

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

## Alkali- und Chlorid-Komplexierlösung

Revision date: 10.09.2024 Product code: 32304 Page 1 of 12

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

### 1.1. Product identifier

Alkali- und Chlorid-Komplexierlösung

## 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

ACD

Street: Stempelstraße 6
Place: D-47167 Duisburg

Telephone: 0203/5194-0 Telefax: 0203/5194-290

E-mail: info@analytichem.de

Contact person: Abteilung Produktsicherheit Telephone: 0203/5194-107/117

E-mail: produktsicherheit@analytichem.de

Internet: www.analytichem.de

Responsible Department: Abteilung Produktsicherheit

**1.4. Emergency telephone** For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire,

<u>number:</u> Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada:

1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls

accepted)

#### **Further Information**

This product is a mixture. REACH Registration Number see section 3.

## **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

## Regulation (EC) No 1272/2008

Met. Corr. 1; H290 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

## **Regulation (EC) No 1272/2008**

Signal word: Warning

Pictograms:



### **Hazard statements**

H290 May be corrosive to metals.
H315 Causes skin irritation.
H319 Causes serious eye irritation.



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

## Alkali- und Chlorid-Komplexierlösung

Revision date: 10.09.2024 Product code: 32304 Page 2 of 12

H412 Harmful to aquatic life with long lasting effects.

### **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Specific treatment (see Water on this label).

P321 Specific treatment (see Water on this label).
P337+P313 If eye irritation persists: Get medical advice/attention.

P390 Absorb spillage to prevent material damage.

### 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 (Regulation	n (EC) No 1272/2008)			
1310-73-2	sodium hydroxide				
	215-185-5	011-002-00-6	01-2119457892-27		
	Met. Corr. 1, Skin Corr. 1A; H290 H314				
51580-86-0	sodium dichloroisocyanurate, dihydrate				
	220-767-7	613-030-01-7	01-2119489371-33		
	Acute Tox. 4, Eye Irrit. 2, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H302 H319 H335 H400 H410 EUH031				

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. I	Limits, M-factors and ATE		
1310-73-2	215-185-5	sodium hydroxide	1 - < 5 %	
		Skin Corr. 1A; H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0,5 - < 2 Skin Irrit. 2; H319: >= 0,5 - < 2		
51580-86-0	220-767-7	sodium dichloroisocyanurate, dihydrate	< 1 %	
	inhalation: LC50 = > 0,27 - < 1,17 mg/l (dusts or mists); dermal: LD50 = > 5000 mg/kg; oral: LD50 = 2094 mg/kg			

# **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**

No data available

### After inhalation

Provide fresh air.



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

## Alkali- und Chlorid-Komplexierlösung

Revision date: 10.09.2024 Product code: 32304 Page 3 of 12

#### After contact with skin

Take off immediately all contaminated clothing and wash it before reuse.

Wash immediately with:

Water

#### 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 allow a neutralisation agent to be drunk.

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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

Irritant — skin irritation and eye damage

### 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

Non-flammable.

### 5.3. Advice for firefighters

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

Avoid contact with skin, eyes and clothes.

## **Additional information**

Suppress gases/vapours/mists with water spray jet.

### **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.

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.

Clean contaminated articles and floor according to the environmental legislation.



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

## Alkali- und Chlorid-Komplexierlösung

Revision date: 10.09.2024 Product code: 32304 Page 4 of 12

### 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.

### 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 or drink.

### Further information on handling

Take off immediately all contaminated clothing and wash it before reuse.

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

Draw up and observe skin protection programme. Wash hands before breaks and after work.

### 7.2. Conditions for safe storage, including any incompatibilities

# Requirements for storage rooms and vessels

Keep container tightly closed.

Unsuitable container/equipment material:

Metal.

### Hints on joint storage

No special measures are necessary.

# Further information on storage conditions

Keep container tightly closed.

Store in a dry place.

