Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) according to Regulation (EU) 2020/878 na 2

Version: 5.3

1.	Product identifier					
	Trade name/designation	on	na 2			
2.	Relevant identified u	ses of the substance	or mixture and uses a	dvised against		
3. Details of the supplier of the safety data sheet						
	supplier (manufacturer/importer/downstream user/distributor)					
	technotrans solutions Scherl 10	GmbH	Telephone: +4	0 2354 7060 0		
	D-58540 Meinerzhage	n	Telefax: +49 2			
	5					
	E-mail		info-solutions@	<u>echnotrans.de</u>		
ŀ.	Emergency telephon	e number		<u></u>		
	Emergency telephone		Poison Centre	Berlin +49 (0) 30 30686700		
	TION 2: Hazards ide					
•		substance or mixture				
			C) No 1272/2008 [CLP]			
			ding to regulation (EC)			
	Met. Corr. 1 / H290 Skin Corr. 1A / H314	Corrosive to Skin corrosio		May be corrosive to metals. Causes severe skin burns and eye damage.		
2.2. Label elements				••••••••••••••••••••••••••••••••••••••		
••	Label elements					
		ed and labelled accord	ing to EC directives or o	corresponding national laws.		
	The product is classified	ed and labelled accordi to Regulation (EC) No	-			
	The product is classified		-			
	The product is classified Labelling according to Hazard pictograms	to Regulation (EC) No	-			
	The product is classifiend to be classified to be classif	to Regulation (EC) No	-			
	The product is classified Labelling according to Hazard pictograms Danger	to Regulation (EC) No	-			
	The product is classified Labelling according to Hazard pictograms Danger Hazard statements	to Regulation (EC) No	<u>5. 1272/2008 [CLP]</u>			
	The product is classified Labelling according to Hazard pictograms Danger Hazard statements H314	<u>to Regulation (EC) No</u> r	urns and eye damage.			
	The product is classified Labelling according of Hazard pictograms Danger Hazard statements H314 H290 Precautionary statem	to Regulation (EC) No r Causes severe skin bu May be corrosive to m nents	urns and eye damage.	corresponding national laws.		
	The product is classified Labelling according of Hazard pictograms Danger Hazard statements H314 H290 Precautionary statem P280	to Regulation (EC) No r Causes severe skin bu May be corrosive to m nents Wear protective gloves	b. 1272/2008 [CLP] urns and eye damage. etals. s and eye/face protectio	corresponding national laws.		
	The product is classified Labelling according of Hazard pictograms Danger Hazard statements H314 H290 Precautionary statem P280 P303 + P361 + P353	to Regulation (EC) No r Causes severe skin bu May be corrosive to m nents Wear protective gloves IF ON SKIN (or hair):	b. 1272/2008 [CLP] urns and eye damage. etals. s and eye/face protection Take off immediately all	corresponding national laws.		
	The product is classified Labelling according of Hazard pictograms Danger Hazard statements H314 H290 Precautionary statem P280 P303 + P361 + P353 P305 + P351 + P338	to Regulation (EC) No r Causes severe skin bu May be corrosive to m nents Wear protective gloves IF ON SKIN (or hair): IF IN EYES: Rinse cau easy to do. Continue r	b. 1272/2008 [CLP] urns and eye damage. etals. s and eye/face protection Take off immediately all utiously with water for se insing.	corresponding national laws. on. I contaminated clothing. Rinse skin with water [or showe everal minutes. Remove contact lenses, if present and		
	The product is classified Labelling according of Hazard pictograms Danger Hazard statements H314 H290 Precautionary statem P280 P303 + P361 + P353 P305 + P351 + P338 P310	to Regulation (EC) No r Causes severe skin bu May be corrosive to m Ments Wear protective gloves IF ON SKIN (or hair): IF IN EYES: Rinse cau easy to do. Continue r Immediately call a POI	b. 1272/2008 [CLP] urns and eye damage. etals. s and eye/face protection Take off immediately all utiously with water for so	corresponding national laws. on. I contaminated clothing. Rinse skin with water [or showe everal minutes. Remove contact lenses, if present and		
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3.	The product is classified Labelling according of Hazard pictograms Danger Hazard statements H314 H290 Precautionary statements P303 + P361 + P353 P305 + P351 + P338 P310 Hazard components Supplemental hazard Other hazards No information availab TION 3: Compositio Mixtures Description Hazardous ingredien	to Regulation (EC) No r Causes severe skin bu May be corrosive to m nents Wear protective gloves IF ON SKIN (or hair): IF IN EYES: Rinse cau easy to do. Continue r Immediately call a POI for labelling sodium hydroxide I information not applicable ole. n/information on in	D. 1272/2008 [CLP] urns and eye damage. letals. s and eye/face protection Take off immediately all utiously with water for se- rinsing. ISON CENTER or doctor	on. I contaminated clothing. Rinse skin with water [or showe everal minutes. Remove contact lenses, if present and or/ physician.		

