

Buffer solution pH 10.7 67.5 g NH4Cl + 570 ml NH3 solution 25 %/l for complexometric titration						
Revision date: 23.11.2021	Product code: 1725	1 Pa	age 1 of 14			
SECTION 1: Identification of the	ne substance/mixture and of the com	pany/undertaking				
1.1. Product identifier						
Buffer solution pH 10.7 67.5	5 g NH4Cl + 570 ml NH3 solution 25 %/l for	complexometric titration				
UFI:	83SH-H1U9-3008-5845					
1.2. Relevant identified uses of th	e substance or mixture and uses advised	l against				
	stances as such or in preparations at indus omain (administration, education, entertainr					
Uses advised against						
Do not use for private purpo	oses (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: Contact person: e-mail: Internet: Responsible Department:	info@berndkraft.de Abteilung Produktsicherheit produktsicherheit@berndkraft.de www.berndkraft.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. R	EACH 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 Acute 1; H400 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling Ammonia Signal word: Danger





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Hazard statements	
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
Precautionary statemer	nts
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
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	Chemical name					
	EC No	Index No	REACH No				
	Classification (Regulation (EC) No 1272/2008)						
1336-21-6	Ammonia						
	215-647-6	007-001-01-2	01-2119488876-14				
	Skin Corr. 1B, Aquatic Acute 1,	Aquatic Chronic 2; H314 H400 H	411				
12125-02-9	ammonium chloride						
	235-186-4	017-014-00-8	01-2119487950-27				
	Acute Tox. 4, Eye Irrit. 2; H302 H319						

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. Limits, M-factors and ATE				
1336-21-6	215-647-6	215-647-6 Ammonia			
	inhalation: LC50 = 4230 mg/l (vapours); oral: LD50 = 350 mg/kg STOT SE 3; H335: >= 5 - 100 M acute; H400: M=10				
12125-02-9	235-186-4 ammonium chloride				
dermal: LD50 = > 2000 mg/kg; oral: LD50 = 1410 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



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General information

Self-protection of the first aider Avoid contact with skin, eyes and clothes. Take off immediately all contaminated clothing.

After inhalation

Provide fresh air. Call a physician immediately.

After contact with skin

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

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

Protect uninjured eye.

After ingestion

Rinse mouth immediately and drink plenty of water.

Do NOT induce vomiting.

Do not allow a neutralisation agent to be drunk.

Call a physician immediately.

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

- Irritant
 - Corrosion Cough Dyspnoea Gastrointestinal complaints gastric perforation Unconsciousness Vomiting Circulatory collapse Spasms Pulmonary oedema Risk of serious damage to eyes.

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

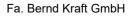
Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media no restriction

5.2. Special hazards arising from the substance or mixture

Non-combustible liquids Formation of explosive mixtures with: Air Hazardous combustion products In case of fire may be liberated: Nitrogen oxides (NOx)

5.3. Advice for firefighters





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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

7.1. Precautions for safe handling

Advice on safe handling

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

Advice on protection against fire and explosion

Usual measures for fire prevention.

Formation of explosive mixtures with: Air



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Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. 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. Avoid: aerosol or mist formation Do not breathe vapour/aerosol.

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

Keep container tightly closed. Corrosive to metals.

Unsuitable container/equipment material: Metal, Light metal

Further information on storage conditions

Keep cool. Protect from sunlight.

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)	



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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/m ³
Worker DNEL	_, long-term	inhalation	local	14 mg/m ³
Worker DNEL	_, acute	inhalation	local	36 mg/m ³
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	NEL, long-term	inhalation	systemic	23,8 mg/m ³
Consumer DN	NEL, acute	inhalation	systemic	23,8 mg/m ³
Consumer DN	NEL, long-term	inhalation	local	2,8 mg/m ³
Consumer DI	NEL, acute	inhalation	local	7,2 mg/m ³
Consumer DN	NEL, long-term	dermal	systemic	68 mg/kg bw/day
Consumer DN	NEL, acute	dermal	systemic	68 mg/kg bw/day
Consumer DN	NEL, long-term	oral	systemic	6,8 mg/kg bw/day
Consumer DN	NEL, acute	oral	systemic	6,8 mg/kg bw/day
12125-02-9	ammonium chloride			
Consumer DN	NEL, long-term	inhalation	systemic	9,9 mg/m³
Consumer DI	NEL, long-term	dermal	systemic	114 mg/kg bw/day
Consumer DI	NEL, 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

CAS No	Substance					
Environmenta	Environmental compartment Value					
1336-21-6	Ammonia					
Freshwater		0,001 mg/l				
Freshwater (intermittent releases) 0						
Marine water		0,001 mg/l				
12125-02-9	ammonium chloride					
Freshwater		1,2 mg/l				
Freshwater (intermittent 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				

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.



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Individual protection measures, such as personal protective equipment

Eye/face protection

goggles Wear eye/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):

By long-term hand contact Trade name/designation: KCL 897 Butoject® Recommended material: Butyl caoutchouc (butyl rubber) 0,3 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 730 Camatril® Velours Recommended material: NBR (Nitrile rubber) 0,4 mm Wearing time with occasional contact (splashes): > 120 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

Respiratory protection necessary at: aerosol or mist formation

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Colour:	Liquid colourless	
Odour:	stinging	
Odour threshold:	No data available	
Changes in the physical state		
Melting point/freezing point:		No data available
Boiling point or initial boiling point and		No data available
boiling range:		
Sublimation point:		No data available
Softening point:		No data available