#### 7.3. Specific end use(s)

Laboratory chemicals

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Alkali- und Chlorid-Komplexierlösung

Revision date: 10.09.2024 Product code: 32304 Page 5 of 12

### Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
1310-73-2	Sodium hydroxide	-	2		STEL (15 min)	

### **DNEL/DMEL values**

CAS No	Substance				
DNEL type		Exposure route	Effect	Value	
1310-73-2	sodium hydroxide				
Worker DNEL	, long-term	inhalation	local	1 mg/m³	
Consumer DN	IEL, long-term	inhalation	local	1 mg/m³	
51580-86-0	sodium dichloroisocyanurate, dihydrate				
Worker DNEL, long-term		inhalation	systemic	8,11 mg/m³	
Worker DNEL, long-term		dermal	systemic	2,3 mg/kg bw/day	
Consumer DNEL, long-term		inhalation	systemic	1,99 mg/m³	
Consumer DNEL, long-term		dermal	systemic	1,15 mg/kg bw/day	
Consumer DNEL, long-term		oral	systemic	1,15 mg/kg bw/day	

#### **PNEC values**

CAS No	Substance		
Environmenta	Environmental compartment Value		
51580-86-0	sodium dichloroisocyanurate, dihydrate		
Freshwater 0 mg/l		0 mg/l	
Freshwater (intermittent releases)		0,002 mg/l	
Marine water		1,52 mg/l	
Freshwater sediment		7,56 mg/kg	
Micro-organisms in sewage treatment plants (STP)		0,59 mg/l	
Soil		0,756 mg/kg	

## 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 gas/fumes/vapour/spray.

### Individual protection measures, such as personal protective equipment

## Eye/face protection

Wear eye protection/face protection.

### 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.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

## Alkali- und Chlorid-Komplexierlösung

Revision date: 10.09.2024 Product code: 32304 Page 6 of 12

By long-term hand contact

Trade name/designation: KCL 741 Dermatril® L
Recommended material: NBR (Nitrile rubber) 0,11 mm
Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation: KCL 741 Dermatril® L
Recommended material: NBR (Nitrile rubber) 0,11 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

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

#### **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: Liquid
Colour: colourless
Odour: odourless

Melting point/freezing point:

Boiling point or initial boiling point and

not determined
not determined

boiling range:

Flammability:

Lower explosion limits:

Upper explosion limits:

not determined

Upper explosion limits:

Not determined

Flash point:

X

Auto-ignition temperature:

Decomposition temperature:

pH-Value:

Viscosity / kinematic:

not determined

not determined

not determined

Solubility in other solvents

not determined

Partition coefficient n-octanol/water:

Vapour pressure:

vapour pressure:

not determined

not determined

not determined

not determined

pensity:

not determined

Bulk density:

not determined

Relative vapour density:

not determined

#### 9.2. Other information

Information with regard to physical hazard classes

Sustaining combustion: No data available



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Alkali- und Chlorid-Komplexierlösung

Revision date: 10.09.2024 Product code: 32304 Page 7 of 12

Self-ignition temperature

Solid: not applicable
Gas: not applicable

Oxidizing properties Not oxidising.

Other safety characteristics

Evaporation rate:

Solvent separation test:

not determined
Solvent content:

not determined
Solid content:

not determined
Solid content:

not determined
Sublimation point:

not determined
Softening point:

not determined
Pour point:

not determined
not determined

not determined:

Viscosity / dynamic: not determined
Flow time: not determined

**Further Information** 

not determined

### **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

No known hazardous reactions.

# 10.4. Conditions to avoid

none

### 10.5. Incompatible materials

Keep away from: Metal.

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

#### **Further information**

No data available

### **SECTION 11: Toxicological information**

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

### **Acute toxicity**

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

### **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



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

## Alkali- und Chlorid-Komplexierlösung

Revision date: 10.09.2024 Product code: 32304 Page 8 of 12

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
51580-86-0	sodium dichloroisocyanurate, dihydrate						
	oral	LD50 mg/kg	2094	Rat	Study report (1985)	EPA OPP 81-1	
	dermal	LD50 mg/kg	> 5000	Rat	Study report (1984)	EPA OPP 81-2	
	inhalation (4 h) dust/mist	LC50 1,17 mg/l	> 0,27 - <	Rat	Study report (1985)	OECD Guideline 403	

### Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

#### Sensitising effects

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

### Carcinogenic/mutagenic/toxic effects for reproduction

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.

