## SAFETY DATA SHEET

### Section 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. PRODUCT IDENTIFIER Substance name: Ammonium sulfate EC No.: 231-984-1 CAS No.: 7783-20-2 REACH Registration No.: -. Trade name: Granular ammonium sulfate

### 1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

**Relevant identified uses:** The substance is intended for use in agriculture, including farming, municipal, as well as for retail sale as nitrogen, ammonia, and sulphur-containing fertilizer. It can be used in the chemical and other industries.

Uses advised against: Not data available.

#### **1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET** Supplier:

196210, Russia, St. Petersburg, 8A Startovaya str., Off 204, Russian Federation Tel. No.: +7 812 334 43 85

Electronic mail address of the person, responsible for the safety data sheet:

E-mail: office@ultramar.spb.ru

#### **1.4. EMERGENCY TELEPHONE NUMBER**

Poison Control Centre (Austria) Tel. No.: +43 1 406 4343

Antigif Centrum Centre Antipoisons (Belgium) Tel. No.: +32 070 245 245

National Toxicology Centre, Hospital for Active Medical Treatment and Emergency Medicine "N.I.Pirogov" (Bulgaria) Tel. No. / fax: +359 2 9154 233

Poison Control Centre (Croatia) Tel. No.: +385 1 234 8342

Toxicological Information Centre (Czech Republic) Tel. No.: +420 224 919 293 / +420 224 915 402

Poison Control Hotline (Denmark) Tel. No.: +45 82 12 12 12

Poisoning Information Centre (Estonia) Tel. No.: +372 794 3794 (or 16662 national)

Poison Information Centre (Finland) Tel. No.: +358 09 471 977

ORFILA (INERIS) (France) Tel. No.: +33 (0) 1 45 42 59 59

Health Toxicological Information Service (Hungary) Tel. No.: +36 80 20 11 99

Poison Centre (Iceland)

Tel. No.: +354 543 2222

National Poisons Information Centre (Ireland) Tel. No.: +353 (0)1 809 2566 / +353 (0)1 837 9964

Valsts Toksikoloģijas centrs, Saindēšanās un zāļu informācijas centrs (Latvia) Tel. No.: +371 670 42473

The State Medicines Control Agency (SMCA), Poison Information Bureau (PIB) (Lithuania) Tel. No.: +370 5 236 20 52

Mater Dei Hospital (Malta) Tel. No.: +356 2545 0000

National Poisons Information Centre (NVIC) (Netherlands) Tel. No.: +31 (0) 30 274 8888

Mental Health Helpline (Norway) Tel. No.: +47 22 59 13 00

Instituto Nacional de Emergência Médica (Portugal) Tel. No.: +351 213 303 271

Biroul RSI si Informare Toxicologica (Romania) Tel. No.: +40 021 318 3606

National Toxicological Information Centre (NTIC) (Slovakia) Tel. No.: +421 2 5477 4166

Toxicology Information Service (Spain) Tel. No.: +34 91 562 04 20

Swedish Poisons Information Centre (Sweden) Tel. No.: +46 08 331231

#### Section 2. HAZARDS IDENTIFICATION

### 2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

**2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP]** Not Classified.

#### 2.1.2. Additional information:

Full text of H phrases, hazard and EU hazard statements in Section 16.

2.2. LABEL ELEMENTS
2.2.1. Label according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms: None.
Signal word: None.
Hazard statements: None.
Precautionary statements: None.

Supplemental label information: None.

#### 2.3. OTHER HAZARDS

The substance does not meet the criteria for a PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.

#### Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. SUBSTANCES

Substance	CAS No.	EC No.	Classification: According Regulations (EC) No. 1272/2008	Concentration, (%)
Ammonium sulphate	7783-20-2	231-984-1	Not Classified.	100%

**Additional information:** The full text of H-statements: see section 16.

### 3.2. MIXTURES

Not applicable.

### Section 4. FIRST AID MEASURES

### 4.1. DESCRIPTION OF FIRST AID MEASURES

**General information**. Get medical attention if any discomfort develops.

**Following skin contact.** Rinse thoroughly with water and soap. Get medical attention if irritation develops and persists.

**Following eye contact.** Rinse with running water for at least 15 minutes under running water with open eyelids. Remove contact lenses, if any. Continue rinsing. Get medical attention immediately, if irritation continues.

**Following inhalation.** Move to fresh air and place in a position comfortable for breathing. Call a physician if symptoms develop or persist.

**Following ingestion.** Rinse mouth. If ingestion of a large amount does occur, call a poison control centre immediately.

Self-protection of the first aider. To care for their own safety!

#### 4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

After inhalation: Cases of acute toxicity for this product is not described, but the product can cause a scratchy throat, cough, impaired respiration frequency and rhythm. In contact with skin: Possible mechanical irritation. Eye Contact: Upon contact may cause slight irritation, redness. If swallowed: Lethargy, headache, scratchy and sore throat, shortness of breath, breathing rhythm, nausea, vomiting, stomach pain, diarrhea.

#### 4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Hazards: After inhalation of decomposition products: Risk of pulmonary edema. Symptoms may appear later. Treatment: After inhalation decay products: Prevention of pulmonary edema. In case an intoxication is suspected, National Poisons Information Centre should be addressed immediately, number of Emergency telephone see in section 1.4.

#### Section 5. FIREFIGHTING MEASURES

**General fire hazards.** The substance is non-flammable Clear fire area of all non-emergency personnel.

#### 5.1. EXTINGUISHING MEDIA

**Suitable extinguishing media**. Water spray, foam, dry chemical powder or CO<sub>2</sub>. **Unsuitable extinguishing media**. Do not use water jet as an extinguisher, as this will spread the fire.

