

SAFETY DATA SHEET

Monoammonium phosphate



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

1.1 Product identifier

Product name: Monoammonium phosphate**EC number:** 231-764-5

Registration number	Legal entity
01-2119488166-22-0061	-

CAS number: 7722-76-1**Other means of identification:** -**Chemical formula:** H₂O₄P.H₄N

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

Identified Uses: Agricultural industry Industrial use Food/Feedstuff Binders Fertilizer. Flame retardant.

Intermediate. Pharmaceuticals. Wood preservative

Manufacture of solid/liquid fertilizers – Industrial use: SU01, SU08; PC12; PROC01, PROC02, PROC03, PROC05, PROC08b, PROC09, PROC26; ERC01.

Use as Flame retardant agent (UCN B45000) for textiles, furnitures, wood, paper, matches, plastic & cellulose – Industrial use: SU05, SU06a, SU06b, SU12, S118, SU18; PC0 (UCN B45000); PROC03, PROC05, PROC09, PROC26; ERC02, ERC03.

Manufacture of fire extinguisher powder – Industrial use: PC0 (UCN B50000); PROC03, PROC05, PROC09, PROC26; ERC02, ERC03.

Manufacture of frits for enamel – Industrial use: SU0 (NACE C23.4); PC0 (UCN G15000); AC4; PROC05, PROC09, PROC22, PROC23.

Binder in refractory brick, tiles – Industrial use: SU0 (NACE 23.2); PC0 (UCN B20300); PROC05, PROC09; ERC 02.

Manufacture of Ammonium polyphosphates, Flame retardants, Paints and Coatings, Wild fire eraser – Industrial use: SU05, SU06a, SU08, SU09, Su10, SU12; PC09a, PC19, PC23, PC26, PC32, PC34; PROC02, PROC03, PROC05, PROC07, PROC09, PROC10, PROC13, PROC14; ERC01, ERC02, ERC03, ERC5, ERC6c,

Use of fire extinguisher powder – Professional use: PC0 (UCN B50000); PROC03, PROC05. PROC09, PROC11, PROC26; ERC08a, ERC08d.

Use of solid fertilizers NPK/PK: Surface spreading or incorporation at open fields and/or forest fertilization, fertilization of amenity (parks, public lawns, sport fields golf courses) – Professional use: PC12; PROC08a, PROC09, PROC19, PROC26; ERC08b, ERC08e.

Use of liquid fertilizes: Surface spreading or incorporation through pipes at open field, Fertilization of amenity (parks, public lawns, golf courses), greenhouse application, fertigation – Professional use: PC12, PROC08a, PROC09, PROC11; ERC08a, ERC08e.

Dilution of liquid soluble fertilizers – Professional use: PC12; PROC05, PROC08a; ERC02.

Use of fire extinguisher powder – Consumer use: PC0 (UCN B50000); ERC08a, ERC08d.

Use of solid fertilizers: surface spreading at home gardens – consumer use: PC12; ERC08d.

Dilution and use of liquid fertilizers: surface spreading at home gardens – Consume use: PC12, ERC08d.

Dilution and use of liquid fertilizers: indoor home – Consume use: PC12, ERC08a.

1.3 Details of the supplier of the safety data sheet

Manufacturer:

Open Joint-Stock Company "The hydrometallurgical plant"

Legal address: Russia, 357340, Lermontov, Stavropolskiy reg. st. Promyshlennaya 7

Postal address: Russia, 357340, Lermontov, Stavropolskiy reg. st. Promyshlennaya 7

Tel: +7 (879-35) 3-76-59

e-mail: contact@gmz.stv.ru

e-mail address of person**responsible for this SDS:** cert@a-group.com

Only representative

REACHLaw Ltd.

Street address

Vänrikinkuja 3 JK 21

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Postcode and post office 02600 Espoo, Finland
 Telephone +358(0) 9 412 3055
 Email SDS@reachlaw.fi
 Webpage www.reachlaw.fi

1.4 Emergency telephone number

Supplier

Telephone number: +7 (879-35) 3-76-59 (Mo-Fr, 10-19 h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition: Mono-constituent substance

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word: No signal word.
Hazard statements: No known significant effects or critical hazards.

Precautionary statements

Prevention: Not applicable.
Response: Not applicable.
Storage: Not applicable.
Disposal: Not applicable.

Hazardous ingredients: Not applicable.
Supplemental label elements: Not applicable.

Annex XVII - Restrictions: on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not applicable.

