

SAFETY DATA SHEET

(according to Regulation (EC) No 1907/2006 (REACH), ANNEX II)

AMMONIUM SULPHATE

Revision date: 01.10.2024 Version 4.4

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product identifier

Trade name:	Ammonium Sulphate
Other names:	Sulfuric Acid Diammonium Salt
Name IUPAC/international chemical name	Diammonium Sulphate/Ammonium Sulphate
INDEX No. and name as listed in Annex VI of CLP:	Not listed
CAS No.:	7783-20-2
EINECS No.:	231-984-1
REACH registration No.:	01-2119455044-46-0050
Molecular formula:	H3N.1/2H2O4S

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

Relevant identified uses:	Fertilisers Intermediates Laboratory chemicals Manufacture of formulations – fertilizers <i>Remarks: Generally the substance is used in industrial and/or professional settings</i>
Uses advised against:	None

1.3 Details of the supplier of the safety data sheet

Only Representative:	Zangas Hoch-und Tiefbau GmbH Schwindgasse 5/1/4 1040 Vienna Austria Phone: +43 1 274 16 366 www.zangasgroup.com E-mail: info@zangasgroup.com
Manufacturer:	PrJSC "AZOT" 72, Heroiv Kholodnoho Yaru Str., Cherkassy, Ukraine Phone: +38 0472 39-63-03 +38 0472 39-23-33 URL website: http://www.azot.ck.ua Email: let@azot.ck.ua sale@azot.ck.ua
E-mail address of the person responsible for this Safety Data Sheet:	PrJSC "AZOT" REACH Department onr@azot.ck.ua
National contact:	Not available

1.4 Emergency telephone number

Emergency phone number:	Phone: +43 1 274 16 366 Opening hours: 9-18 (CET) Languages of the phone service: German, English Phone: + 38 (0472) 39 61 17 Opening hours: 0-24 Languages of the phone service: Ukrainian
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SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance

The substance is not classified as hazardous in accordance with Regulation 1272/2008 (CLP).

Remarks: May be harmful if swallowed. Coughing. Sore throat, shortness of breath/breathing difficulty

2.2 Label elements

Hazard pictogram(s):	Not applicable
Signal word:	No signal word
Hazard statements:	Not applicable
Precautionary statements	
Prevention:	Not applicable
Response:	Not applicable
Storage:	Not applicable
Disposal:	Not applicable

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2.3 Other hazards:		
Substance meets the criteria for PBT according to Regulation (EC) No.1207/2006, Annex XIII	Not applicable	
Substance meets the criteria for vPvB according to Regulation (EC) No.1207/2006, Annex XIII	Not applicable	
Other hazards which do not result in classification	Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.	
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS		
3.1 Substances		
According to the REACH Regulation the product is a mono-constituent		
Name	INDEX No. as listed in Annex VI of CLP	Weight % content (or range)
Ammonium Sulphate	Not listed	Not less than 97 % (w/w)
SECTION 4: FIRST-AID MEASURES		
4.1 Description of first aid measures		
General notes:	Remove contaminated clothing.	
Following eye contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs	
Following skin contact:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur	
Following ingestion:	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur	
Following inhalation:	<i>After inhalation of dust:</i> Fresh air. If difficulties occur: Seek medical attention. <i>After inhalation of decomposition products:</i> Keep patient calm, remove to fresh air, seek medical attention. The exposed person may need to be kept under medical surveillance for 48 hours.	
Self-protection for the first aider:	None	
4.2 Most important symptoms and effects, both acute and delayed		
Potential acute health effects		
Eye contact:	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes	
Inhalation:	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure	
Skin contact:	No known significant effects or critical hazards	
Ingestion:	No known significant effects or critical hazards	
Over-exposure signs/symptoms		
Eye contact:	Adverse symptoms may include the following: irritation redness	
Inhalation:	Adverse symptoms may include the following: respiratory tract irritation coughing	
Skin contact:	No specific data	
Ingestion:	No specific data. May be harmful if swallowed. Nausea, vomiting, diarrhoea.	
Delayed effects	Risk of pulmonary edema	
4.3 Indication of any immediate medical attention and special treatment needed		
<i>Note to physician:</i> In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. <i>Treatment:</i> No specific treatment.		
SECTION 5: FIRE-FIGHTING MEASURES		
5.1 Extinguishing media		
Suitable extinguishing media:	Non-combustible. Use extinguishing media suitable for surrounding materials	
Unsuitable extinguishing media:	None	

