

Ablösemittel für Schichtgewichtsbestimmung 12 % Na4-EDTA x 2H2O 4 % Triethanolamin 9

Revision date: 19.03.2024

% NaOH in ... Product code: 24727

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

1.1. Product identifier

Ablösemittel für Schichtgewichtsbestimmung 12 % Na4-EDTA x 2H2O 4 % Triethanolamin 9 % NaOH in ...

UFI:

HXF6-D2Y2-W000-FDKG

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

Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

Company name:	AnalytiChem GmbH	
Street: Place:	ACD Stempelstraße 6 D-47167 Duisburg	
Telephone: E-mail:	0203/5194-0 info@analytichem.de	Telefax: 0203/5194-290
Contact person: E-mail: Internet: Responsible Department:	Abteilung Produktsicherheit produktsicherheit@analytichem.de www.analytichem.de Abteilung Produktsicherheit	Telephone: 0203/5194-107/117
<u>1.4. Emergency telephone</u> number:	Exposure, or Accident Call CHEMTR	ous Goods] Incidents Spill, Leak, Fire, REC Day or Night Within USA and Canada: anada: +1 703-741-5970 (collect calls

Further Information

inapplicable, this product is a mixture REACH registration number see section 3

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

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

tetrasodium ethylenediaminetetraacetate sodium hydroxide

Signal word:

Pictograms:

Danger





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Hazard statements		
H290	May be corrosive to metals.	
H314	Causes severe skin burns and eye damage.	
Precautionary statement	ts	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P280	Wear protective gloves and eye/face 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.	

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixtures in aqueous solution

Relevant ingredients

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (GB CLP	Regulation)			
64-02-8	tetrasodium ethylenedia	10 - < 15 %			
	200-573-9	607-428-00-2	01-2119486762-27		
	Acute Tox. 4, Acute Tox	. 4, Eye Dam. 1; H332 H302 H318			
1310-73-2	sodium hydroxide	5 - < 10 %			
	215-185-5	011-002-00-6	01-2119457892-27		
	Met. Corr. 1, Skin Corr.	1A; H290 H314			

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. L	imits, M-factors and ATE	
64-02-8	200-573-9	tetrasodium ethylenediaminetetraacetate	10 - < 15 %
	inhalation: ATE 1913 mg/kg	= 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: LD50 =	
1310-73-2	215-185-5	sodium hydroxide	5 - < 10 %
	· · · · ·	l314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0,5 - < H319: >= 0,5 - < 2	

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection!



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After inhalation

Provide fresh air. Call a physician immediately.

After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse. Call a physician immediately.

After contact with eyes

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.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

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

corrosive Irritant Dyspnoea Cough Circulatory collapse Risk of serious damage to eyes.

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire may be liberated: Nitrogen oxides (NOx)

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Avoid contact with skin, eyes and clothes.

Additional information

Suppress gases/vapours/mists with water spray jet. 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

Corrosive to metals.

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment.



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Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Consult an expert Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : 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).

Collect in closed and suitable containers for disposal.

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

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

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

Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Use personal protection equipment. Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe vapour/aerosol.

Advice on protection against fire and explosion

Usual measures for fire prevention.

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 or drink.

Further information on handling

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Corrosive to metals. Unsuitable container/equipment material: Metal, Aluminium, Zinc, tin



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Hints on joint storage national regulations

Further information on storage conditions

Store in a dry place. Keep container tightly closed.

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
1310-73-2	Sodium hydroxide	-	2		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance				
DNEL type		Exposure route	Effect	Value	
64-02-8	tetrasodium ethylenediaminetetraacetate				
Worker DNEL,	long-term	inhalation	local	1,5 mg/m³	
Worker DNEL,	acute	inhalation	local	3 mg/m³	
Consumer DN	EL, long-term	inhalation	local	0,6 mg/m³	
Consumer DN	EL, acute	inhalation	local	1,2 mg/m³	
Consumer DN	EL, long-term	oral	systemic	25 mg/kg bw/day	
1310-73-2	1310-73-2 sodium hydroxide				
Worker DNEL, long-term inhalation local 1 mg/m³				1 mg/m ³	
Consumer DN	EL, long-term	inhalation	local	1 mg/m³	

PNEC values

CAS No	Substance			
Environment	Environmental compartment			
64-02-8 tetrasodium ethylenediaminetetraacetate				
Freshwater	2,2 mg/l			
Freshwater (intermittent releases)		1,2 mg/l		
Marine water	0,22 mg/l			
Micro-organi	43 mg/l			
Soil	Soil			

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Do not breathe vapour/aerosol.

