

Safety Data Sheet

acc. to OSHA HCS

Printing date 07/17/2023

Reviewed on 07/17/2023 **1** Identification **Product identifier** Trade name: MEMBRANE CLEANER AA Article number: 06520 Application of the substance / the mixture Alkaline cleaner/ detergent Details of the supplier of the safety data sheet Manufacturer / Importer / Supplier: Rochem Technical Services GmbH Stenzelring 11, 21107 Hamburg Deutschland Tel.:+49 40 319 75 55 -0 Email: info@rts-rochem.de Information department: Last edition of Material Safety Data Sheet on: www.rochem.nl Emergency telephone number: Europe, Middle East & Africa: +44 1865 407333 Americas: +1 215 207 0061 Canada: +1 800 579 7421 (Toll Free) United States: +1 866 928 0789 (Toll Free) East/South East Asia: +65 3158 1412 Australia: +61 18000 74234 (Toll Free) acces from Austalia only 2 Hazard(s) identification Classification of the substance or mixture GHS08 Health hazard Specific Target Organ Toxicity - Repeated Exposure 2 H373 May cause damage to organs through prolonged or repeated exposure. GHS05 Corrosion Skin Corrosion 1A H314 Causes severe skin burns and eye damage. Eye Damage 1 H318 Causes serious eye damage. Label elements Keep out of reach of children The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms GHS05, GHS08 Signal word Danger Hazard-determining components of labeling: tetrasodium ethylenediaminetetraacetate sodium hvdroxide Hazard statements Causes severe skin burns and eye damage. May cause damage to organs through prolonged or repeated exposure. **Precautionary statements** Do not breathe dusts or mists. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Wash contaminated clothing before reuse. Specific treatment (see on this label). If swallowed: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell. Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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Classification NFPA ratings	system:	. of page 1)
300 HMIS-ratings	Health = 3 Fire = 0 ² Reactivity = 0 (scale 0 - 4)	
HEALTH *	Health = 0 Fire = 0	
•	bes not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehyd T and vPvB assessment icable.	es.

3 Composition/information on ingredients

Mixtures

Description: Cleansing agent

Dangerous	Dangerous components:			
	sodium hydroxide	2.5-10%		
64-02-8	tetrasodium ethylenediaminetetraacetate ♦ Specific Target Organ Toxicity - Repeated Exposure 2, H373; <> Eye Damage 1, H318; ♦ Acute Toxicity - Oral 4, H302; Acute Toxicity - Inhalation 4, H332	2.5-10%		
68515-73-1	Alkyl(C8-C10)polyglucoside	2.5-10%		

4 First-aid measures

Description of first aid measures

General information:

Persons, providing assistance, should avoid exposure and danger for themselves or others.

In case of irregular breathing or respiratory arrest provide artificial respiration.

After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Take off contaminated clothing immediately and wash the skin with plenty of water (possibly showering).

If skin irritation continues, consult a doctor.

After eye contact:

If possible, remove contact lenses. Rinse opened eye for several minutes (at least 15 minutes) under running water. If symptoms persist, consult a doctor.

After ingestion:

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

DO NOT INDUCE VOMITING!

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

CO2, powder, foam or water spray. Fight larger fires with water spray or alcohol resistant foam.

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Special hazards arising from the substance or mixture No further relevant information available.

Advice for firefighters

Protective equipment: No special measures required.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Environmental precautions: Remainder dilute with plenty of water. for disposing to sewer: seek approval from Sewer System Operator Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to regulations Ensure adequate ventilation. Reference to other sections See Section 7 for information on safe handling.	
See Section 8 for information on personal protection equipment.	
See Section 13 for disposal information. Protective Action Criteria for Chemicals	
PAC-1:	
1310-73-2 sodium hydroxide	0.5 mg/m ³
64-02-8 tetrasodium ethylenediaminetetraacetate	75 mg/m ³
PAC-2:	
1310-73-2 sodium hydroxide	5 mg/m³
64-02-8 tetrasodium ethylenediaminetetraacetate	830 mg/m ³
PAC-3:	
1310-73-2 sodium hydroxide	50 mg/m³
64-02-8 tetrasodium ethylenediaminetetraacetate	5,000 mg/m ³

7 Handling and storage

Handling:

Precautions for safe handling

Store in cool, dry place in tightly closed receptacles.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about protection against explosions and fires: The product is not flammable.

Conditions for safe storage, including any incompatibilities Storage must comply with the local regulations. Storage:

Requirements to be met by storerooms and tanks: Keep in a cool, dry place, protected from direct sunlight. **Information about storage in one common storage facility:** Do not store together with acids.