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5.2 Special hazards arising from the substance or mixture	
Hazards from the substance or mixture:	Fine dust clouds may form explosive mixtures with air. At temperatures of 235°C can be emitted: ammonia
Hazardous combustion products:	Decomposition products may include the following materials: nitrogen oxides, sulfur oxides, ammonia, amines
5.3 Advice for firefighters	
Special precautions for fire-fighters:	No special measures required
Special protective equipment for fire-fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents
Remarks : References: SECTION 9: Physical and chemical properties	
SECTION 6: ACCIDENTAL RELEASE MEASURES	
6.1 Personal precautions, protective equipment and emergency procedures	
6.1.1 <i>For non-emergency personnel</i> <u>Protective equipment</u> : Put on appropriate personal protective equipment. <u>Emergency procedures</u> : Avoid breathing dust. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. No flares, smoking or flames in hazard area.	
6.1.2 <i>For emergency responders</i> : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".	
6.2 Environmental precautions:	
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	
6.3 Methods and material for containment and cleaning up	
6.3.1 <i>For containment</i> : Avoid creating dusty conditions and prevent wind dispersal.	
6.3.2 <i>For cleaning up</i> : Vacuum or sweep up and place into approved containers for later disposal.	
6.3.3 <i>Other information</i> : Dispose of via a licensed waste disposal contractor.	
6.4 Reference to other sections	
See section 8 for personal protective equipment and section 13 for waste disposal.	
SECTION 7: HANDLING AND STORAGE	
7.1 Precautions for safe handling	
<u>Protective measures</u> : Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust. Avoid contact with eyes. Avoid repeated or prolonged contact with skin or clothing. <u>Measures to prevent fire</u> : Keep away from heat. Keep away from sources of ignition. <u>Measures to prevent aerosol and dust generation</u> : Use with adequate ventilation and local exhaust extraction in work place. <u>Measures to protect the environment</u> : Keep containers closed. Prevent dispersion of dust. Do not let the material enter sewage systems and waterways. <u>Advice on general occupational hygiene</u> : Do not eat, drink or smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.	
7.2 Conditions for safe storage, including any incompatibilities	
Technical measures/Storage conditions:	Store under cool dry conditions. Protect against moisture. The substance/product may cake under the influence of moisture.
Packing materials:	Polypropylene
Requirements for storage rooms and vessels: Storage class:	13
Further information on storage conditions:	None
Incompatible products:	Strong reducing agents, strong acids, finely powdered metals, organic matter, chlorides (chlorates), combustible materials. Ammonium sulfate can react with sodium nitrite at temperatures as low as room temperature producing flames or even explosions. When alkaline substances (metal) are added, ammonia is liberated.
7.3 Specific end use(s):	None
SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION	
8.1 Control parameters	
8.1.1 <i>National occupational exposure limit values</i> : Not available	
8.1.2 <i>National biological limit values</i> : Not available	
8.1.3 <i>PNEC (Predicted No Effect Concentration)</i> :	

