary.

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

* 7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Packaging materials:

Keep/Store only in original container.

PE (polyethylene)

Unsuitable container/equipment material:

Aluminium

Brass

Tin

Zinc

Requirements for storage rooms and vessels:

Provide for retaining containers, e.g. floor pan without outflow.

Hints on storage assembly:

Materials to avoid: Acid

Storage class (TRGS 510, Germany): 8B - Non-combustible corrosive substances

Further information on storage conditions:

Protect against: Cold

Recommended storage temperature: 15°C - 25°C

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

No data available

8.1.2. Biological limit values

No data available

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8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route ③ Exposure time
methyl-1H-benzotriazole CAS No.: 29385-43-1 EC No.: 249-596-6	0.5 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects ③ 24 h
methyl-1H-benzotriazole CAS No.: 29385-43-1 EC No.: 249-596-6	4.4 mg/kg	① DNEL worker ② Acute - dermal, systemic effects ③ 24 h
methyl-1H-benzotriazole CAS No.: 29385-43-1 EC No.: 249-596-6	0.25 mg/kg	① DNEL worker ② Long-term - dermal, local effects ③ 24 h
methyl-1H-benzotriazole CAS No.: 29385-43-1 EC No.: 249-596-6	8.8 mg/kg	① DNEL worker ② Acute - dermal, local effects ③ 24 h

Substance name	PNEC Value	① PNEC type
methyl-1H-benzotriazole CAS No.: 29385-43-1 EC No.: 249-596-6	0.008 mg/l	① PNEC aquatic, freshwater
methyl-1H-benzotriazole CAS No.: 29385-43-1 EC No.: 249-596-6	0.008 mg/l	① PNEC aquatic, marine water
methyl-1H-benzotriazole CAS No.: 29385-43-1 EC No.: 249-596-6	0.0025 mg/l	① PNEC sediment, freshwater
methyl-1H-benzotriazole CAS No.: 29385-43-1 EC No.: 249-596-6	0.0025 mg/l	① PNEC sediment, marine water
methyl-1H-benzotriazole CAS No.: 29385-43-1 EC No.: 249-596-6	0.086 mg/l	① PNEC aquatic, intermittent release

* 8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment



Eye/face protection:

goggles EN 166

Face protection umbrella

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Skin protection:

Tested protective gloves must be worn EN ISO 374

Wearing time with permanent contact

Permeation time (maximum wear duration): ≥ 480 min

Suitable material: - Thickness of the glove material

CR (polychloroprene, chloroprene rubber) - 0,5 mm

NBR (Nitrile rubber) - 0,35 mm

Butyl caoutchouc (butyl rubber) - 0,5 mm

FKM (fluoro rubber) - 0,4 mm

PVC (polyvinyl chloride) - 0,5 mm

NR (natural rubber, natural latex) - 0,5 mm

Unsuitable material:

Natural fibres (e.g. cotton)

Leather

In the case of wanting to use the gloves again, clean them before taking off and air them well.

Body protection: Protective clothing. / Apron (Acid-resistant)

Breakthrough times and swelling properties of the material must be taken into consideration.

Respiratory protection:

exceeding exposure limit values Use suitable breathing apparatus.

Other protection measures:

Take off contaminated clothing and wash it before reuse.

8.2.3. Environmental exposure controls

No data available

8.3. Additional information

MAK (CH) 2 mg/m³, E: inhalable fraction

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: golden

Odour: not determined

Safety relevant basis data

parameter		at °C	Method	Remark
pH	14	20 °C		
Melting point	-8 °C			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	100 °C			
Decomposition temperature	<i>not determined</i>			
Flash point	<i>not applicable</i>			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not applicable</i>			
Upper/lower flammability or explosive limits	<i>not applicable</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	≈ 1.1 g/cm ³	20 °C		
Relative density	<i>not determined</i>			
Bulk density	<i>not applicable</i>			

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parameter		at °C	Method	Remark
Water solubility	completely miscible			
Partition coefficient: n-octanol/ water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>	40 °C		
VOC-value	<i>not applicable</i>			

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product itself does not burn.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

* 10.3. Possibility of hazardous reactions

Explosion hazard with:

Bromine

Acid, concentrated

Reaction with:

Aluminium /-Powder

Chlorine

Fluorine

sulphuric acid

Hydrogen peroxide

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Acid,

Metal, base

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours. In case of fire: Gases/ vapours, toxic

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SECTION 11: Toxicological information

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

Substance name	Toxicological information
sodium hydroxide CAS No.: 1310-73-2 EC No.: 215-185-5	LD₅₀ oral: 2,000 mg/kg (Ratte) LD₅₀ dermal: 2,000 mg/kg (Ratte) LC₅₀ Acute inhalation toxicity (dust/mist): 5 mg/l 4 h (Rat)
methyl-1H-benzotriazole CAS No.: 29385-43-1 EC No.: 249-596-6	LD₅₀ oral: ≈720 mg/kg (Rat) OECD 401 LD₅₀ dermal: >2,000 mg/kg (Rabbit) OECD 402
Hydroxyphosphono-acetic acid CAS No.: 23783-26-8 EC No.: 405-710-8	LD₅₀ dermal: 2,754 mg/kg (Rat) LD₅₀ oral: 1,260 mg/kg standard acute method (www.echa.europa.eu)

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

Causes severe skin burns and eye damage.

Serious eye damage/irritation:

Causes serious eye damage.

Respiratory or skin sensitisation:

Contains Hydroxyphosphono-acetic acid. May produce an allergic reaction.

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.

Additional information:

No data available

* **11.2. Information on other hazards**

Endocrine disrupting properties:

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

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SECTION 12: Ecological information

12.1. Toxicity

Substance name	Toxicological information
sodium hydroxide CAS No.: 1310-73-2 EC No.: 215-185-5	LC₅₀: 133 mg/l 2 d (fish, <i>Leuciscus idus</i> (golden orfe))
methyl-1H-benzotriazole CAS No.: 29385-43-1 EC No.: 249-596-6	EC₅₀: 8.58 mg/l 2 d (crustaceans, <i>Daphnia magna</i> (Big water flea)) OECD 202 LC₅₀: 180 mg/l 3 d (fish, <i>Danio rerio</i> (zebrafish)) OECD 203 EC₅₀: 75 mg/l 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i>) OECD 201
Hydroxyphosphono-acetic acid CAS No.: 23783-26-8 EC No.: 405-710-8	LC₅₀: >820 mg/l 4 d (fish, <i>Danio rerio</i> (zebrafish)) no guidelines following (www.echa.europa.eu) EC₅₀: 50.1 mg/l 3 d (Algae/water plant, <i>Desmodesmus subspicatus</i>) no guidelines following (www.echa.europa.eu) NOEC: 820 mg/l (fish, <i>Danio rerio</i> (zebrafish)) no guidelines following (www.echa.europa.eu) NOEC: 55 mg/l 2 d (crustaceans) no guidelines following (www.echa.europa.eu) LC₅₀: 360 mg/l 4 d (fish, <i>Oncorhynchus mykiss</i> (Rainbow trout)) EC₅₀: 50.1 mg/l 3 d (Algae/water plant)

12.2. Persistence and degradability

Substance name	Biodegradation	Remark
sodium hydroxide CAS No.: 1310-73-2 EC No.: 215-185-5	not applicable	Inorganic product which is not eliminable from water through biological cleaning processes.

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

Substance name	Results of PBT and vPvB assessment
sodium hydroxide CAS No.: 1310-73-2 EC No.: 215-185-5	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
methyl-1H-benzotriazole CAS No.: 29385-43-1 EC No.: 249-596-6	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Hydroxyphosphono-acetic acid CAS No.: 23783-26-8 EC No.: 405-710-8	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

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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:

16 05 07 *	discarded inorganic chemicals consisting of or containing hazardous substances
18 02 05 *	Chemicals consisting of or containing hazardous 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:

Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Contaminated packages must be completely emptied and can be re-used following proper cleaning.