Further information about storage conditions:

Protect from frost.

Keep receptacle tightly sealed.

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see section 7.

Control parameters

Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

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1310-73-2	andium hydroxida	(Contd. of pag		
	sodium hydroxide			
-	PEL Long-term value: 2 mg/m³			
	EL Ceiling limit value: 2 mg/m³ LV Ceiling limit value: 2 mg/m³			
DNELs				
	sodium hydroxide			
Inhalative	Acute - local effects	1 mg/m3 (Consumer)		
	Long-term - local effects	1 mg/m3 (Worker)		
	Long-term - systemic effects			
	trasodium ethylenediamine			
Oral		25 mg/kg bw/day (Consumer)		
Inhalative	Acute - local effects	1.2 mg/m3 (Consumer)		
		3 mg/m3 (Worker)		
	Long-term - local effects	0.6 mg/m3 (Consumer)		
		1.5 mg/m3 (Worker)		
		were valid during the creation were used as basis.		
Exposure				
	protective equipment: protective and hygienic mea	sures'		
	y from foodstuffs, beverages			
	ely remove all soiled and cont ds before breaks and at the e			
	tact with the eyes and skin.			
	•			
Breathing equipment: Not necessary if room is well-ventilated.				
Not neces	sary if room is well-ventilated			
In case of	brief exposure or low pollutio	n use respiratory filter device. In case of intensive or longer exposure use respiratory		
In case of protective	brief exposure or low pollutio device that is independent of	n use respiratory filter device. In case of intensive or longer exposure use respiratory		
In case of protective	brief exposure or low pollutio	n use respiratory filter device. In case of intensive or longer exposure use respiratory		
In case of protective	brief exposure or low pollutio device that is independent of	n use respiratory filter device. In case of intensive or longer exposure use respiratory		
In case of protective	brief exposure or low pollutio device that is independent of	n use respiratory filter device. In case of intensive or longer exposure use respiratory		
In case of protective	brief exposure or low pollutio device that is independent of n of hands:	n use respiratory filter device. In case of intensive or longer exposure use respiratory		
In case of protective Protection	brief exposure or low pollutio device that is independent of n of hands: Protective gloves	n use respiratory filter device. In case of intensive or longer exposure use respiratory		
In case of protective Protection Use protect	brief exposure or low pollutio device that is independent of n of hands: Protective gloves ctive gloves to EN ISO 374-1	n use respiratory filter device. In case of intensive or longer exposure use respiratory circulating air.		
In case of protective Protection Use protection Use protection	brief exposure or low pollutio device that is independent of n of hands: Protective gloves ctive gloves to EN ISO 374-1 chemical-protective gloves with	n use respiratory filter device. In case of intensive or longer exposure use respiratory circulating air.		
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Information on basic physical and	chemical properties	
General Information Appearance: Form: Color: Odor: Odor threshold:	Fluid Light yellow Characteristic Not determined.	
pH-value at 20 °C (68 °F):	12.5 - 13.5	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	>0 °C (>32 °F) Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits: Lower: Upper:	Not determined. Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	1.08 - 1.10 g/cm³ (9.013 - 9.18 lbs/gal) Not determined. Not determined. Not determined.	
Solubility in / Miscibility with Water:	Fully miscible.	
Partition coefficient (n-octanol/water): Not determined.		
Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
Solvent content: Oxidizing properties:	Not determined	
Other information	No further relevant information available.	

10 Stability and reactivity

Reactivity Reacts violently with acids.

Chemical stability Stable under normal conditions (with Stabilizer).

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions Reacts with light alloys to form hydrogen.

Conditions to avoid No further relevant information available.

Incompatible materials: Acids

Hazardous decomposition products: No dangerous decomposition products known.

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	Information on toxicological effects				
Acute toxicity:					
	LD/LC50 values that are relevant for classification:				
	ATE (Acute Toxicity Estimate)				
	Oral LD50 >19,719 mg/kg (Rat)				
	Inhalative LD50/2 h 37.9 mg/m3				
	1310-73-2 sodium hydroxide				
	Oral LD50 1,350 mg/kg (Rat)				
	64-02-8 tetrasodium ethylenediaminetetraacetate				
	Oral LD50 >2,000 mg/kg (Rat)				
	Inhalative LD50/2 h 1.5 mg/m3 (ATE)				
	Primary irritant effect:				
	on the skin: Caustic effect on skin and mucous membranes.				
	on the eye: Strong caustic effect. Respiratory or skin sensitization: No sensitizing effects known. Additional toxicological information:				
	The product shows the following dangers according to internally approved calculation methods for preparations:				
	Corrosive Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach				
Carcinogenic categories					
	IARC (International Agency for Research on Cancer)				
	None of the ingredients is listed.				
	NTP (National Toxicology Program)				
	None of the ingredients is listed.				
	OSHA-Ca (Occupational Safety & Health Administration)				
	None of the ingredients is listed.				