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<u>Environmental protection target</u>	<u>PNEC</u>																												
Aqua – freshwater	0.312 mg/L																												
Aqua - marine water	0.0312 mg/L																												
Aqua – intermittent releases	0.53 mg/L																												
Sediment	0.063 mg/kg sediment dw																												
Soil	62.6 mg/kg soil dw																												
Sewage treatment plant	16.18 mg/L																												
Food chain: oral (secondary poisoning)	Since the substance exhibits a low log Pow , secondary poisoning is unlikely to be a relevant exposure route.																												
Air	Due to the ionic nature of ammonium sulphate and its physical chemical properties (negligible vapor pressure and high solubility in water) the atmospheric compartment is considered to be of no relevance.																												
8.1.4 DNEL:	<p style="text-align: center;">ACUTE</p> <table border="1"> <thead> <tr> <th rowspan="2">Route</th> <th colspan="2">Derived No Effect Level (DNEL)</th> </tr> <tr> <th>Workers</th> <th>General population</th> </tr> </thead> <tbody> <tr> <td>Oral</td> <td>Not applicable</td> <td>Not applicable</td> </tr> <tr> <td>Dermal</td> <td>Not applicable</td> <td>Not applicable</td> </tr> <tr> <td>Inhalation</td> <td>Not applicable</td> <td>Not applicable</td> </tr> </tbody> </table> <p style="text-align: center;">LONG TERM (Systemic effects)</p> <table border="1"> <thead> <tr> <th rowspan="2">Route</th> <th colspan="2">Derived No Effect Level (DNEL)</th> </tr> <tr> <th>Workers</th> <th>General population</th> </tr> </thead> <tbody> <tr> <td>Oral</td> <td>Not applicable</td> <td>6.4 mg/kg bw/day</td> </tr> <tr> <td>Dermal</td> <td>42.667 mg/kg bw/day</td> <td>12.8 mg/kg bw/day</td> </tr> <tr> <td>Inhalation</td> <td>11.167 mg/m³</td> <td>1.667 mg/m³</td> </tr> </tbody> </table> <p>Acute/short-term DNELs were not calculated as they are covered by calculation of long-term DNELs. No local dermal or irritating effects were observed in repeated dose studies</p>	Route	Derived No Effect Level (DNEL)		Workers	General population	Oral	Not applicable	Not applicable	Dermal	Not applicable	Not applicable	Inhalation	Not applicable	Not applicable	Route	Derived No Effect Level (DNEL)		Workers	General population	Oral	Not applicable	6.4 mg/kg bw/day	Dermal	42.667 mg/kg bw/day	12.8 mg/kg bw/day	Inhalation	11.167 mg/m ³	1.667 mg/m ³
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8.1.5 Monitoring procedures:	Not available																												
8.2 Exposure controls																													
8.2.1 Appropriate engineering controls:																													
Substance/mixture related measures to prevent exposure during identified uses: The usual precautions for the handling of chemicals must be observed. Before direct contact with the substance use personal protection equipment.																													
Technical measures to prevent exposure: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits																													
8.2.2 Personal protection equipment:																													
8.2.2.1 Respiratory protection:	Wear dust protection mask, suitable protective equipment																												
8.2.2.2 Eye and face protection:	Safety glasses with side shields, suitable protective equipment																												
8.2.2.3 Skin protection: Hand protection: Other skin protection:	4-8 hours (breakthrough time): Butyl rubber. PVC Working clothes																												
8.2.2.4 Thermal hazards:	None																												
8.2.3 Environmental exposure controls:	Dispose of rinse water in accordance with local and national regulations																												
Advice on personal protection is applicable for high exposure levels. Select proper personal protection based on a risk assessment of the actual exposure situation																													
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES																													
9.1 Information on basic physical and chemical properties																													
Appearance	Solid crystals or granules, white																												
Odour:	Odourless																												
Odour threshold:	Not available																												
pH:	Not available																												
Melting/Freezing point:	> 235 °C (decomposes)																												
Initial boiling point and boiling range:	Not applicable, decomposes before the boiling point is reached																												
Evaporation rate:	Not available																												