2.3 Other hazards

Substance meets the: criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII Not applicable.

Substance meets the: criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII Not applicable.

Other hazards which do: not result in classification None known.

SECTION 3: Composition/information on ingredients

3.1 Substances: Mono-constituent substance

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 ICLPI	Type

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)

<i>Monoammonium phosphate</i>				
ammonium dihydrogenorthophosphate	REACH #: 01-2119488166-29-0061 EC: 231-764-5 CAS: 7722-76-1	>99,4	Not classified.	[A]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

[A] Constituent

[B] Impurity

[C] Stabilizing additive

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures**4.1 Description of first aid measures**

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.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. 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.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

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.

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.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : 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.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

- Suitable extinguishing media** : Use dry chemical, CO₂, water spray (fog) or foam. Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : No specific fire or explosion hazard.
- Hazardous combustion products** : Decomposition products may include the following materials:
nitrogen oxides
phosphorus oxides

5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- 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 fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
- Additional information (Explosibility)** : None.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : 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 spilled material. Avoid breathing dust. Put on appropriate personal protective equipment.
- For emergency responders** : 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 spilled 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 materials for containment and cleaning up

- Small spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor.

- 6.4 Reference to other sections** : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust.

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Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Section 7. Handling and storage: The information in this section contains generic advice and guidance.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational monitoring limits : No exposure limit value known.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurements strategy) European Standard EN 14042 (Workplace atmospheres – Guidance for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurements of chemical agents) Reference to nation guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

DNEL/DMEL Summary : Not applicable.

PNECs

PNEC Summary : Not applicable.

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor 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.

Individual protection measures

Hygiene measures : 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. Ensure that eyewash stations and safety showers are close to the workstation location.

- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. If operating conditions cause high dust concentrations to be produced, use dust goggles.
Recommended: Wear safety glasses with side protection on accordance with EN 166.

SECTION 8: Exposure controls/personal protection

Skin protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Recommended: Wear suitable gloves tested to EN374.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Recommended: Particle filter device (DIN EN 143), Filter type: P2.
- Environmental exposure: controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

- Physical state** : Solid. [Powder.]
- Color** : White. [Light.]
- Odor** : Characteristic.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : 197 °C.
- Initial boiling point and boiling range** : Not available.
- Flash point** : Not available.
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Non-flammable.
- Upper/lower flammability or explosive limits** : Not available.
- Vapor pressure** : 0.0000015 kPa [room temperature]
- Vapor density** : Not available.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)**Monoammonium phosphate**

Relative density	: 1.81
Solubility(ies)	: Not available.
Solubility in water	: >100 g/l
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
Explosive properties	: None.
Oxidizing properties	: None.

9.2 Other information

Molecular weight	: 115.03 g/mole
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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	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Avoid dust generation. Protect from moisture. Keep away from heat.
10.5 Incompatible materials	: Reactive or incompatible with the following materials: alkalis, strong acids, Magnesium.
10.6 Hazardous Decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Product/ingredient name	Results	Species	Dose	Exposure	Remarks
ammonium dihydrogenorthophosphate	LC50 Inhalation Dusts And mists	Rat – Male, Female	> 5 mg/l	4 hours	Test substance: CAS no. 7783-28-0 (read-across)
	LD50 Dermal [OECD 402]	Rat – Male, Female	> 5000 mg/kg	-	-
	LC50 Oral [OECD 425]	Rat	> 2000 mg/kg	-	-

Conclusion/Summary : Based on available data, the classification criteria are not met.

Irritation/Corrosion

Product/ingredient name	Results	Species	Score	Exposure	Observation	Remarks
ammonium dihydrogenorthophosphate	Skin – Non-irritating to the skin. [OECD 404]	Rabbit	-	-	-	-
	Eyes – Non-irritating to the eyes. [OECD 405]	Rabbit	-	-	-	-

Conclusion/Summary

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

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Sensitization

Product/ingredient name	Route of exposure	Species	Results	Remarks
ammonium dihydrogenorthophosphate	Skin	Mouse	Non sensitizing [OECD 429]	-

Conclusion/Summary

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

Mutagenicity

Product/ingredient name	Test	Experiment	Results	Remarks
ammonium dihydrogenorthophosphate	OECD 471	Experiment: In vitro Subject: Bacteria	Negative	Test substance: CAS no. 7783-28-0 (read-across)
	OECD 476	Experiment: In vitro Subject: Mammalian-Animal	Negative	-
	OECD 473	Experiment: In vitro Subject: Mammalian-Animal	Negative	Test substance: CAS no. 7783-28-0 (read-across)

