

	according to Regulation (EC) N	0 1307/2000	
Hydroxyl ammonium chloride solution 100 g/l for analysis with 1,10-Phenanthroline chloride 0.5 g/l			
Revision date: 02.08.2023	Product code: 1504	2	Page 1 of 10
SECTION 1: Identification of the	substance/mixture and of the com	pany/undertaking	
<u>1.1. Product identifier</u> Hydroxyl ammonium chloride s	olution 100 g/l for analysis with 1,10-Ph	enanthroline chloride 0.5 g/l	
1.2. Relevant identified uses of the s	ubstance or mixture and uses advised	<u>l against</u>	
	nces as such or in preparations at indus ain (administration, education, entertain		
Uses advised against			
Do not use for private purposes	s (household).		
1.3. Details of the supplier of the saf	. ,		
Company name: Street:	AnalytiChem GmbH Stempelstraße 6		
Place:	D-47167 Duisburg		
Telephone: E-mail:	0203/5194-0	Telefax: 0203/5194-290	
Contact person: E-mail: Internet: Responsible Department:	info@analytichem.de 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, EC Day or Night Within USA and Canada anada: +1 703-741-5970 (collect calls	
Further Information This product is a mixture. REA	CH Registration Number see section 3.		

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008 Skin Sens. 1; H317 Carc. 2; H351

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling hydroxylammonium chloride

Signal word: Warning

Pictograms:



Hazard statements

H317 H351 May cause an allergic skin reaction. Suspected of causing cancer.



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Precautionary statements

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P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P362+P364	Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixtures in aqueous solution

Hazardous components

CAS No	Chemical name			Quantity
	EC No Index No REACH No			
	Classification (Regulation (EC) No	1272/2008)		
5470-11-1	hydroxylammonium chloride			5 - < 10 %
	226-798-2	612-123-00-2	01-2120766309-45	
		, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2 12 H302 H315 H319 H317 H373 H40		

Full text of H and EUH statements: see section 16.

Specific Con	c. Limits, M-fac	tors and ATE	
CAS No	EC No	Chemical name	Quantity
	Specific Conc. I	imits, M-factors and ATE	
5470-11-1	226-798-2	hydroxylammonium chloride	5 - < 10 %
	dermal: ATE =	1100 mg/kg; oral: ATE = 500 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

Self-protection of the first aider

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

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.



hem brand according to Regulation (EC) No 1907/2006 Hydroxyl ammonium chloride solution 100 g/l for analysis with 1,10-Phenanthroline chloride

0.5 a/l

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After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

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

Irritant Gastrointestinal complaints Vomiting Spasms Circulatory collapse Narcotic effects Respiratory complaints Allergic reactions Cyanosis (blue coloured blood)

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) Hydrochloric gas

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Avoid contact with skin, eyes and clothes.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. 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

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures 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



Hydroxyl ammonium chlor	ride solution 100 g/l for analysis with 1,10-l 0.5 g/l	Phenanthroline chloride
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Collect in closed and suitable conta Take up carefully when dry. Take u For cleaning up	e.g. by containment or oil barriers). ainers for disposal. up dust-free and set down dust-free. oor according to the environmental legislation.	
Other information Provide adequate ventilation. Do not breathe dust/fume/gas/mist Wear breathing apparatus if expos		
<u>6.4. Reference to other sections</u> Safe handling: see section 7 Personal protection equipment: see Disposal: see section 13	e section 8	
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Advice on safe handling Keep container tightly closed. Do not breathe vapour/aerosol. Use extractor hood (laboratory). Avoid contact with skin, eyes and o Read label before use.	clothes.	
Advice on protection against fire and Usual measures for fire prevention		
Advice on general occupational hygi Wash contaminated clothing prior t Avoid contact with skin, eyes and o	to re-use.	
Further information on handling Wash contaminated clothing before Wash hands before breaks and aft Draw up and observe skin protection	ter work.	
7.2. Conditions for safe storage, includi	ng any incompatibilities	
Requirements for storage rooms and Keep container tightly closed. Store in a place accessible by auth		
Further information on storage cond Store in a dry place.	litions	
7.3. Specific end use(s)		
Laboratory chemicals		
SECTION 8: Exposure controls/pers	onal protection	

8.1. Control parameters

8.2. Exposure controls

Appropriate engineering controls

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



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Individual protection measures, such as personal protective equipment