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Flash-point:	Not applicable, the substance is inorganic and solid.				
Flammability (solid, gas):	Non-flammable				
Auto-ignition temperature	Not applicable, the substance is a solid and self-heating of the substance up to 400° C is excluded.				
Upper/lower flammability or explosive limits	Not applicable.				
Oxidising properties	None				
Vapour pressure:	0.000000004053 hPa at 25°C				
Vapour density:	Not available				
Relative density:	1.77 at 25°C				
Solubility in water:	767 g/l at 25°C				
Partition coefficient n-octanol/water:	Not applicable				
Decomposition temperature:	Not available				
Viscosity:	Not applicable				
Explosive properties:	Non explosive. There are no chemical groups associated with explosive properties present in the molecule.				
9.2 Other information					
Molecular weight: 132.14 g/mole					
SECTION 10: STABILITY AND REACTIVITY					
10.1 Reactivity					
No specific test data related to reactivity available for this product or its ingredients.					
10.2 Chemical stability					
Stable under recommended storage and handling conditions (see section 7, handling and storage).					
10.3 Possibility of hazardous reactions					
No hazardous reaction when handled and stored according to these provisions (see section 7, handling and storage).					
10.4 Conditions to avoid					
Excess moisture and heat, aerosols and dust generation.					
10.5 Incompatible materials					
Oxidizing substances and bases. Alkali metals, chlorates, nitrites (potassium chlorate, potassium nitrite, potassium nitrate, ammonium nitrate).					
10.6 Hazardous decomposition products					
Under normal conditions of storage and use, hazardous decomposition products should not be produced. However, oxides of sulfur, nitrogen oxides (NO _x) and ammonia (NH ₃) can be emitted.					
SECTION 11: TOXICOLOGICAL INFORMATION					
11.1 Information on toxicological effects					
11.1.1 Acute toxicity					
<i>Route of exposure</i>	<i>Species</i>	<i>Method</i>	<i>Effective dose</i>	<i>Exposure time</i>	<i>Results</i>
Oral:	rat (Gassner) male/female	oral: gavage equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)	–	–	LD ₅₀ : 4250 mg/kg bw
Dermal:	rat (Wistar) male/female, mouse (ddY) male/female	Coverage: open OECD Guideline 434 (Acute Dermal Toxicity – Fixed Dose Procedure)	–	–	LD ₅₀ : 2000 mg/kg bw
Inhalation:	rat (Sprague-Dawley) male	inhalation: aerosol (nose only) equivalent or similar to OECD Guideline 433 (Acute Inhalation Toxicity: Fixed Concentration Procedure)	–	8 h/d	LC ₅₀ : 1000 mg/mi air
11.1.2 Skin corrosion/irritation:		Not irritating			
11.1.3 Serious eye damage/irritation:		Not irritating			
11.1.4 Respiratory or skin sensitization:		Not sensitizing			
11.1.5 Germ cell mutagenicity:		Negative			
11.1.6 Reproductive toxicity:		Negative			
11.1.7 Carcinogenicity:		Not carcinogenic			
11.1.8 Aspiration hazard:		Reason for no classification: data lacking			

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11.1.9 STOT-single exposure	Not available
11.1.10 STOT-repeated exposure	Not available
SECTION 12: ECOLOGICAL INFORMATION	
12.1 Toxicity	
Fish (freshwater, short-term):	Acute harmful to fish
Fish (freshwater, long-term):	EC20 = 1.35 mg N/L EC10 = 1.12 mg N/L = 5.29 mg/l
Freshwater invertebrates (short-term):	With high probability acute not harmful to aquatic invertebrates
Freshwater invertebrates (long-term):	EC10 of 3.12 mg/l
Freshwater algae:	With high probability acute not harmful to algae
Terrestrial plants:	The substance is widely used as a plant nutrient (N-source) in fertilizer, hence toxicity is unlikely
Soil macro-organisms:	The substance is widely used as a plant nutrient (N-source) in fertilizer, hence toxicity is unlikely
Birds:	No information on acute or chronic effects on birds is available. However, since the substance exhibits a low log Pow, secondary poisoning is unlikely to be a relevant exposure route.
Mammals:	Not available
12.2 Persistence and degradability	
<i>Abiotic degradation</i>	
Hydrolysis:	According to structural properties, hydrolysis is not expected/probable.
<i>Phototransformation/photolysis</i>	
Phototransformation in air:	Degradation by photolytic processes can be excluded.
Phototransformation in water:	Due to the rapid ionization in aqueous solution, phototransformation in water is not expected.
Phototransformation in soil:	Due to the rapid ionization in aqueous solution, phototransformation in soil is not expected.
<i>Biodegradation:</i>	Inorganic substance, biodegradation testing is not applicable
12.3 Bioaccumulative potential	
Due to the low log Kow value ammonium sulphate is not likely to undergo bioaccumulation	
12.4 Mobility in soil	
Known or predicted distribution to environmental compartments:	Based on the physico-chemical properties of ammonium sulfate, water is expected to be the main target compartment. Based on the high water solubility a low geoaccumulation potential and high mobility in soil is to be expected. However, due to ion-ion interactions it is to be expected that mobility in soil is significantly reduced. Ammonium sulfate will not volatilise from soil.
Surface tension	Based on chemical structure, no surface activity is to be expected.
Adsorption/Desorption	Adsorption to solid soil phase is possible.
12.5 Results of PBT and vPvB assessment	
The PBT and vPvB criteria of Annex XIII to the Regulation do not apply to inorganic substances.	
12.6 Other adverse effects: None	
12.7 Additional information: None	
SECTION 13: DISPOSAL CONSIDERATIONS	
13.1 Waste treatment methods	
13.1.1 Product / Packaging disposal:	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Waste codes / waste designations according to LoW (Commission Decision 2001/118/EC):	06 10 99 Wastes not otherwise specified
13.1.2 Waste treatment-relevant information:	The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.
13.1.3 Sewage disposal-relevant information:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
13.1.4 Other disposal recommendations:	Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