Conclusion/Summary : Based on available data, the classification criteria are not met.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure	Remarks
Diammonium hydrogenorthophosphate	-	-	-	Rat – Male, Female	Oral: ≥ 1500 mg/kg NOAEL	-	OECD 422 Test substance: CAS no. 7783-28-0 (read-across)

Conclusion/Summary : Based on available data, the classification criteria are not met.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Exposure to airborne concentration above statutory or recommended exposure limits may cause irritation of the eyes.

inhalation : Exposure to airborne concentration above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)*Monoammonium phosphate*

- 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.

Delayed and immediate effects and also chronic effect from short and long term exposure**Short term exposure**

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Potential chronic health effects

Product/ingredient name	Results	Species	Dose	Exposure	Remarks
Diammonium hydrogenorthophosphate	Sub-chronic NOAEL Oral [OECD 422]	Rat – Male, Female	250 mg/kg	-	Test substance: CAS no. 7783-28-0 (read-across)

- Conclusion/Summary** : Based on available data, the classification criteria are not met.
- General** : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.
- Other information** : Not available.

SECTION 12: Ecological information**12.1 Toxicity**

Product/ingredient name	Results	Species	Exposure	Remarks
ammonium dihydrogenorthophosphate	Acute EC50 > 100 mg/l [OECD 209]	Micro-organism	3 hours	Test substance: CAS no. 7783-28-0 (read- across)
	NOEC 100 mg/l [OECD 209]	Micro-organism	3 hours	Test substance: CAS no. 7783-28-0 (read- across)
	Acute EC50 > 100 mg/l Fresh water	Algae	72 hours	-
	Acute LC50 >85.9 mg/l [OECD 203]	Fish – Oncorhynchus mykiss	96 hours	-
	Chronic NOEC 100 mg/l Fresh water	Algae	72 hours	-

Conclusion/Summary : Based on available data, the classification criteria are not met.

12.2 Persistence and degradability

Conclusion/Summary : The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (Koc) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.
P: Not available. B: Not available. T: Not available.

vPvB : Not applicable.
vP: Not available. vB: Not available.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance.

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

The allocation of waste identity numbers/waste descriptions must be carried out according to the ECC, specific to the industry and process.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)

<i>Monoammonium phosphate</i>				
14.3 Transport hazard class(es)	-	-	-	-
Label				
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	Marine Pollutant: No	No.

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code : Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**EU Regulation (EC) No. 1907/2006 (REACH)****Annex XIV - List of substances subject to authorization****Annex XIV**

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Other EU regulations**Ozone depleting substances (1005/2009/EU)**

Not listed.

Prior informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations**International regulations****Chemical Weapon Convention List Schedules I, II & III Chemicals**

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

- Australia inventory (AICS)** : This material is listed or exempted.
- Canada** : This material is listed or exempted.
- China** : This material is listed or exempted.
- Europe** : This material is listed or exempted.
- Japan** : **Japan inventory (ENCS):**
This material is listed or exempted.
- New Zealand** : This material is listed or exempted.
- Philippines** : This material is listed or exempted.
- Republic of Korea** : This material is listed or exempted.
- Taiwan** : This material is listed or exempted.
- Turkey** : This material is listed or exempted.
- United States** : This material is listed or exempted.

15.2 Chemical Safety Assessment: : Complete.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

- Abbreviations and acronyms:**
- ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
 - ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
 - ATE = Acute Toxicity Estimate
 - BCF = Bioconcentration Factor
 - CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 - DMEL = Derived Minimal Effect Level
 - DNEL = Derived No Effect Level
 - EUH statement = CLP-specific Hazard statement
 - IATA = International Air Transport Association
 - IBC = Intermediate Bulk Container
 - IMDG = International Maritime Dangerous Goods
 - LogPow = logarithm of the octanol/water partition coefficient
 - MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
 - PBT = Persistent, Bioaccumulative and Toxic
 - PNEC = Predicted No Effect Concentration
 - RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
 - RRN = REACH Registration Number
 - vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

Full text of abbreviated H statements

Not applicable.

Full text of classifications [CLP/GHS]

Not applicable.

Date of issue/ Date of revision : 03/06/2020

Date of previous issue : 30/11/2018

Version : 7

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.