

Safety Data Sheet

according to UK REACH Regulation

UV-Plus Purifier

Revision date: 01.04.2025

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

1.1. Product identifier

UV-Plus Purifier

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Professional use.

The UV Plus Purifier is a gas cleaning system for exclusive use in OES SPECTRO products.

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name: SPECTRO Analytical Instruments GmbH
Street: Boschstrasse 10
Place: D-47533 Kleve
Telephone: +49 2821892-0
Internet: <https://www.spectro.com/>
Responsible Department: spectro.info@ametek.com

1.4. Emergency telephone number:

001 7035273887 (International); 001 8004249300 (USA and Canada);
CHEMTREC CCN: 619106 Ametek/Spectro

Further Information

Safety Data Sheet according to UK-REACH Regulation

The product is classified as an article. Providing the Safety Data Sheet takes place on a voluntary basis for information purposes.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Self-heat. 1; H251
STOT RE 2; H373
Aquatic Acute 1; H400
Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Quartz

Signal word: Danger

Pictograms:



Hazard statements

H251 Self-heating: may catch fire.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

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Precautionary statements

P235	Keep cool.
P273	Avoid release to the environment.
P391	Collect spillage.
P407	Maintain air gap between stacks or pallets.
P420	Store separately.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional advice on labelling

Not required because hazardous substances are incorporated in the material/article and there is no risk in case of skin contact, inhalation or ingestion as long as the material is properly handled and stored. (EC 1272/2008 I 1.3.4.1)

There is no requirement for the product to be specially labelled according to EC directives or the corresponding national laws.

2.3. Other hazards

This article doesn't contain dangerous substances or preparations intended to be released under normal or reasonably foreseeable conditions of use. Under normal conditions, the product is hermetically sealed.

The substances in the mixture (> 0.1%) do not meet the PBT/vPvB criteria according to UK REACH.

This product does not contain a substance (> 0,1%) that has endocrine disrupting properties with respect to humans as no components meets the criteria. This product does not contain a substance (> 0,1 %) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Chemical characterization**

Catalyst.

The UV Plus Purifier is a gas cleaning system for exclusive use in OES SPECTRO products. Dispose of only deactivated catalyst residues.

Relevant ingredients

CAS No	Chemical name	Index No	REACH No	Quantity
	EC No			
	Classification (GB CLP Regulation)			
-	activated Copper Oxide			< 50 %
	-			
	Self-heat. 1; H251			
1317-38-0	copper(II) oxide			< 50 %
	215-269-1	029-016-00-6	01-2119502447-44	
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410			
14808-60-7	Quartz			< 5 %
	238-878-4			
	STOT RE 1; H372			
1314-13-2	zinc oxide			< 1 %
	215-222-5	030-013-00-7		
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410			
1304-28-5	Bariumoxide			< 3 %
	Acute Tox. 4, Acute Tox. 4; H332 H302			

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

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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
1317-38-0	215-269-1	copper(II) oxide	< 50 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2500 mg/kg Aquatic Acute 1; H400: M=100 Aquatic Chronic 1; H410: M=10	
1314-13-2	215-222-5	zinc oxide	< 1 %
		inhalation: LC50 = (>1,79) mg/l (dusts or mists); dermal: LD50 = (>2000) mg/kg; oral: LD50 = > 5000 mg/kg	
1304-28-5		Bariumoxide	< 3 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: ATE = 500 mg/kg	

Further Information

Product does not contain listed SVHC substances > 0.1 % according to UK REACH.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

In the event of a damaged container. If material escapes:

After contact with skin, wash immediately with: Water. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with eyes

In the event of a damaged container. If material escapes:

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

In the event of a damaged container. If material escapes:

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). In all cases of doubt, or when symptoms persist, seek medical advice.

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

See sections 2 and 11

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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

The product itself does not burn.

In the event of a damaged container. If material escapes:

D powder. Dry sand.

Unsuitable extinguishing media

Water.

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Gas/vapours, harmful.

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5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. In case of fire: Wear self-contained breathing apparatus.

Additional information

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

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

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

General advice

Warning: May cause fire.

In case of fire, use fire extinguisher class D.

For non-emergency personnel

Wear personal protection equipment (refer to section 8).

For emergency responders

No special measures are necessary.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Eliminate leaks immediately. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into soil/subsoil. If required, notify relevant authorities according to all applicable regulations.

6.3. Methods and material for containment and cleaning up

For containment

Dispose of only deactivated catalyst residues.

Take up carefully when dry. Avoid contact with water.

Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

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

Protect containers against damage.

Under normal conditions, the product is hermetically sealed.

Advice on protection against fire and explosion

Protect containers against damage.

Under normal conditions, the product is hermetically sealed.

Usual measures for fire prevention.

Advice on general occupational hygiene

No special measures are necessary.

Further information on handling

General protection and hygiene measures: See section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

not relevant

Under normal conditions, the product is hermetically sealed.