Individual protection measures, such as personal protective equipment



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Eye/face protection

Suitable eye protection: goggles.

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.

Suitable examples are gloves of KCL GmbH, D-36124 Eichenzell, e-mail: vertrieb@kcl.de with the following specification (test according to EN 374):

 By long-term hand contact

 Trade name/designation:
 KCL 720 Camapren®

 Recommended material:
 CR (polychloroprene, chloroprene rubber) 0,65 mm

 Wearing time with permanent contact:
 > 480 min

 By short-term hand contact

 Trade name/designation:
 KCL 720 Camapren®

 Recommended material:
 CR (polychloroprene, chloroprene rubber) 0,65 mm

 Wearing time with occasional contact (splashes):
 > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Wear suitable protective clothing.

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Colour: Odour: Odour threshold:	Liquid colourless characteristic No data available	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and		No data available
boiling range:		
Flammability:		not applicable
		not applicable
Lower explosion limits:		not applicable
Upper explosion limits:		not applicable
Flash point:		Х
Auto-ignition temperature:		not applicable
Decomposition temperature:		No data available
Boiling point or initial boiling point and boiling range: Flammability: Lower explosion limits: Upper explosion limits: Flash point: Auto-ignition temperature:		No data available not applicable not applicable not applicable not applicable X not applicable



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pH-Value:	alkaline				
Viscosity / kinematic:	No data available				
Water solubility:	completely miscible				
Solubility in other solvents					
No data available					
Partition coefficient n-octanol/water:	No data available				
Vapour pressure:	No data available				
Vapour pressure:	No data available				
Density (at 20 °C):	1,165 g/cm ³				
Bulk density:	No data available				
Relative vapour density:	No data available				
9.2. Other information					
Information with regard to physical hazard classe	s				
Explosive properties					
not applicable					
Sustaining combustion:	No data available				
Self-ignition temperature Solid:	not applicable				
Gas:	not applicable				
Oxidizing properties					
Not oxidising.					
Other safety characteristics					
Evaporation rate:	No data available				
Solvent separation test:	No data available				
Solvent content:	No data available				
Solid content:	No data available				
Sublimation point:	No data available				
Softening point:	No data available				
Pour point:	No data available				
No data available:					
Viscosity / dynamic:	No data available				
Flow time:	No data available				
Further Information					
Corrosive to metals.					
SECTION 10: Stability and reactivity					

10.1. Reactivity

Corrosive to metals.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

metals, Light metal (Formation of: Hydrogen) Combustible substance, Phenols Acid, Nitriles, Alkaline earth metal (Metal powder)

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Aluminium, Brass

metals (including their alloys), Zinc



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Tin, Light metal Glass, plastics Material, containing silicate

10.6. Hazardous decomposition products

In case of fire may be liberated: Nitrogen oxides (NOx)

Further information

No data available

SECTION 11: Toxicological information

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

Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

Based on available data, the classification criteria are not met. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects). Mucous membrane irritation in the mouth, throat, esophagus and gastrointestinal tract.

ATEmix calculated

ATE (oral) > 2000 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	
64-02-8	tetrasodium ethylenediaminetetraacetate						
	oral	LD50 mg/kg	1913	Rat	Study report (1983)	BASF-TEST: In principle, the methods des	
	inhalation vapour	ATE	11 mg/l				
	inhalation dust/mist	ATE	1,5 mg/l				

Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

Risk of serious damage to eyes.