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Pour point: No data available:	No data available					
Flash point:	No data available					
Flammability						
Solid/liquid:	No data available					
Gas:	No data available					
Explosive properties No data available						
Lower explosion limits:	No data available					
Upper explosion limits:	No data available					
Auto-ignition temperature:	No data available					
Self-ignition temperature						
Solid: Gas:	No data available No data available					
• • • • •						
Decomposition temperature:	No data available					
pH-Value:	10,7					
Viscosity / dynamic:	No data available					
Viscosity / kinematic:	No data available					
Flow time:	No data available					
Water solubility:	completely miscible					
Solubility in other solvents No data available						
Dissolution rate:	No data available					
Partition coefficient n-octanol/water:	No data available					
Dispersion stability:	No data available					
Vapour pressure:	No data available					
Vapour pressure:	No data available					
Density: Relative density:	0,98 g/cm³ No data available					
Bulk density:	No data available					
Relative vapour density:	No data available					
Particle characteristics:	No data available					
9.2. Other information						
Information with regard to physical hazard classe Sustaining combustion:	s No data available					
Oxidizing properties						
No data available						
Other safety characteristics						
Solvent separation test:	No data available					
Solvent content:	No data available					
Solid content:	No data available					
Evaporation rate:	No data available					
Further Information						
No data available						



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SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Formation of explosive mixtures with: Air

10.3. Possibility of hazardous reactions

Oxidising agent, mercury (Hg)., Oxygen, Hydrogen peroxide, Acid, Chlorine, Heavy metals, Nitric acid, Bromine, Hydrogen bromide (HBr), Hydrochloric gas, Nitrogen oxides (NOx), Hydrogen fluoride, Carbon dioxide.

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Metal, Aluminium, Lead nickel, silver, Zinc Copper

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.

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

CAS No	Chemical name									
	Exposure route	Dose		Species	Source	Method				
1336-21-6	Ammonia	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				

Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.



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Sensitising effects Based on available data, the clas	sification criteria are not met.	
Carcinogenic/mutagenic/toxic effect Based on available data, the clas	•	
STOT-single exposure May cause respiratory irritation. (Ammonia)	
STOT-repeated exposure Based on available data, the clas	sification criteria are not met.	
Aspiration hazard Based on available data, the clas	sification criteria are not met.	
Information on likely routes of expo There are no data available on th		
Specific effects in experiment on a There are no data available on th		
Additional information on tests There are no data available on th	e preparation/mixture itself.	
Practical experience There are no data available on th	e preparation/mixture itself.	
11.2. Information on other hazards Endocrine disrupting properties		
There are no data available on the	e preparation/mixture itself.	
Other information		
Irritant		
Corrosion		
Cough		
Dyspnoea		
Gastrointestinal complaints		
gastric perforation		
Unconsciousness		
Vomiting		
Circulatory collapse		
Spasms		
Pulmonary oedema		
Risk of serious damage to eyes.		
SECTION 12: Ecological information	n	
12.1. Toxicity		
There are no data available on the	e mixture itself.	



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CAS No	Chemical name								
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method		
1336-21-6	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: - American 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		

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.

Partition coefficient n-octanol/water

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

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. There are no data available on the 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 mixture itself.

Further information

Do not allow to enter into surface water or drains. Discharge into the environment must be avoided.



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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 allow to enter into surface water or 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)

Land transport (ADIVINID)				
<u>14.1. UN number or ID number:</u>	UN 2672			
14.2. UN proper shipping name:	Ammonia solution			
14.3. Transport hazard class(es):	8			
14.4. Packing group:				
Hazard label:	8			
Classification code:	C5			
Special Provisions:	543			
Limited quantity:	5 L			
Excepted quantity:	E1			
Transport category:	3			
Hazard No:	80			
Tunnel restriction code:	E			
Inland waterways transport (ADN)				
14.1. UN number or ID number:	UN 2672			
14.2. UN proper shipping name:	Ammonia solution			
14.3. Transport hazard class(es):	8			
14.4. Packing group:				
Hazard label:	8			
Classification code:	C5			
Special Provisions:	543			
Limited quantity:	5 L			
Excepted quantity:	E1			
Marine transport (IMDG)				
14.1. UN number or ID number:	UN 2672			
14.2. UN proper shipping name:	Ammonia solution			
14.3. Transport hazard class(es):	8			
14.4. Packing group:	III			
Hazard label:	8			
Marine pollutant:	Р			
Special Provisions:	-			
Limited quantity:	5 L			
Excepted quantity:	E1			
EmS:	F-A, S-B			
Air transport (ICAO-TI/IATA-DGR)				
14.1. UN number or ID number:	UN 2672			
14.2. UN proper shipping name:	Ammonia solution			



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14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Special Provisions:Limited quantity Passenger:Passenger LQ:Excepted quantity:IATA-packing instructions - Passenger:IATA-max. quantity - Passenger:IATA-packing instructions - Cargo:IATA-max. quantity - Cargo:14.5. Environmental hazards	8 III 8 A64 A803 1 L Y841 E1 852 5 L 856 60 L				
ENVIRONMENTALLY HAZARDOUS:	Yes				
Danger releasing substance:	Ammonia				
14.6. Special precautions for user No dangerous good in sense of this transport regulation. 14.7. Maritime transport in bulk according to IMO instruments No dangerous good in sense of this transport regulation. 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 Information according to 2012/18/EU (SEVESO III):	E1 Hazardous to the Aquatic Environment				
National regulatory information	.				
Employment restrictions: Water hazard class (D):	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. 2 - obviously hazardous to water				

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,9,11,12.

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 Acute 1; H400	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.



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 H319
 Causes serious eye irritation.
 H335
 May cause respiratory irritation.

 H300
 Very toxic to aquatic life.
 H411
 Toxic to aquatic life with long lasting effects.

 H412
 Harmful to aquatic life with long lasting effects.
 H412

 Further Information
 He safety requirements of the product and is based on our

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.)