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Hints on joint storage

not relevant

Under normal conditions, the product is hermetically sealed.

Further information on storage conditions

not relevant

Under normal conditions, the product is hermetically sealed.

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
-	Silica, respirable crystalline (respirable fraction)	-	0.1		TWA (8 h)	WEL

PNEC values

CAS No	Substance	Value
Environmental compartment		
1317-38-0	copper(II) oxide	
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

Additional advice on limit values

Under normal conditions, the product is hermetically sealed.

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.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Eye protection: not required.

Under normal conditions, the product is hermetically sealed.

Hand protection

Hand protection: not required.

Under normal conditions, the product is hermetically sealed.

Skin protection

Suitable protective clothing: Lab apron.

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Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.
Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

Environmental exposure controls

No special precautionary measures are necessary.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	solid	
Colour:	not determined	
Odour:	characteristic	
Odour threshold:	not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		not applicable
Flammability:		not determined
Lower explosion limits:		not applicable
Upper explosion limits:		not applicable
Flash point:		not applicable
Auto-ignition temperature:		not applicable
Decomposition temperature:		not relevant
pH-Value:		not applicable
Viscosity / kinematic:		not determined
Water solubility:		not applicable
Solubility in other solvents		not determined
Dissolution rate:		not relevant
Partition coefficient n-octanol/water:		not relevant
Dispersion stability:		not relevant
Vapour pressure:		not applicable
Density:		not determined
Bulk density:		not relevant
Relative vapour density:		not determined
Particle characteristics:		not relevant

9.2. Other information**Information with regard to physical hazard classes**

Explosive properties		
not applicable		
Sustained combustibility:		No data available
Self-ignition temperature		
Solid:		not determined
Gas:		not determined
Oxidizing properties		
In the event of a damaged container. If material escapes: Self-heating substances and mixtures May cause fire.		

Other safety characteristics

Evaporation rate:		not determined
Solvent separation test:		not determined
Solvent content:		0%

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Solid content:	not applicable
Sublimation point:	not relevant
Softening point:	not relevant
Pour point:	not relevant
Viscosity / dynamic:	not applicable
Flow time:	not determined

Further Information

No information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

10.5. Incompatible materialsSubstances and mixtures which, in contact with water, emit flammable gases. Combustible substance.
Oxidizing agents. Emission of air/oxygen.**10.6. Hazardous decomposition products**

Does not decompose when used for intended uses.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****Toxicokinetics, metabolism and distribution**

No data available.

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1317-38-0	copper(II) oxide				
	oral	LD50 > 2500 mg/kg	Rat	REACH Dossier	OECD Guideline 423
	dermal	LD50 > 2000 mg/kg	Rat	REACH Dossier	OECD Guideline 402
1314-13-2	zinc oxide				
	oral	LD50 > 5000 mg/kg	Mouse.	REACH dossier	
	dermal	LD50 (>2000) mg/kg	Rat.	REACH dossier	
	inhalation (4 h) dust/mist	LC50 (>1,79) mg/l	Rat.	REACH dossier	
1304-28-5	Bariumoxide				
	oral	ATE 500 mg/kg			
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			

Irritation and corrosivity

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

Serious eye damage/eye 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

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

May cause damage to organs through prolonged or repeated exposure. (Quartz)

Aspiration hazard

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

Information on likely routes of exposure

Under normal conditions, the product is hermetically sealed.

In the event of a damaged container. If material escapes: Ingestion: May be harmful. Inhalation: May be harmful. Skin contact: May cause mild irritation. Eye contact: May cause irritation. May cause fire.

Specific effects in experiment on an animal

No data available.

11.2. Information on other hazards**Endocrine disrupting properties**

This product does not contain a substance (> 0,1%) that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Other information

No data available.

SECTION 12: Ecological information**12.1. Toxicity**

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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
1317-38-0	copper(II) oxide					
	Acute fish toxicity	LC50 0.0105-9.15 mg/l	96 h	Fish	REACH Dossier	
	Acute algae toxicity	ErC50 0.016-0.897 mg/l	72 h	algae	REACH Dossier	
	Acute crustacea toxicity	EC50 0.0085-1.21 mg/l	48 h	Crustacea	REACH Dossier	
	Fish toxicity	NOEC 0.022-0.188 mg/l		Fish [7-330d]	REACH Dossier	
	Algae toxicity	NOEC 0.0102 mg/l	19 d	Macrocystis pyrife	Mar. Ecol. Prog. Ser. 68: 147 - 156 (199)	
	Crustacea toxicity	NOEC 0.004-0.181 mg/l		Crustacea [2-240d]	REACH Dossier	
1314-13-2	zinc oxide					
	Acute fish toxicity	LC50 (4,92) mg/l	96 h	Brachydanio rerio (zebra-fish)	REACH dossier	
	Crustacea toxicity	NOEC 0,058 mg/l	21 d	Daphnia magna	REACH dossier	
	Acute bacteria toxicity	EC50 >1000 mg/l ()	3 h	Activated sludge	REACH dossier	

12.2. Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

BCF

CAS No	Chemical name	BCF	Species	Source
1317-38-0	copper(II) oxide	0.02 - 20	Crangon crangon	

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %.

