

Silver sulfate-sulfuric acid 26.6 g Ag2SO4/I in H2SO4 for COD determination DIN 38409:1992, DEV H44-							
Revision date: 19.03.2025	Product code: 05378		Page 1 of 13				
SECTION 1: Identification of the	ne substance/mixture and of the compa	ny/undertaking					
1.1. Product identifier							
Silver sulfate-sulfuric acid 2	6.6 g Ag2SO4/I in H2SO4 for COD determina	ation DIN 38409:1992, DEV H44-					
UFI:	1RVF-50SY-J00H-A2E5						
1.2. Relevant identified uses of th	e substance or mixture and uses advised a	against					
	stances as such or in preparations at industr omain (administration, education, entertainme						
Uses advised against							
Do not use for private purpo	oses (household).						
1.3. Details of the supplier of the	safety data sheet						
Company name:	AnalytiChem GmbH						
Street:	ACD Stempelstraße 6						
Place:	D-47167 Duisburg						
Telephone:	0203/5194-0	Telefax:0203/5194-290					
E-mail:	info@analytichem.de						
Contact person:	Abteilung Produktsicherheit	Telephone:0203/5194-107/117					
E-mail: Internet:	produktsicherheit@analytichem.de						
Responsible Department:	www.analytichem.de Abteilung Produktsicherheit						
<u>1.4. Emergency telephone</u> number:	For Hazardous Materials [or Dangerou	C Day or Night Within USA and Canada:					
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

Met. Corr. 1; H290 Skin Corr. 1A; H314 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 sulphuric acid disilver(1+) sulphate

Signal word:

Danger



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Hazard statements

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary state	ements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
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.
4 la a a la a	

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name							
	EC No Index No REACH No							
	Classification (Regulation (EC) No	Classification (Regulation (EC) No 1272/2008)						
7664-93-9	9 sulphuric acid							
	231-639-5	016-020-00-8	01-2119458838-20					
	Met. Corr. 1, Skin Corr. 1A, Eye Da	am. 1; H290 H314 H318						
10294-26-5	disilver(1+) sulphate			1 - < 5 %				
	233-653-7							
	Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; 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	Quantity		
	Specific Conc.	Limits, M-factors and ATE			
7664-93-9	231-639-5	231-639-5 sulphuric acid			
	oral: LD50 = 2140 mg/kg Skin Corr. 1A; H314: >= 15 - 100 Skin Irrit. 2; H315: >= 5 - < 15 Eye Irrit. 2; H319: >= 5 - < 15				
10294-26-5	233-653-7 disilver(1+) sulphate		1 - < 5 %		
	oral: LD50 = > 2000 mg/kg Aquatic Acute 1; H400: M=1000 Aquatic Chronic 1; H410: M=100				

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



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4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection!

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. 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

Risk of serious damage to eyes. Causes burns. Irritant Cough Dyspnoea Vomiting Gastric perforation Nausea Abdominal pain

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 Hazardous combustion products In case of fire may be liberated: Sulphur oxides

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.



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Corrosive to metals.

For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety. Emergency procedures

Consult an expert

Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

No special fire protection measures are necessary.

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.



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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.

Unsuitable container/equipment material: Metal Protect against: Light

Hints on joint storage

national regulations

Further information on storage conditions

Corrosive to metals. storage temperature: +15°C - +25°C

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
7664-93-9	Sulphuric acid	-	0.05		TWA (8 h)	

DNEL/DMEL values

CAS No	Substance	-		
DNEL type		Exposure route	Effect	Value
7664-93-9	sulphuric acid			
Worker DNEL,	long-term	inhalation	local	0,05 mg/m³
Worker DNEL, acute		inhalation	local	0,1 mg/m³



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PNEC values

CAS No	Substance				
Environmenta	I compartment	Value			
7664-93-9	93-9 sulphuric acid				
Freshwater	Freshwater				
Marine water		0 mg/l			
Freshwater se	diment	0,002 mg/kg			
Marine sedime	0,002 mg/kg				
Micro-organis	8,8 mg/l				
10294-26-5	disilver(1+) sulphate				
Freshwater		0,00004 mg/l			
Marine water		0,00086 mg/l			
Freshwater se	diment	438,13 mg/kg			
Marine sedime	438,13 mg/kg				
Micro-organisms in sewage treatment plants (STP) 0,025 mg/l					
Soil	Soil 0,794 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 Face protection shield

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 890 Vitoject® Recommended material: FKM (fluoro rubber) 0,7 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 720 Camapren® Recommended material: CR (polychloroprene, chloroprene rubber) 0,65 mm Wearing time with occasional contact (splashes): > 60 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples





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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.

