

according to Regulation (EC) No 1907/2006

Ammonium copper EDTA solution 0.05 mol/l - 0.05 M solution

Revision date: 05.08.2022 Product code: 01569 Page 1 of 16

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

1.1. Product identifier

Ammonium copper EDTA solution 0.05 mol/l - 0.05 M solution

UFI: CQA4-90QV-W00G-QRTE

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: Fa. Bernd Kraft GmbH Street: Stempelstraße 6 Place: D-47167 Duisburg

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

e-mail: info@berndkraft.de

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

e-mail: produktsicherheit@berndkraft.de

Internet: www.berndkraft.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

Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335 Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

Ammonia

tetrasodium ethylenediaminetetraacetate

copper sulphate pentahydrate

Signal word: Danger

Pictograms:









according to Regulation (EC) No 1907/2006

Ammonium copper EDTA solution 0.05 mol/l - 0.05 M solution

Revision date: 05.08.2022 Product code: 01569 Page 2 of 16

Hazard statements

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P260

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

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 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 (Regulat	ion (EC) No 1272/2008)	·	
1336-21-6	Ammonia			5 - < 10 %
	215-647-6	007-001-01-2	01-2119488876-14	
	Skin Corr. 1B, Aquatic	Acute 1, Aquatic Chronic 2; H314 H40	0 H411	
12125-02-9	ammonium chloride	5 - < 10 %		
	235-186-4	017-014-00-8	01-2119487950-27	
	Acute Tox. 4, Eye Irrit.	2; H302 H319	·	
64-02-8	tetrasodium ethylenediaminetetraacetate			1 - < 5 %
	200-573-9	607-428-00-2	01-2119486762-27	
	Acute Tox. 4, Acute To	ox. 4, Eye Dam. 1; H332 H302 H318	·	
7758-99-8	copper sulphate pental	hydrate		1 - < 5 %
	231-847-6	029-023-00-4	01-2119520566-40	
	Acute Tox. 4, Skin Irrit. H400 H410	2, Eye Dam. 1, Aquatic Acute 1, Aqua	atic Chronic 1; H302 H315 H318	

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



according to Regulation (EC) No 1907/2006

Ammonium copper EDTA solution 0.05 mol/l - 0.05 M solution

Revision date: 05.08.2022 Product code: 01569 Page 3 of 16

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc.	Limits, M-factors and ATE	
1336-21-6	215-647-6	Ammonia	5 - < 10 %
	inhalation: LC5 M acute; H400:	50 = 4230 mg/l (vapours); oral: LD50 = 350 mg/kg STOT SE 3; H335: >= 5 - 100 M=10	
12125-02-9	235-186-4	ammonium chloride	5 - < 10 %
	dermal: LD50	= > 2000 mg/kg; oral: LD50 = 1410 mg/kg	
64-02-8	200-573-9	tetrasodium ethylenediaminetetraacetate	1 - < 5 %
	inhalation: ATE 1913 mg/kg	E = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: LD50 =	
7758-99-8	231-847-6	copper sulphate pentahydrate	1 - < 5 %
	dermal: LD50 M chron.; H410	= > 2000 mg/kg; oral: ATE 481 mg/kg M acute; H400: M=10	

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! Remove affected person from the danger area and lay down.

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 inaestion

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

Causes burns.

Irritant

Cough

Dyspnoea

Vomiting

Methaemoglobinaemia

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

Print date: 05.08.2022



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Ammonium copper EDTA solution 0.05 mol/l - 0.05 M solution

Revision date: 05.08.2022 Product code: 01569 Page 4 of 16

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 liquids

Hazardous combustion products

In case of fire may be liberated:

Nitrogen oxides (NOx)

5.3. Advice for firefighters

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

In case of fire and/or explosion do not breathe fumes.

Avoid contact with skin, eyes and clothes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Move undamaged containers from immediate hazard area if it can be done safely.

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

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.

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



according to Regulation (EC) No 1907/2006

Ammonium copper EDTA solution 0.05 mol/l - 0.05 M solution

Revision date: 05.08.2022 Product code: 01569 Page 5 of 16

7.1. Precautions for safe handling

Advice on safe handling

Read label before use.