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CAS No. Index No.	Designation classification: // Remark	weight-%
215-185-5	01-2119457892-27	
1310-73-2	sodium hydroxide	25 - 50
011-002-00-6	Skin Corr. 1A H314 / Eye Dam. 1 H318 / Met. Corr. 1 H290	
	Specific concentration limit (SCL): Skin Corr. 1A H314 >= 5 / Skin Corr.	
	1B H314 >= 2 / Skin Irrit. 2 H315 >= 0,5 / Eye Irrit. 2 H319 >= 0,5	

Additional information

Full text of classification: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Take off immediately all contaminated clothing. Wash immediately with: Water Medical treatment necessary.

After eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Seek medical advice immediately.

Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Let water be drunken in little sips (dilution effect). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

Self-protection of the first aider

First aider: Pay attention to self-protection!

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media carbon dioxide, Powder, spray mist, (water), Foam

Unsuitable extinguishing media strong water jet

5.2. Special hazards arising from the substance or mixture

Inhaling hazardous decomposing products can cause serious health damage.

5.3. Advice for firefighters

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

Additional information

Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Provide adequate ventilation. Do not breathe vapours.

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6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. **Methods and material for containment and cleaning up** Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

6.4. Reference to other sections Observe protective provisions (see section

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid contact with eyes and skin. If handled uncovered, arrangements with local exhaust ventilation should be used if possible. Handle and open container with care. When using do not eat, drink or smoke. Avoid the formation of aerosol.

7.2. Conditions for safe storage, including any incompatibilities

Packaging materials:

Unsuitable container/equipment material: Metal

Requirements for storage rooms and vessels

Keep container tightly closed and in a well-ventilated place.

Hints on joint storage

Do not store together with: Acid

Further information on storage conditions

Take care of instructions on label.

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

not applicable

DNEL:

sodium hydroxide Index No. 011-002-00-6 / EC No. 215-185-5 / CAS No. 1310-73-2 DNEL long-term inhalative (local), Workers: 1 mg/m³ DNEL acute inhalative (local), Consumer: 1 mg/m³

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction.

Personal protection equipment

Respiratory protection

Use only respiratory protection equipment with CE-symbol including four digit test number.

Hand protection

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time: > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye/face protection

Wear closely fitting protective glasses in case of splashes.

Body protection

Wear suitable protective clothing, gloves and eye/face protection.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

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Environmental exposure controls

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties 9.1.

Physical state: Colour:	Liquid colourless
Odour:	odourless
Odour threshold:	not applicable
Melting point/freezing point:	not applicable
Initial boiling point and boiling range:	100 °C Source: water
Flammability:	not applicable
Lower and upper explosion limit: Lower explosion limit: Upper explosion limit:	not applicable not applicable
Flash point:	not applicable
Auto-ignition temperature:	not applicable
Decomposition temperature:	not applicable
pH at 20 °C:	14 / 45,0 weight-%
Cinematic viscosity (40°C):	13,8 mm²/s
Viscosity at 20 °C:	< 20 mPa* s
Solubility(ies):	
Water solubility at 20 °C:	999
Partition coefficient: n-octanol/water:	see section 12
Vapour pressure at 20 °C:	11 mbar
Density and/or relative density: Density at 20 °C:	1,48 g/cm³
Relative vapour density:	not applicable
particle characteristics:	not applicable
Other information	
Solid content:	45,00 weight-%
solvent content: Organic solvents: Water:	0 weight-% 0 weight-%
	-

SECTION 10: Stability and reactivity

10.1. Reactivity

9.2.

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

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Hazardous decomposition byproducts may form with exposure to high temperatures. e.g.: Hydrogen

SECTION 11: Toxicological information

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

Acute toxicity

sodium hydroxide oral, LDLo:, Rat: 500 mg/kg

Skin corrosion/irritation; Serious eye damage/eye irritation

Causes severe skin burns and eye damage.

Sodum hydroxide solution 45% Skin (4 h)

sodium hydroxide

Skin

eves

Causes severe skin burns and eye damage.

Respiratory or skin sensitisation

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

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

STOT-single exposure; 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.

Practical experience/human evidence

Overall assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Remark

There is no information available on the preparation itself .

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

SECTION 12: Ecological information

Classification according to Regulation (EC) No 1272/2008 [CLP] Do not allow to enter into surface water or drains.

12.1. Toxicity

Sodum hydroxide solution 45%

Fish toxicity, LC50, Gambusia affinis (Mosquito fish): 125 mg/L (96 h)

Acute (short-term) daphnia toxicity, EC50, Daphnia magna (Big water flea): 76 mg/L (24 h)

sodium hydroxide

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 45,4 mg/L (96 h) Daphnia toxicity, EC50, Daphnia magna (Big water flea): 40,4 mg/L (48 h) Acute (short-term) fish toxicity, LC50:, Lepomis macrochirus (Bluegill): 99 mg/L (48 h)

Long-term Ecotoxicity

Toxicological data are not available.