Eye/face protection

goggles

Hand protection

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

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

Respiratory protection

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

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:	Liquid colourless odourless	
Odour threshold:	No data available	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and		No data available
boiling range:		
Flammability:		No data available
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Flash point:		No data available
Auto-ignition temperature:		No data available
Decomposition temperature:		No data available
pH-Value:		acidic
Viscosity / kinematic:		No data available
Water solubility:		No data available



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Solubility in other solvents No data available Dissolution rate: Partition coefficient n-octanol/water: Dispersion stability: Vapour pressure: Vapour pressure: Density: Relative density: Bulk density: Relative vapour density: Particle characteristics: 9.2. Other information Information with regard to physical hazard classes Sustaining combustion: Self-ignition temperature Solid: Gas:	No data available No data available No data available No data available No data available 1,03 g/cm ³ No data available No data available No data available No data available No data available No data available	Page o or To
Oxidizing properties No data available		
Other safety characteristics Evaporation rate: Solvent separation test: Solvent content: Solid content: Sublimation point: Softening point: Pour point: No data available: Viscosity / dynamic: Flow time: Further Information No data available	No data available No data available	
SECTION 10: Stability and reactivity		

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Oxidising agent Alkali (lye)

10.4. Conditions to avoid No data available

ino uala avaliabi

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

In case of fire may be liberated:

SECTION 5: Firefighting measures



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Further information

No data available

SECTION 11: Toxicological information

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

Toxicocinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
5470-11-1	hydroxylammonium chlori	de			
		ATE 500 mg/kg			
		ATE 1100 mg/kg			

Irritation and corrosivity

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

Sensitising effects

May cause an allergic skin reaction. (hydroxylammonium chloride)

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer. (hydroxylammonium chloride) Germ cell mutagenicity: 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.

Information on likely routes of exposure

There are no data available on the preparation/mixture itself.

Specific effects in experiment on an animal

There are no data available on the preparation/mixture itself.

Additional information on tests

There are no data available on the preparation/mixture itself.

Practical experience

There are no data available on the preparation/mixture itself.

11.2. Information on other hazards

Endocrine disrupting properties

There are no data available on the preparation/mixture itself.

Other information

There are no data available on the preparation/mixture itself.



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Further information

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Irritant Gastrointestinal complaints Vomiting Spasms Circulatory collapse Narcotic effects Respiratory complaints Allergic reactions Cyanosis (blue coloured blood)

SECTION 12: Ecological information

12.1. Toxicity

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

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

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 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

Discharge into the environment must be avoided.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations. Do not empty into drains.

Contaminated packaging

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

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

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
Inland waterways transport (ADN)	
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.



Revision date: 02.08.2023 Product code: 15042 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. 14.4. Packing group: No dangerous good in sense of this transport regulation. Marine transport (IMDG) No dangerous good in sense of this transport regulation. 14.1. UN number or ID number: No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. 14.4. Packing group: No dangerous good in sense of this transport regulation. 14.4. Packing group: No dangerous good in sense of this transport regulation. 14.1. UN number or ID number: No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. 14.5. Special precautio	Hydroxyl ammonium chloride solution 100 g/l for analysis with 1,10-Phenanthroline chloride 0.5 g/l		
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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 Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III) (SEVESO III): National regulatory information			
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Restrictions on use (REACH, annex XVII): Entry 3, Entry 75 Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III) (SEVESO III): National regulatory information			
National regulatory information			
Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile			
work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.	e		
Water hazard class (D): 3 - highly hazardous to water			

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 11,12.

Abbreviations and acronyms

Met. Corr: Substance or mixture corrosive to metals Acute Tox: Acute toxicity Skin Irrit: Skin irritation Eye Irrit: Eye irritation Skin Sens: Skin sensitisation Carc: Carcinogenicity STOT RE: Specific target organ toxicity - repeated exposure Aquatic Acute: Acute aquatic hazard

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

Classification	Classification procedure
Skin Sens. 1; H317	Calculation method
Carc. 2; H351	Calculation method



Revision date: 02.08.2023

according to Regulation (EC) No 1907/2006

Hydroxyl ammonium chloride solution 100 g/l for analysis with 1,10-Phenanthroline chloride

Product code: 15042

0.5 g/l

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Relevant H and EUH statements (number and full text)

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.

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 information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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