When using do not eat, drink, smoke, sniff.

Handle and open container with care.

Use personal protection equipment.

Provide adequate ventilation.

Do not breathe vapour/aerosol.

Avoid contact with skin, eyes and clothes.

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

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

Further information on storage conditions

Keep container tightly closed.

Protect against: Heat

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
7664-41-7	Ammonia, anhydrous	20	14		TWA (8 h)	
		50	36		STEL (15 min)	
12125-02-9	Ammonium chloride, fume	-	10		TWA (8 h)	
		-	20		STEL (15 min)	



according to Regulation (EC) No 1907/2006

Ammonium copper EDTA solution 0.05 mol/l - 0.05 M solution

Revision date: 05.08.2022 Product code: 01569 Page 6 of 16

DNEL/DMEL values

CAS No	Substance				
DNEL type		Exposure route	Effect	Value	
1336-21-6	Ammonia	·	·		
Worker DNEL,	long-term	inhalation	systemic	47,6 mg/m³	
Worker DNEL,	acute	inhalation	systemic	47,6 mg/m³	
Worker DNEL,	long-term	inhalation	local	14 mg/m³	
Worker DNEL,	acute	inhalation	local	36 mg/m³	
Worker DNEL,	long-term	dermal	systemic	6,8 mg/kg bw/day	
Worker DNEL,	acute	dermal	systemic	6,8 mg/kg bw/day	
Consumer DN	EL, long-term	inhalation	systemic	23,8 mg/m³	
Consumer DN	EL, acute	inhalation	systemic	23,8 mg/m³	
Consumer DN	EL, long-term	inhalation	local	2,8 mg/m³	
Consumer DN	EL, acute	inhalation	local	7,2 mg/m³	
Consumer DN	EL, long-term	dermal	systemic	68 mg/kg bw/day	
Consumer DN	EL, acute	dermal	systemic	68 mg/kg bw/day	
Consumer DN	EL, long-term	oral	systemic	6,8 mg/kg bw/day	
Consumer DN	EL, acute	oral	systemic	6,8 mg/kg bw/day	
12125-02-9	ammonium chloride				
Consumer DN	EL, long-term	inhalation	systemic	9,9 mg/m³	
Consumer DN	EL, long-term	dermal	systemic	114 mg/kg bw/day	
Consumer DN	EL, long-term	oral	systemic	11,4 mg/kg bw/day	
Worker DNEL,	long-term	inhalation	systemic	33,5 mg/m³	
Worker DNEL, long-term		dermal	systemic	190 mg/kg bw/day	
64-02-8	tetrasodium ethylenediaminetetraacetate				
Consumer DNEL, long-term		inhalation	local	0,6 mg/m³	
Consumer DNEL, acute		inhalation	local	1,2 mg/m³	
Consumer DNEL, long-term		oral	systemic	25 mg/kg bw/day	
Worker DNEL,	long-term	inhalation	local	1,5 mg/m³	
Worker DNEL,	acute	inhalation	local	3 mg/m³	



according to Regulation (EC) No 1907/2006

Ammonium copper EDTA solution 0.05 mol/l - 0.05 M solution

Revision date: 05.08.2022 Product code: 01569 Page 7 of 16

PNEC values

CAS No	Substance	
Environmenta	al compartment	Value
1336-21-6	Ammonia	
Freshwater		0,001 mg/l
Freshwater (i	ntermittent releases)	0,007 mg/l
Marine water		0,001 mg/l
12125-02-9	ammonium chloride	
Freshwater		1,2 mg/l
Freshwater (i	ntermittent releases)	1,2 mg/l
Marine water		11,2 mg/l
Micro-organisms in sewage treatment plants (STP)		16,2 mg/l
Soil		0,163 mg/kg
64-02-8	tetrasodium ethylenediaminetetraacetate	
Freshwater		2,2 mg/l
Freshwater (i	ntermittent releases)	1,2 mg/l
Marine water		0,22 mg/l
Micro-organis	sms in sewage treatment plants (STP)	43 mg/l
Soil		0,72 mg/kg
7758-99-8	copper sulphate pentahydrate	
Freshwater		0,0078 mg/l
Marine water		0,0052 mg/l
Freshwater sediment 87 m		87 mg/kg
Marine sediment 67		676 mg/kg
Micro-organis	sms 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.