12.2. Persistence and degradability

Toxicological data are not available.

12.3. Bioaccumulative potential

sodium hydroxide Partition coefficient: n-octanol/water: **Bioconcentration factor (BCF)**

Toxicological data are not available.

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12.4.	Mobility in soil					
	Toxicological data are not available.					
12.5.	Results of PBT and vPvB assessment					
		t the PBT/vPvB criteria according to REACH, annex XIII.				
2.6.	Endocrine disrupting properties No information available.					
12.7.	Other adverse effects No information available.					
SEC.	FION 13: Disposal considerations					
13.1.	Waste treatment methods					
	Appropriate disposal / Product Recommendation Do not allow to enter into surface water o disposal according to directive 2008/98/EC	r drains. This material and its container must be disposed of in a safe way. Waste C, covering waste and dangerous waste.				
	Appropriate disposal / Package Recommendation Non-contaminated packages may be recycled	cled. Vessels not properly emptied are special waste.				
SEC	FION 14: Transport information					
	UN number or ID number					
4.1.		UN 1824				
4.2.	UN proper shipping name Land transport (ADR/RID): Sea transport (IMDG): Air transport (ICAO-TI / IATA-DGR):	Sodium hydroxide solution SODIUM HYDROXIDE SOLUTION Sodium hydroxide solution				
4.3.	Transport hazard class(es)	,				
		8				
4.4.	Packing group					
		11				
4.5.	Environmental hazards					
	Land transport (ADR/RID)	not applicable				
16	Marine pollutant Special precautions for user	not applicable				
4.0.		fe containers. Make sure that persons transporting the product know what to do in				
	Further information					
	Land transport (ADR/RID)					
	Tunnel restriction code	E				
	Sea transport (IMDG)					
	EmS-No.	F-A, S-B				
4.7.	Maritime transport in bulk according to					
	No transport as bulk according IBC - Code					
SEC.	TION 15: Regulatory information					
		tions/logislation apositis for the substance or mixture				
10.1.	EU legislation	Safety, health and environmental regulations/legislation specific for the substance or mixture				
	Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]					
	VOC-value (in g/L): 0					

VOC-value (in g/L): 0 National regulations

Restrictions of occupation

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		restrictions under the Maternity Protection Directive (9. o employment for juveniles according to the 'juvenile w				
	AICS keine Information DSL keine Information EHS no information (I IECSC keine Information KECI keine Information MITI keine Information NZLoC no information PICCS keine Information (I ICSI no information (I)	n (DSLK-EN.rtf) EHS-EN.rtf) tion (IECSCK-EN.rtf) on (KECIK-EN.rtf) n (MITIK-EN.rtf) n (NZLoCK-EN.rtf) tion (PICCSK-EN.rtf)				
15.2.	Chemical Safety Assessment For the following substances of this mixture a chemical safety assessment has been carried out:					
	EC No. CAS No.	Designation		REACH No.		
	215-185-5 1310-73-2	sodium hydroxide		01-2119457892-27		
SEC	TION 16: Other info	ormation				
	Full text of classifica Skin Corr. 1A / H314 Eye Dam. 1 / H318	Skin corrosion/irritation Serious eye damage/eye irritation	Causes seriou	e skin burns and eye damage. is eye damage.		
	Met. Corr. 1 / H290 Corrosive to metals May be corrosive to metals. Classification procedure Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP] Met. Corr. 1 Corrosive to metals On basis of test data.					
	Skin Corr. 1A	Skin corrosion/irritation	Calculation me	ethod.		
	Abbreviations and acronyms ADR European Agreement concerning the International Carriage of Dangerous Goods by Road DEL Occupational Exposure Limit Value BLV Biological Limit Value CAS Chemical Abstracts Service CLP Classification, Labelling and Packaging CMR Carcinogenic, Mutagenic and Reprotoxic DIN German Institute for Standardization / German industrial standard DNEL Derived No-Effect Level EAKV European Waste Catalogue Directive EC Effective Concentration EC European Community EN European Standard ATA-DGR International Air Transport Association – Dangerous Goods Regulations BC Code International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bic CAO-TI International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air					
	IMDG Code ISO LC LD MARPOL OECD PBT PNEC REACH RID UN VOC vPvB	International Maritime Code for Dangerous Goods International Organization for Standardization Lethal Concentration Lethal Dose Maritime Pollution: The International Convention for th Organisation for Economic Cooperation and Developr persistent, bioaccumulative, toxic Predicted No Effect Concentration Registration, Evaluation, Authorisation and Restriction Regulations concerning the International Carriage of D United Nations Volatile Organic Compounds very persistent and very bioaccumulative	ment n of Chemicals			

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Further information

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.