

"Kjeldahl tablet (Hg and Se-free) 5.5 g ""Type CX"" contains 5 g potassium sulfate + 0.5 g copper(II Revision date: 09.02.2023 Product code: 24367 Page 1 of 11 SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier "Kjeldahl tablet (Hg and Se-free) 5.5 g ""Type CX"" contains 5 g potassium sulfate + 0.5 g copper(II 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture Laboratory chemical 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: Stempelstraße 6 Place: D-47167 Duisburg Telephone: 0203/5194-0 Telefax: 0203/5194-290 info@analytichem.de e-mail: Contact person: Abteilung Produktsicherheit Telephone: 0203/5194-107/117 e-mail: produktsicherheit@analytichem.de Internet: www.analytichem.de Abteilung Produktsicherheit Responsible Department: 1.4. Emergency telephone For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: number: 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

Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

# 2.2. Label elements

### Regulation (EC) No 1272/2008

Hazard components for labelling copper sulphate pentahydrate Danger

Signal word:





Hazard statements H318

Causes serious eye damage.



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H410

Very toxic to aquatic life with long lasting effects.

Precautionary statemer	nts
P273	Avoid release to the environment.
P280	Wear protective gloves and eye/face 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.
P310	Immediately call a POISON CENTER/doctor.

## 2.3. Other hazards

No data available

# **SECTION 3: Composition/information on ingredients**

# 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name			Quantity		
	EC No Index No REACH No					
	Classification (Regulation (EC) No 1272/2008)					
7758-99-8	copper sulphate pentahydrate			5 - < 10 %		
	231-847-6 029-023-00-4 01-2119520566-40					
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H315 H318 H400 H410					

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

Specific	Conc.	Limits,	M-factors	and ATE

CAS No	EC No Chemical name			
	Specific Conc. Limits, M-factors and ATE			
7758-99-8	231-847-6	copper sulphate pentahydrate	5 - < 10 %	
dermal: LD50 = > 2000 mg/kg; oral: ATE 481 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=1				

#### **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. Call a doctor if you feel unwell.

# After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In case of skin irritation, consult a physician.

# After contact with eves

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.



# m compony according to Regulation (EC) No 1907/2006 "Kjeldahl tablet (Hg and Se-free) 5.5 g ""Type CX"" contains 5 g potassium sulfate + 0.5 g

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# After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Call a physician immediately.

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

Irritant Vomitina

# 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-combustible solids Hazardous combustion products In case of fire may be liberated: Sulphur oxides Metal oxide smoke, toxic

#### 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

#### 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

# 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.

Take up carefully when dry. Take up dust-free and set down dust-free.



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# 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

Avoid dust formation. Do not breathe dust. 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 contaminated clothing. 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.

# Further information on storage conditions

Store in a dry place.

# 7.3. Specific end use(s)

Laboratory chemicals

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

# 8.1. Control parameters



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## **PNEC** values

CAS No	Substance	
Environmenta	al compartment	Value
7758-99-8	copper sulphate pentahydrate	
Freshwater		0,0078 mg/l
Marine water		0,0052 mg/l
Freshwater sediment		87 mg/kg
Marine sediment		676 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,23 mg/l
Soil		65 mg/kg

## 8.2. Exposure controls

#### Appropriate engineering controls

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

Provide adequate ventilation as well as local exhaustion at critical locations.

Individual protection measures, such as personal protective equipment

### 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.

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.

#### **Respiratory protection**

Respiratory protection necessary at: dust formation Filtering device with filter or ventilator filtering device of type: P2



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# 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

9.1. Information on basic physical an	d chemical properties	
Physical state:	solid	
Colour:	not determined	
Odour:	odourless	
Odour threshold:	not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point a	nd	not determined
boiling range:		
Flammability:		not determined
2		not applicable
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		not determined
Auto-ignition temperature:		not determined
Decomposition temperature:		not determined
pH-Value:		not determined
Viscosity / kinematic:		not determined
Water solubility:		easily soluble
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water		not determined
Vapour pressure:		not determined
Vapour pressure:		not determined
Density:		not determined
Bulk density:		not determined
Relative vapour density:		not determined
9.2. Other information		
Information with regard to physica	al hazard classes	
Explosive properties		
not applicable		
Sustaining combustion:		No data available
Self-ignition temperature		
Solid:		not determined
Gas:		not applicable
Oxidizing properties		
Not oxidising.		
Other safety characteristics		
Evaporation rate:		not determined
Solvent separation test:		not determined
Solvent content:		not determined
Solid content:		100%
Sublimation point:		not determined
Softening point:		not determined
Pour point:		not determined
not determined:		
Viscosity / dynamic:		not determined



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not determined

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Flow time:

#### Further Information

not determined

## **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

Metal Alkali (lye)

# 10.4. Conditions to avoid

No data available

# 10.5. Incompatible materials

No data available

#### 10.6. Hazardous decomposition products

In case of fire may be liberated:

SECTION 5: Firefighting measures

# 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.

CAS No	Chemical name	hemical name				
	Exposure route Dose Species Source Method					
7758-99-8	copper sulphate pentahydrate					
	oral	ATE 481 mg/kg				
	dermal	LD50 > 2000 mg/kg	Rat	Study report (1993)	OECD Guideline 402	