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

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



according to Regulation (EC) No 1907/2006

Ammonium copper EDTA solution 0.05 mol/l - 0.05 M solution

Revision date: 05.08.2022 Product code: 01569 Page 8 of 16

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. Take off immediately all contaminated clothing.

Wash hands before breaks and after work.

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: Liquid Colour: blue

Odour: like: Ammonia

Melting point/freezing point:

Boiling point or initial boiling point and

No data available

boiling range: Flammability

Solid/liquid: not applicable Gas: not applicable Lower explosion limits: not determined Upper explosion limits: not determined No data available Flash point: Auto-ignition temperature: No data available Decomposition temperature: not determined pH-Value: 10.3 Viscosity / kinematic: No data available

Solubility in other solvents

not determined

Partition coefficient n-octanol/water:

Vapour pressure:

Vapour pressure:

No data available

Vapour pressure:

No data available

Density:

0,99580 g/cm³

Bulk density:

No data available

Relative vapour density:

not determined

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

No data available

Sustaining combustion: No data available



according to Regulation (EC) No 1907/2006

Ammonium copper EDTA solution 0.05 mol/l - 0.05 M solution

Revision date: 05.08.2022 Product code: 01569 Page 9 of 16

Self-ignition temperature

Solid: not applicable
Gas: not applicable

Oxidizing properties Not oxidising.

Other safety characteristics

Evaporation rate: not determined Solvent separation test: No data available Solvent content: No data available Solid content: No data available Solid content: not determined Sublimation point: No data available Softening point: No data available Pour point: No data available

No data available:

Viscosity / dynamic:

Flow time:

No data available

No data available

Further Information
Corrosive to metals.

SECTION 10: Stability and reactivity

10.1. Reactivity

Corrosive to metals.

10.2. Chemical stability

Protect against: Heat

10.3. Possibility of hazardous reactions

Acid

10.4. Conditions to avoid

none

10.5. Incompatible materials

Corrosive to metals.

Unsuitable container/equipment material: Metal

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.



according to Regulation (EC) No 1907/2006

Ammonium copper EDTA solution 0.05 mol/l - 0.05 M solution

Revision date: 05.08.2022 Product code: 01569 Page 10 of 16

CAS No	Chemical name								
	Exposure route	Dose		Species	Source	Method			
1336-21-6	Ammonia								
	oral	LD50 mg/kg	350	Rat	Journal of Industrial Hygiene and Toxico	OECD Guideline 401			
	inhalation (1 h) vapour	LC50	4230 mg/l	Mouse	Bull. Environm. Contam. Toxicol, 1982, 2	Assessment of acute inhalation toxicity			
12125-02-9	ammonium chloride								
	oral	LD50 mg/kg	1410	Rat	Other company data (1983)	other: not mentioned			
	dermal	LD50 mg/kg	> 2000	Rat	Study report (2010)	EU Method B.3			
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						
7758-99-8	copper sulphate pentahy	drate							
	oral	ATE 481 r	ng/kg						
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1993)	OECD Guideline 402			

Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

Irritating to respiratory system.

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

May cause respiratory irritation. (Ammonia)

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.