The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

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

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

	i. Information on basic physical and cher	incar properties	
	Physical state:	Liquid	
	Colour:	colourless	
	Odour:	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:		Х
	Auto-ignition temperature:		No data available
	Decomposition temperature:		No data available
	pH-Value:		acidic
	Viscosity / kinematic:		No data available
	Water solubility:		very soluble (Heat)
	Solubility in other solvents		
	No data available		
	Partition coefficient n-octanol/water:		No data available
	Vapour pressure:		No data available
	Vapour pressure:		No data available
	Density:		1,8555 g/cm³
	Bulk density:		No data available
	Relative vapour density:		No data available
).;	2. Other information		
	Information with regard to physical haza	ard classes	
	Explosive properties		
	No data available		
	Sustained combustibility:		No data available
	Self-ignition temperature		
	Solid:		No data available
	Gas:		No data available

9.



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> No data available No data available

> No data available No data available

> No data available

No data available

No data available No data available

Evaporation rate: Solvent separation test: Solvent content: Solid content: Sublimation point: Softening point: Pour point: No data available: Viscosity / dynamic: Flow time:

Further Information

Corrosive to metals.

SECTION 10: Stability and reactivity

10.1. Reactivity

Corrosive to metals.

10.2. Chemical stability

Protect against: Light

10.3. Possibility of hazardous reactions

Violent reaction with: Water, Alkali metals, Ammonia aldehydes, Alkaline earth metal, Acids Alkali (lye), Metal, Phosphorus oxides, Combustible substance Solvent, Aniline, permanganates, e.g. potassium permanganate Peroxides, Amines, Carbide peroxides, for example hydrogen peroxide, Nitriles

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Metal Cellulose

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 mixture itself.

Acute toxicity



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

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

Irritation to respiratory tract (Cough, Dyspnoea)

Mucous membrane irritation in the mouth, throat, esophagus and gastrointestinal tract.

Other dangerous properties cannot be excluded.

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			
7664-93-9	sulphuric acid								
	oral	LD50 mg/kg	2140	Rat	1969 Sep-Oct; 30(5):	The study was performed as part of a ser			
10294-26-5	disilver(1+) sulphate								
	oral	LD50 mg/kg	> 2000	Rat	Study report (1993)	OECD Guideline 401			

Irritation and corrosivity

Skin corrosion/irritation: Causes severe skin burns and eye damage. Serious eye damage/eye irritation: Causes serious eye damage. Risk of serious damage to eyes.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

Specific effects in experiment on an animal

There are no data available on the mixture itself.

Additional information on tests

There are no data available on the mixture itself.

Practical experience

There are no data available on the mixture itself.

11.2. Information on other hazards

Other information

There are no data available on the mixture itself.

Further information

Risk of serious damage to eyes. Causes burns. Irritant Cough Dyspnoea



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according to Regulation (EC) No 1907/2006

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Vomiting Gastric perforation Nausea Abdominal pain