## Irritation and corrosivity

Causes serious eye damage.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

#### 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.



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•	Aspiration hazard Based on available data, the classification criteria are not met.							
-	effects in experiment on e are no data available on		re itself.					
	al information on tests e are no data available on	the preparation/mixtu	re itself.					
	experience e are no data available on	the preparation/mixtu	re itself.					
11.2. Inform	<u>ation on other hazards</u>							
	ormation							
	e are no data available on	the preparation/mixtu	re itself.					
Further info Irritar Vomi	nt							
SECTION 1	2: Ecological informat	ion						
<b>12.1. Toxicity</b> There are no data available on the preparation/mixture itself.								
CAS No Chemical name								
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method		
7758-99-8	copper sulphate pentahyd	rate						
	Acute fish toxicity	LC50 0,193 mg/l	96 ł	Pimephales promelas	Study report (1996)	measurements were conducted by standard		

7758-99-8	copper sulphate pentahydrate							
	Acute fish toxicity	LC50 mg/l	0,193	96 h	Pimephales promelas	Study report (1996)	measurements were conducted by standard	
	Acute algae toxicity	ErC50 mg/l	0,152	72 h	Pseudokirchneriella subcapitata	Publication (2005)	OECD Guideline 201	
	Acute crustacea toxicity	EC50 mg/l	0,007	48 h	Daphnia magna	Study report (1978)	- Test were conducted on Daphnia magna t	
	Fish toxicity	NOEC mg/l	0,123	12 d	Atherinops affinis	Mar. Environ. Res. 31: 17-35 (1991)	Three tests are reported, designed to de	
	Algae toxicity	NOEC mg/l	0,0102		other aquatic plant: giant kelp Macrocystis pyrife	Mar. Ecol. Prog. Ser. 68: 147 - 156 (199	Tests were conducted to determine the ef	
	Crustacea toxicity	NOEC mg/l	0,033	14 d	Penaeus mergulensis and Penaeus monodon	Bull. Environ. Contain. Toxicol. (1995)	The effects of dissolved copper on the g	

## 12.2. Persistence and degradability

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

# 12.3. Bioaccumulative potential

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

# BCF

CAS No	Chemical name	BCF	Species	Source
7758-99-8	copper sulphate pentahydrate	0,02 - 20	Crangon crangon	Symp. Biologica. Hun

# 12.4. Mobility in soil

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

# 12.5. Results of PBT and vPvB assessment



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The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. There are no data available on the preparation/mixture itself.

#### 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

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

#### **Further information**

Discharge into the environment must be avoided. 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

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)

(copper sulphate pentahydrate)14.3. Transport hazard class(es):914.4. Packing group:IIIHazard label:9Classification code:M7Special Provisions:274 335 375 601Limited quantity:E1Transport category:3Hazard No:90Tunnel restriction code:-Inland waterways transport (ADN)UN 307714.1. UN number or ID number:UN 307714.2. UN proper shipping name:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (copper sulphate pentahydrate)14.3. Transport hazard class(es):914.4. Packing group:IIIHazard label:9Classification code:%Special Provisions:274 335 375 601Limited quantity:5 kgExcepted quantity:E1		
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Excepted quantity: E1	Special Provisions:	274 335 375 601
	Limited quantity:	5 kg
Marine transport (IMDG)	Excepted quantity:	E1
	Marine transport (IMDG)	
14.1. UN number or ID number: UN 3077	<u>14.1. UN number or ID number:</u>	UN 3077



according to Regulation	(EC) N	lo 1907/2006

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14.2 Tropoport bozord alass(as)	(copper sulphate pentahydrate) 9	
<u>14.3. Transport hazard class(es):</u> 14.4. Packing group:	9 	
Hazard label:	9	
Special Provisions:	274, 335, 966, 967, 969	
Limited quantity:	5 kg	
Excepted quantity:	E1	
EmS:	F-A, S-F	
Air transport (ICAO-TI/IATA-DGR)	,	
<u>14.1. UN number or ID number:</u>	UN 3077	
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	
	(copper sulphate pentahydrate)	
<u>14.3. Transport hazard class(es):</u>	9	
14.4. Packing group:		
Hazard label:	9	
Special Provisions:	A97 A158 A179 A197	
Limited quantity Passenger:	30 kg G	
Passenger LQ:	Y956	
Excepted quantity:	E1	
IATA-packing instructions - Passenger:	956	
IATA-max. quantity - Passenger:	400 kg	
IATA-packing instructions - Cargo:	956	
IATA-max. quantity - Cargo:	400 kg	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	Yes	
Danger releasing substance:	copper sulphate pentahydrate	
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 75		
Information according to 2012/18/EU	E1 Hazardous to the Aquatic Environment	
(SEVESO III):		
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juve work protection guideline' (94/33/EC). Observe employment restriction under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.	
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): 2,6,9,13,15.

## Abbreviations and acronyms

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



# "Kjeldahl tablet (Hg and Se-free) 5.5 g ""Type CX"" contains 5 g potassium sulfate + 0.5 g

copper(ll

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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]

Classification	Classification procedure
Eye Dam. 1; H318	Calculation method
Aquatic Acute 1; H400	Calculation method
Aquatic Chronic 1: H410	Calculation method

## Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

## 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.)