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SECTION 14: TRANSPORT INFORMATION

Ammonium sulphate is not classified as a dangerous substance when carried by road (ADR), train (RID) or maritime (IMDG)				
	ADR/RID	ADN/ADNR	IMDG	IATA
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	–	–	–	–
14.3 Transport hazard class(es)	–	–	–	–
14.4 Packing group	–	–	–	–
14.5 Environmental hazards	No	No	No	No
14.6 Special precautions for user	Not available	Not available	Not available	Not available
Additional information	–	–	–	–
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available				

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture

EU Regulations

Authorisations and/or restrictions on use:

Authorisation:

EU Regulation (EC) No. 1907/2006 (REACH)
Annex XIV - List of substances subject to authorisation
Substances of very high concern

None of the components are listed

Restrictions on use:

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable

National regulations (*country*): Not available

15.2 Chemical safety assessment:

In accordance with REACH Article 14 a Chemical Safety Assessment has been carried out for this substance.

SECTION 16: OTHER INFORMATION

The information provided in this safety data sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any proceed, unless specified in the text.

16.1 Indication of changes:

v. 3.0: Changes were made to comply with the Guidance on the compilation of safety data sheets (version 1.1)
v. 3.1: Changes were made to comply with Article 61 (CLP)
v. 4.0: Change of contact details

v. 3.0: Page header; 1.1; 1.3; 1.4; 3.1; 4.1; 6.1; 6.3; 7.1; 7.2; 7.3; 8.1; 8.2; 9.1; 11.1; 12.2; 12.4; 12.6; 12.7; 13.1; 15.1
v. 3.1: Page header; 2.1; 16.2
v. 4.0: Page header; 1.3
v. 4.1: Page header; 1.3
v. 4.2: Page header; 1.3
v. 4.3: Page header; 1.3, 1.4
v. 4.4: Page header; 1.4

16.2 Abbreviations and acronyms:

- ADN - European Agreement concerning the International Carriage of Dangerous Goods on Inland Waterway
- ADNR - ADN Rhine
- ADR - Agreement on Dangerous Goods by Road
- CAS - Chemical Abstracts Service
- CLP - Classification, Labelling and Packaging of chemicals
- EC - European Commission
- EC10 – 10% of maximal effective concentration
- EC20 – 20% of maximal effective concentration
- EINECS - European Inventory of Existing Commercial Chemical Substances

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<ul style="list-style-type: none"> • EU – European Union • IATA - International Air Transport Association • IBC Code - International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk • IMDG - International Maritime Dangerous Goods • IUPAC - International Union of Pure and Applied Chemistry • LC50 - Lethal Concentration • LD50 - Lethal Dose • LoW - List of Wastes • MARPOL - International Convention for the Prevention of Pollution From Ships • OECD - Organization for Economic Co-operation and Development • PBT - Persistent, bioaccumulative, toxic chemical • PJSC - Public Joint-Stock Company • PVC - Polyvinyl chloride • REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals • RID - International Rule for Transport of Dangerous Substances by Railway • STOT - Specific Target Organ Toxicity • UN - United Nations • vPvB - very persistent, very bioaccumulative 	
<p>16.3 Key literature references and sources for data: CSR (Chemical Safety Report), Guidance on safe use etc.</p>	
<p>16.4 Training advice:</p>	<p>In accordance with the local regulations</p>
<p>16.5 Further information:</p>	<p>None</p>