SECTION 14: Transport information

Land transport (ADR/ RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	
14.1. UN number or ID number			
UN 1824	UN 1824	UN 1824	
14.2. UN proper shipping name			
UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II, (E)	SODIUM HYDROXIDE SOLUTION	SODIUM HYDROXIDE SOLUTION	
14.3. Transport hazard class(es)			
 8	 8	 8	
14.4. Packing group			
II	II	II	
14.5. Environmental hazards			
No	No	No	

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Land transport (ADR/ RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	
14.6. Special precautions for user			
Limited quantity (LQ): 1 L Excepted Quantities (EQ): E2 Hazard identification number (Kemler No.): 80 Classification code: C5 tunnel restriction code: (E) Remark:	Limited quantity (LQ): 1 L Excepted Quantities (EQ): E2 Classification code: C5 Remark:	Special provisions: - Limited quantity (LQ): 1 L Excepted Quantities (EQ): E2 EmS-No.: F-A, S-B Remark:	

14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

SECTION 15: Regulatory information

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

15.1.1. EU legislation

No data available

15.1.2. National regulations

[DE] National regulations

Restrictions of occupation

22 JArbSchG.

Annex Chemikalien-Verbotsverordnung (ChemVerbotsV)

Do not sell or give to persons under the age of 18 years.
The product is intended for professional use.

Störfallverordnung

Remark:

This product is not classified according to StörfallVO.

Water hazard class

WGK:

1 - schwach wassergefährdend

Source:

Mischungsregel gemäß VwVwS Anhang 4, Nr. 3

Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)

DGUV Regel 112-195

Benutzung von Schutzhandschuhen, Aktualisierte Nachdruckfassung Oktober 2007

Other regulations, restrictions and prohibition regulations

TRGS 400 (Gefährdungsbeurteilung)

TRGS 500 (Protective measures)

TRGS 510 (Storage class)

TRGS 555 (Operational instruction)

TRGS 900 (Occupational exposure limit values)

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* 15.2. Chemical Safety Assessment

For the following substances of this mixture a chemical safety assessment has been carried out:
sodium hydroxide
methyl-1H-benzotriazole
Hydroxyphosphono-acetic acid

SECTION 16: Other information

* 16.1. Indication of changes

2.3.	Other hazards
3.2.	Mixtures
7.2.	Conditions for safe storage, including any incompatibilities
8.2.	Exposure controls
10.3.	Possibility of hazardous reactions
11.2.	Information on other hazards
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
15.2.	Chemical Safety Assessment
16.1.	Indication of changes
16.3.	Key literature references and sources for data
16.5.	Relevant R-, H- and EUH-phrases (Number and full text)

16.2. Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

ADN: Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

AVV: Abfallverzeichnis-Verordnung

CSB: Chemical oxygen demand (COD)

BSB: Biochemical oxygen demand

CAS: Chemical Abstracts Service (division of the American Chemical Society)

CLP: Classification, Labelling and Packaging

DE: Deutschland/Germany

DIN: Deutsche Institut für Normung e. V.

DIN EN: Deutsche Institut für Normung e. V. Europäische Norm

DNEL: derived no-effect level

EAK: Europäische Abfallartenkatalog

EU: Europe

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

IATA: International Air Transport Association

IBC: Intermediate Bulk Container

ICAO: International Civil Aviation Organisation

IMDG: International Maritime Code for Dangerous Goods

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

MAK: Maximale Arbeitsplatz-Konzentration

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

min: Minute

mm: Millimeter

PBT: Persistent, Bioaccumulative and Toxic

PENC: Predicted no effect concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

VOC: Volatile Organic Compounds (USA, EU)

vPvB: very Persistent and very Bioaccumulative (European Agreement concerning the International Carriage of Dangerous Goods by Road)

WGK: Wassergefährdungsklasse

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* 16.3. Key literature references and sources for data

[Section 4: First-Aid Measures Section 8: Exposure Controls/Personal Protection
Section 10: Stability and Reactivity Section 15: Regulatory Information (non-
mandatory)] Source: GESTIS <https://gestis.dguv.de/> Issue date: 17.05.2021

[Section 11: Toxicological Information Section 12: Ecological Information (non-mandatory)] Source: ECHA
<https://echa.europa.eu/de/> Issue date: 17.05.2021

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

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation (<i>Skin Corr. 1B</i>)	H314: Causes severe skin burns and eye damage.	Calculation method.
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	Calculation method.

* 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
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.
H373	May cause damage to organs through prolonged or repeated exposure. (...)
H411	Toxic to aquatic life with long lasting effects.

16.6. Training advice

No data available

16.7. Additional information

No data available

* Data changed compared with the previous version