Sensitising effects

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

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. There are no data available on the mixture itself.

Specific effects in experiment on an animal

There are no data available on the mixture itself.

Additional information on tests

There are no data available on the mixture itself.



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Practical experience

There are no data available on the mixture itself.

11.2. Information on other hazards

Other information

There are no data available on the mixture itself.

Further information

corrosive Irritant Dyspnoea Cough Circulatory collapse

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.

CAS No	Chemical name								
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method		
64-02-8	tetrasodium ethylenediaminetetraacetate								
	Acute fish toxicity	LC50	41 mg/l	96 h	Lepomis macrochirus	Bull. Environm. Contam. Toxicol. 24: 543	The static water acute toxicity tests fo		
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Pseudokirchneriella subcapitata	Study report (2001)	OECD Guideline 201		
	Acute crustacea toxicity	EC50	140 mg/l	48 h	Daphnia magna	Study report (1989)	other: DIN 38412, part 11		
	Fish toxicity	NOEC mg/l	>= 25,7	35 d	Danio rerio	Study report (2001)	OECD Guideline 210		
	Crustacea toxicity	NOEC	25 mg/l	21 d	Daphnia magna	Study report (1998)	other: EEC Guideline XI/681/86, Draft 4:		
1310-73-2	sodium hydroxide								
	Acute crustacea toxicity	EC50 mg/l	40,4	48 h	Ceriodaphnia sp.	Ecotoxicology and Environmental Safety,4	other: acute 48-h immobilization test ac		

12.2. Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

BCF

CAS No	Chemical name	BCF	Species	Source
64-02-8	tetrasodium ethylenediaminetetraacetate	ca. 1,8	Lepomis macrochirus	Proc. 3rd. Ann. Symp

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

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

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



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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

Discharge into the environment must be avoided.

Further information

Do not allow to enter into surface water or drains. Harmful effect due to pH shift.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Do not allow to enter into surface water or drains.

Send to a physico-chemical treatment facility under observation of official regulations.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)

UN 1824
SODIUM HYDROXIDE SOLUTION
8
II
8
C5
1 L
E2
2
80
E
UN 1824
SODIUM HYDROXIDE SOLUTION
8
II
8
C5
1 L
E2
UN 1824
SODIUM HYDROXIDE SOLUTION
8
II
8
-
1 L



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Excepted quantity:	E2		
EmS:	F-A, S-B		
Air transport (ICAO-TI/IATA-DGR)			
14.1. UN number or ID number:	UN 1824		
14.2. UN proper shipping name:	SODIUM HYDROXIDE SOLUTION		
14.3. Transport hazard class(es):	8		
14.4. Packing group:	II		
Hazard label:	8		
Special Provisions:	A3 A803		
Limited quantity Passenger:	0.5 L		
Passenger LQ:	Y840		
Excepted quantity:	E2		
IATA-packing instructions - Passenger:	851		
IATA-max. quantity - Passenger:	1 L		
IATA-packing instructions - Cargo:	855		
IATA-max. quantity - Cargo:	30 L		
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	No		
 14.6. Special precautions for user Warning: strongly corrosive. 14.7. Maritime transport in bulk according to 	o IMO instruments		
not applicable			
SECTION 15: Regulatory information			
15.1. Safety, health and environmental regu	lations/legislation specific for the substance or mixture		
EU regulatory information			
Restrictions on use (REACH, annex XVII):			
Entry 3, Entry 75			
Information according to Directive	Not subject to 2012/18/EU (SEVESO III)		
2012/18/EU (SEVESO III):	· · · · /		
National regulatory information			
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'ju' work protection guideline' (94/33/EC).	venile	
Water hazard class (D):	2 - obviously hazardous to water		

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,9.



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Eye Dam: Eye damage
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods b

Abbreviations and acronyms Met. Corr: Corrosive to metals Acute Tox: Acute toxicity Skin Corr: Skin corrosion

> (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

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

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.
H318	Causes serious eye damage.
H332	Harmful if inhaled.

Further Information

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. Provide appropriate information, instructions and training to users

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