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
7664-93-9	sulphuric acid	_					
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Desmodesmus subspicatus	Study report (2009)	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia magna	Study report (2009)	OECD Guideline 202
	Fish toxicity	NOEC mg/l	0,025	65 d	Jordanella floridae	Water Research Vol. 11, 612 - 626, 1977	Groups of sexually mature flagfish
10294-26-5	6-5 disilver(1+) sulphate						
	Acute fish toxicity	LC50 mg/l	0,0012	96 h	Pimephales promelas	Environmental Toxicology and Chemistry 2	A guideline was not specified. The test
	Acute crustacea toxicity	EC50 mg/l	0,00022	48 h	Daphnia magna	Environmental Toxicology and Chemistry 2	48-hour static renewal toxicity tests. A
	Fish toxicity	NOEC 0,00125 m	> ng/l	73 d	Oncorhynchus mykiss	Environmental Toxicology and Chemistry 2	other: ASTM 1241-98
	Algae toxicity	NOEC mg/l	0,0012	14 d	Champia parvula	in Bishop WE, Cardwell RD Heidolph BB (E	The toxicity tests lasted 11 days for th
	Crustacea toxicity	NOEC mg/l	0,001	7 d	Ceriodaphnia reticulata	Publication (1986)	other: 7 day semi-static chronic toxicit

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.

BCF

CAS No	Chemical name	BCF	Species	Source
10294-26-5	disilver(1+) sulphate	70	Cyprinus carpio	Water, Air and Soil

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.



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12.7. Other adverse effects

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Avoid release to the environment. Harmful effect due to pH shift. Forms corrosive mixtures with water even if diluted.

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 mix with other wastes. 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)

<u>14.1. UN number or ID number:</u>	UN 3264
14.2. UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphuric acid,
	disilver(1+) sulphate)
14.3. Transport hazard class(es):	8
14.4. Packing group:	I
Hazard label:	8
Classification code:	C1
Special Provisions:	274
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	80
Tunnel restriction code:	E
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 3264
14.2. UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphuric acid,
	disilver(1+) sulphate)
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8
Classification code:	C1
Special Provisions:	274
Limited quantity:	1 L
Excepted quantity:	E2
Marine transport (IMDG)	
14.1. UN number or ID number:	UN 3264
14.2. UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphuric acid,
	disilver(1+) sulphate)
14.3. Transport hazard class(es):	8
14.4. Packing group:	II



n analyti chem brand	according to Regulation (EC) No 1907/2006	
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Hazard label:	8	
Special Provisions:	274	
Limited quantity:	1 L	
Excepted quantity:	E2	
EmS:	F-A, S-B	
Air transport (ICAO-TI/IATA-DGR)		
14.1. UN number or ID number:	UN 3264	
14.2. UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphuric acid, disilver(1+) sulphate)	
<u>14.3. Transport hazard class(es):</u>	8	
14.4. Packing group:	II	
Hazard label:	8	
Special Provisions:	A3 A803	
Limited quantity Passenger:	0.5 L	
Passenger LQ:	Y840	
Excepted quantity:	E2	
IATA-packing instructions - Passenger:	851	
IATA-max. quantity - Passenger:	1 L	
IATA-packing instructions - Cargo:	855	
IATA-max. quantity - Cargo:	30 L	
4.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	Yes	
Danger releasing substance:	disilver(1+) sulphate	
4.6. Special precautions for user		
Warning: strongly corrosive.		
4.7. Maritime transport in bulk according	to IMO instruments	
not applicable		
SECTION 15: Regulatory information		
5.1. Safety, health and environmental regu	ulations/legislation specific for the substance or mixture	
EU regulatory information		
Restrictions on use (REACH, annex XVII)):	
Entry 3, Entry 75		
Information according to Directive	E1 Hazardous to the Aquatic Environment	
2012/18/EU (SEVESO III):	· · · · · · · · · · · · · · · · ·	
Marketing and use of explosives precurso	ors (Regulation (EU) 2019/1148):	
	or use of this product by the general public is restricted by Regulation	
(EU) 2019/1148. All suspicious transa the relevant national contact point.	ctions, and significant disappearances and thefts should be reported to	
National regulatory information		
	Observe restrictions to employment for juveniles according to the 'juve	nile
National regulatory information	Observe restrictions to employment for juveniles according to the 'juve work protection guideline' (94/33/EC).	nile

SECTION 16: Other information

Changes

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



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Abbreviations and acronyms

Met. Corr: Substance or mixture corrosive to metals Skin Corr: Skin corrosion Eye Dam: Eye damage Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50%

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

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data
Skin Corr. 1A; H314	Calculation method
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)

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
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 receiver of our product is singularly responsible for adhering to existing laws and regulations. Provide appropriate information, instructions and training to users

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