Toxicity				
Aquatic toxici	Aquatic toxicity:			
1310-73-2 sod	1310-73-2 sodium hydroxide			
LC50/96h	125 mg/l (Fish)			
EC50/24h	76 mg/l (Daphnia Magna)			
EC50 / 15min	22 mg/l (Bacteria)			
Persistence a	Persistence and degradability The contained surfactants are biodegradable			
Behavior in er	Behavior in environmental systems:			
Bioaccumulat	Bioaccumulative potential No further relevant information available.			
Mobility in so	Mobility in soil No further relevant information available.			
Additional eco	Additional ecological information:			
General notes	General notes:			
Rinse off of big	Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms			
aquatic organis	aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the			
aqueous waste	aqueous waste, emptied into drains, is only low water-dangerous.			
Water hazard o	Water hazard class 1 (Self-assessment): slightly hazardous for water			
Results of PB	Results of PBT and vPvB assessment			
PBT: Not appli	PBT: Not applicable.			
vPvB: Not app	licable.			
Other adverse	Other adverse effects No further relevant information available.			

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13 Disposal considerations

Waste treatment methods

Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Dispose of packaging according to regulations on the disposal of packagings. **Recommended cleansing agent:** Water, if necessary with cleansing agents.

Transport information	
UN-Number	
DOT, ADR/RID/ADN, IMDG, IATA	UN1824
UN proper shipping name	
DOT	Sodium hydroxide solution
ADR/RID/ADN	1824 SODIUM HYDROXIDE SOLUTION
IMDG, IATA	SODIUM HYDROXIDE SOLUTION
Transport hazard class(es)	
DOT	
S S S S S S S S S S S S S S S S S S S	
Class	8 Corrosive substances
Label	8
ADR/RID/ADN	
Class	8 (C5) Corrosive substances
Label	8
IMDG, IATA	
Class	8 Corrosive substances
Label	8
Packing group	
DOT, ADR/RID/ADN, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code):	80
EMS Number:	F-A,S-B
Segregation groups	(SGG18) Alkalis
Stowage Category	A
Segregation Code	SG35 Stow "separated from" SGG1-acids
Transport in bulk according to Annex II of MARPO	
Transport in bulk according to Annex if of MARFO	
and the IBC Code	Not applicable.



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Transport/Additional information:	
ADR/RID/ADN	
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.	
Sara	
Section 355 (extremely hazardous substances):	
None of the ingredient is listed.	
Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
Hazardous Air Pollutants	
None of the ingredients is listed.	
Proposition 65	
Chemicals known to cause cancer:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
Cancerogenity categories	
EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
TLV (Threshold Limit Value)	
None of the ingredients is listed.	
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
Keep out of reach of children The product is classified and labeled according to the Globally Harmonize Hazard pictograms GHS05, GHS08 Signal word Danger	d System (GHS).
Hazard-determining components of labeling: tetrasodium ethylenediaminetetraacetate sodium hydroxide	
Hazard statements	
Causes severe skin burns and eye damage. May cause damage to organs through prolonged or repeated exposure.	
Precautionary statements	
Do not breathe dusts or mists.	
Wear protective gloves/protective clothing/eye protection/face protection.	
Wash thoroughly after handling.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	(Contd. on page

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If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Wash contaminated clothing before reuse.

Specific treatment (see on this label).

If swallowed: Rinse mouth. Do NOT induce vomiting.

Get medical advice/attention if you feel unwell.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

Department issuing SDS: Environment protection department.

Contact:

Date of previous version 16-10-2020

Abbreviations and acronyms:

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADN: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

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

Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA) DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

EC50: Effective Concentration, 50 percent

IOELVS: Indicative Occupational Exposure Limit Values

mPa.s: milliPascal per second

Corrosive to Metals 1: Corrosive to metals - Category 1

Acute Toxicity - Oral 4: Acute toxicity – Category 4 Skin Corrosion 1A: Skin corrosion/irritation – Category 1A

Eye Damage 1: Serious eye damage/eye irritation - Category 1

Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) - Category 2