# **Practical experience**

No data available

## 11.2. Information on other hazards

#### Other information

No data available

### **Further information**

No data available

## **SECTION 12: Ecological information**

### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Alkali- und Chlorid-Komplexierlösung

Revision date: 10.09.2024 Product code: 32304 Page 9 of 12

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
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
51580-86-0	sodium dichloroisocyanurate, dihydrate						
	Acute fish toxicity	LC50 mg/l	0,24	96 h	Oncorhynchus mykiss	Study report (1987)	EPA OTS 797.1400
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Skeletonema costatum	Study report (2009)	ISO 10253
	Acute crustacea toxicity	EC50 mg/l	0,196	48 h	Daphnia magna	Study report (1978)	other: Methods for acute toxicity tests
	Fish toxicity	NOEC mg/l	1000	28 d	Oncorhynchus mykiss	Study report (2007)	OECD Guideline 215
	Crustacea toxicity	NOEC	160 mg/l	21 d	Daphnia magna	Study report (2007)	OECD Guideline 211
	Acute bacteria toxicity	EC50 )	51 mg/l (		activated sludge of a predominantly domestic sewag	Study report (2002)	OECD Guideline 209

### 12.2. Persistence and degradability

The product has not been tested.

### 12.3. Bioaccumulative potential

The product has not been tested.

## Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
51580-86-0	sodium dichloroisocyanurate, dihydrate	-0,056

# 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

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

## 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 waste according to applicable legislation.

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

## Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

# **SECTION 14: Transport information**



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

## Alkali- und Chlorid-Komplexierlösung

Revision date: 10.09.2024 Product code: 32304 Page 10 of 12

Land transport (ADR/RID)

14.1. UN number or ID number: UN 1824

14.2. UN proper shipping name: SODIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8Classification code:C5Limited quantity:5 LExcepted quantity:E1Transport category:3Hazard No:80

Inland waterways transport (ADN)

Tunnel restriction code:

14.1. UN number or ID number: UN 1824

14.2. UN proper shipping name: SODIUM HYDROXIDE SOLUTION

Ε

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8Classification code:C5Limited quantity:5 LExcepted quantity:E1

Marine transport (IMDG)

14.1. UN number or ID number: UN 1824

14.2. UN proper shipping name: SODIUM HYDROXIDE, SOLUTION

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8Special Provisions:223Limited quantity:5 LExcepted quantity:E1EmS: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):814.4. Packing group:IIIHazard label:8Special Provisions:A3 A803Limited quantity Passenger:1 LPassenger LQ:Y841Excepted quantity:E1

IATA-packing instructions - Passenger:852IATA-max. quantity - Passenger:5 LIATA-packing instructions - Cargo:856IATA-max. quantity - Cargo:60 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 IMO instruments

not applicable



## **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

## Alkali- und Chlorid-Komplexierlösung

Revision date: 10.09.2024 Product code: 32304 Page 11 of 12

### **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

### **National regulatory information**

Water hazard class (D): 2 - obviously hazardous to water

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

#### Changes

This data sheet contains changes from the previous version in section(s): 9,12.

### Abbreviations and acronyms

Met. Corr: Substance or mixture corrosive to metals

Acute Tox: Acute toxicity Skin Corr: Skin corrosion Skin Irrit: Skin irritation Eye Irrit: Eye irritation

STOT SE: Specific target organ toxicity - single exposure

Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard

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

(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 Regulation (EC) No 1272/2008 [CLP]

The series of th						
Classification	Classification procedure					
Met. Corr. 1; H290	On basis of test data					
Skin Irrit. 2; H315	Calculation method					
Eye Irrit. 2; H319	Calculation method					
Aquatic Chronic 3; H412	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.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH031	Contact with acids liberates toxic gas.



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Alkali- und Chlorid-Komplexierlösung

Revision date: 10.09.2024 Product code: 32304 Page 12 of 12

#### **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.

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