according to Regulation (EC) No 1907/2006

Ammonium copper EDTA solution 0.05 mol/l - 0.05 M solution

Revision date: 05.08.2022 Product code: 01569 Page 11 of 16

Other information

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

Further information

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

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



according to Regulation (EC) No 1907/2006

Ammonium copper EDTA solution 0.05 mol/l - 0.05 M solution

Revision date: 05.08.2022 Product code: 01569 Page 12 of 16

CAS No	Chemical name									
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method			
336-21-6	Ammonia									
	Acute fish toxicity	LC50 3,4 mg/l	0,75 -	96 h	Pimephales promelas	Trans Amer Fish Soc; 112 (5). 1983. 705-	Assessment of acute toxicity in the fath			
	Acute crustacea toxicity	EC50	101 mg/l	48 h	Daphnia magna	Environ. Toxicol. Chem. 5: 443-447 (1986	other: ASTM E729-80			
	Fish toxicity	NOEC	1,2 mg/l	61 d	Oncorhynchus gorbuscha	Fish. Bull. 78(3): 641-648 (1980)	OECD Guideline 210			
12125-02-9	ammonium chloride									
	Acute fish toxicity	LC50	209 mg/l	96 h	Cyprinus carpio	Indian J. Environ. Health, 17, 140-146,	other: E03-05:APHA, AWWA & WPCF			
	Acute crustacea toxicity	EC50	101 mg/l	48 h	Daphnia magna	Env. Tox. Chem. 5, 443-447 (1986) (1986)	other: ASTM E729-80			
	Fish toxicity	NOEC mg/l	11,8	28 d	Pimephales promelas	Env.Tox. Chem. 5, 437-442 (1986) (1986)	other: - Americar Society for Testing an			
	Algae toxicity	NOEC mg/l	26,8	10 d	Navicula sp.	Mar. Biol. 43(4), 307-315, (1977) (1977)	no data			
	Crustacea toxicity	NOEC mg/l	14,6	21 d	Daphnia magna	Env. Tox. Chem. 5, 443-447 (1986) (1986)	other: not mentioned			
	Acute bacteria toxicity	(EC50 mg/l)	1618	0,5 h	activated sludge, domestic	Study report (1988)	OECD Guideline 209			
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		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			
7758-99-8	copper sulphate pentahyo	drate								
	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			
	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			



according to Regulation (EC) No 1907/2006

Ammonium copper EDTA solution 0.05 mol/l - 0.05 M solution

Revision date: 05.08.2022 Product code: 01569 Page 13 of 16

Algae toxicity	NOEC mg/l	0,0102		' '		Tests were conducted to determine the ef
Crustacea toxicity	NOEC	0,033	14 d	Penaeus mergulensis	Bull. Environ.	The effects of
	mg/l			and Penaeus	Contain. Toxicol.	dissolved copper
	l			monodon	(1995)	on the g

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 preparation/mixture itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
1336-21-6	Ammonia	-1,38

BCF

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

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.

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

12.7. Other adverse effects

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

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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.

Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)".

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 3082



according to Regulation (EC) No 1907/2006

Ammonium copper EDTA solution 0.05 mol/l - 0.05 M solution

Revision date: 05.08.2022 Product code: 01569 Page 14 of 16

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Ammonia, copper sulphate)

14.3. Transport hazard class(es):914.4. Packing group:IIIHazard label:9Classification code:M6

Special Provisions: 274 335 375 601

Limited quantity: 5 L
Excepted quantity: E1
Transport category: 3
Hazard No: 90
Tunnel restriction code: -

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Ammonia, copper sulphate)

14.3. Transport hazard class(es):914.4. Packing group:IIIHazard label:9Classification code:M6

Special Provisions: 274 335 375 601

Limited quantity: 5 L Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number or ID number: UN 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Ammonia, copper sulphate)

14.3. Transport hazard class(es):914.4. Packing group:IIIHazard label:9

Special Provisions: 274, 335, 969

Limited quantity: 5 L
Excepted quantity: E1
EmS: F-A. S-F

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Ammonia, copper sulphate)

14.3. Transport hazard class(es):914.4. Packing group:IIIHazard label:9

Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A97 A158 A197

30 kg G

Y964

Excepted quantity:

E1

IATA-packing instructions - Passenger:964IATA-max. quantity - Passenger:450 LIATA-packing instructions - Cargo:964IATA-max. quantity - Cargo:450 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes

Danger releasing substance: copper sulphate

14.6. Special precautions for user



according to Regulation (EC) No 1907/2006

Ammonium copper EDTA solution 0.05 mol/l - 0.05 M solution

Revision date: 05.08.2022 Product code: 01569 Page 15 of 16

No information available.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

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

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

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.

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

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			
Skin Corr. 1B; H314	Calculation method			
Eye Dam. 1; H318	Calculation method			
STOT SE 3; H335	Calculation method			
Aquatic Chronic 2; H411	Calculation method			

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	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



Print date: 05.08.2022



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Ammonium copper EDTA solution 0.05 mol/l - 0.05 M solution

Revision date: 05.08.2022 Product code: 01569 Page 16 of 16

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