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.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

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13.1. Waste treatment methods**Disposal recommendations**

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Must not be disposed with household waste.

Refer to manufacturer/supplier for information on recovery/recycling.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

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

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number or ID number: UN 3190
14.2. UN proper shipping name: SELF-HEATING SOLID, INORGANIC, N.O.S. (activated Copper Oxide)
14.3. Transport hazard class(es): 4.2
14.4. Packing group: II
 Hazard label: 4.2



Classification code: S4
 Special Provisions: 274
 Limited quantity: 0
 Excepted quantity: E2
 Transport category: 2
 Hazard No: 40
 Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 3190
14.2. UN proper shipping name: SELF-HEATING SOLID, INORGANIC, N.O.S. (activated Copper Oxide)
14.3. Transport hazard class(es): 4.2
14.4. Packing group: II
 Hazard label: 4.2



Classification code: S4
 Special Provisions: 274

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Limited quantity: 0
 Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 3190
14.2. UN proper shipping name: SELF-HEATING SOLID, INORGANIC, N.O.S. (Activated copper oxide)
14.3. Transport hazard class(es): 4.2
14.4. Packing group: II
 Hazard label: 4.2



Marine pollutant: YES
 Special Provisions: 274
 Limited quantity: 0
 Excepted quantity: E2
 EmS: F-A, S-J

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 3190
14.2. UN proper shipping name: SELF-HEATING SOLID, INORGANIC, N.O.S. (Activated copper oxide)
14.3. Transport hazard class(es): 4.2
14.4. Packing group: II
 Hazard label: 4.2



Special Provisions: A3 A803
 Limited quantity Passenger: Forbidden
 Passenger LQ: Forbidden
 Excepted quantity: E2
 IATA-packing instructions - Passenger: 467
 IATA-max. quantity - Passenger: 15 kg
 IATA-packing instructions - Cargo: 470
 IATA-max. quantity - Cargo: 50 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: copper(II) oxide

14.6. Special precautions for user

Refer to section 6 - 8

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Directive 2010/75/EU on industrial emissions: 0%

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Directive 2004/42/EC on VOC in
paints and varnishes:

0 g/L

Information according to Directive
2012/18/EU (SEVESO III):

E1 Hazardous to the Aquatic Environment

Additional information

Safety Data Sheet according to UK-REACH Regulation

The mixture is classified as hazardous according to GHS (GB CLP).

UK REACH Appendix XVII, No (mixture): -

National regulatory information

Water hazard class (D):

3 - highly hazardous to water

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:
copper(II) oxide

SECTION 16: Other information**Changes**

Rev. 1,0; Initial release 23.04.2014

Rev. 1,1; Changes in section: 2, 7, 9, 10, 14, 15,16

Rev. 2,0; 15.05.2023, Changes in section: 1 - 16

Rev. 3,0; 01.04.2025, Changes in section: 1 - 16

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Abbreviations and acronyms

Self-heat: Self-heating substances and mixtures
 Acute Tox: Acute toxicity
 STOT RE: Specific target organ toxicity - repeated exposure
 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)
 CAS: Chemical Abstracts Service
 CLP: Classification, Labelling and Packaging of substances and mixtures
 DNEL: Derived No Effect Level
 d: day(s)
 EINECS: European INventory of Existing Commercial chemical Substances
 ELINCS: European List of Notified Chemical Substances
 ECHA: European Chemicals Agency
 EWC: European Waste Catalogue
 IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
 ICAO: International Civil Aviation Organization
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
 h: hour
 LOAEL: Lowest observed adverse effect level
 LOAEC: Lowest observed adverse effect concentration
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 NOAEL: No observed adverse effect level
 NOAEC: No observed adverse effect concentration
 NLP: No-Longer Polymers
 N/A: not applicable
 OECD: Organisation for Economic Co-operation and Development
 PNEC: predicted no effect concentration
 PBT: Persistent bioaccumulative toxic
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 REACH: Registration, Evaluation, Authorisation of Chemicals
 SVHC: substance of very high concern
 TRGS: Technische Regeln für Gefahrstoffe
 UN: United Nations
 VOC: Volatile Organic Compounds
 WGK: Water Hazard Class (Germany)

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Self-heat. 1; H251	On basis of test data
STOT RE 2; H373	Calculation method
Aquatic Acute 1; H400	Calculation method
Aquatic Chronic 1; H410	Calculation method

Relevant H and EUH statements (number and full text)

H251	Self-heating: may catch fire.
H302	Harmful if swallowed.
H332	Harmful if inhaled.

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H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
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 data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)