#### 5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

At a temperature of 235 °C can be released ammonia and sulfur trioxide, causing pulmonary edema.

### 5.3. ADVICE FOR FIREFIGHTERS

**Special protective equipment for firefighters.** Fire fighters to wear self-contained breathing apparatus (SCBA) and suitable protective clothing if risk of exposure to substance of decomposition. Do not breathe dust and the products of combustion.

**Special firefighting procedures.** Do not breathe fire released materials. Move containers away from fire area, if it can be done without risk. Use water mist cooling unopened containers. Cooling tanks pouring sufficient water and fire go out. Prevent the material from entering the drainage system, surface waters.

### Section 6. ACCIDENTAL RELEASE MEASURES

#### 6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

**For non-emergency personnel.** Keep unnecessary personnel away. Avoid breathing dust. Wear appropriate protective equipment and clothing during clean-up.

**For emergency responders.** Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the MSDS.

#### 6.2. ENVIRONMENTAL PRECAUTIONS

Prevent contamination of soil and water. Prevent further spillage if safe to do so.

#### 6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Sweep or shovel spills into appropriate container for disposal.

#### 6.4. **REFERENCE TO OTHER SECTIONS**

For personal protection, see Section 8. For waste disposal, see section 13.

#### Section 7. HANDLING AND STORAGE

#### 7.1. PRECAUTIONS FOR SAFE HANDLING

**Advice on safe handling.** Put on appropriate personal protective equipment (see Section 8). Avoid contact with skin and eyes. Avoid breathing dust. 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.

Advice on protection against fire and explosion. Keep away from heat. Keep away from sources of ignition.

#### 7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep containers closed when not in use. Do not store in direct sunlight. Store at ambient temperature and atmospheric pressure. Avoid contact with nitrites and alkali.

#### 7.3. SPECIFIC END USE(S)

Not data available.

#### Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. CONTROL PARAMETERS

**Occupational exposure limits.** No exposure limit value known. **Biological limit values.** No exposure limit value known.

**Recommended monitoring procedures.** Follow standard monitoring procedures.

#### 8.2. EXPOSURE CONTROLS

**General information:** Do not eat, drink, smoke at the workplace. Avoid breathing dust. Wash hands before breaks and after work. Provide adequate general and local exhaust ventilation.

#### **INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT**

**General information.** Use personal protective equipment as required. Keep working clothes separately. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection.** Wear protective goggles with side-shields according to EN 166. Skin protection. Wear protective work clothing.

Hand protection. When contact is likely, appropriate protective gloves (EN 374).

**Respiratory protection.** General ventilation normally adequate. In case of inadequate ventilation or risk of inhalation of dust, suitable respiratory equipment (breathing mask). Seek advice from local supervisor (EN 149). Thermal hazards. Not applicable.

**Hygiene measures.** Handle in accordance with good industrial hygiene and safety practices. Eye wash fountain and emergency showers are recommended. Launder contaminated clothing before reuse.

#### **ENVIRONMENTAL EXPOSURE CONTROLS** 8.3.

Contain spills and prevent releases, and observe national regulations on emissions.

### Section 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: solid (crystalline powder / granules) COLOUR: white or transparent crystals ODOUR: none > 280 °C MELTING POINT/FREEZING POINT: BOILING POINT OR INITIAL BOILING POINT AND BOILING RANGE: not applicable FLAMMABILITY (SOLID, LIQUID, GAS): non-flammable LOWER AND UPPER EXPLOSION LIMIT: non-explosive not applicable FLASH POINT: **AUTO-IGNITION TEMPERATURE:** not applicable **DECOMPOSITION TEMPERATURE:** no data available no data available pH: not applicable KINEMATIC VISCOSITY: 767 g/l at 25 °C SOLUBILITY: PARTITION COEFFICIENT (N-OCTANOL/WATER): log Kow -5.1 at 25 °C VAPOUR PRESSURE: not applicable DENSITY AND/OR RELATIVE DENSITY: 1.77 at 25 °C **RELATIVE VAPOUR DENSITY:** not applicable **EXPLOSIVE PROPERTIES:** none **OXIDISING PROPERTIES:** none no data available PARTICLE CHARACTERISTICS:

#### 9.2. **OTHER INFORMATION**

9.2.1. Information with regard to physical hazard classes Not data available. 9.2.2. Other safety characteristics

No additional information.

#### Section 10. STABILITY AND REACTIVITY

#### 10.1. REACTIVITY

Stable under the normal handling, storage and transportation.

#### 10.2. **CHEMICAL STABILITY**

Stable under normal storage conditions.

#### 10.3. **POSSIBILITY OF HAZARDOUS REACTIONS**

Unknown.

#### 10.4. **CONDITIONS TO AVOID**

Avoid moisture and incompatible materials.

#### **10.6. INCOMPATIBLE MATERIALS**

Nitrites, alkali.

#### **10.7. HAZARDOUS DECOMPOSITION PRODUCTS**

No data available.

### Section 11. TOXICOLOGICAL INFORMATION

### 11.1. INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) No. 1272/2008 Acute toxicity:

<u>Ammonium sulphate, CAS No. 7783-20-2</u>: Acute Oral Toxicity: LD50 – 4250 mg/kg bw (rat); Acute Inhalation Toxicity: LC0 – 3.5 mg/m<sup>3</sup>/4h (aerosol) (rat); Acute Dermal Toxicity: LD50 – >2000 mg/kg bw (rat).

Skin corrosion/irritation. Not classified.
Serious eye damage/eye irritation. Not classified.
Respiratory sensitisation. Not classified.
Skin sensitisation. Not classified.
Germ cell mutagenicity. Not classified.
Carcinogenicity. Not classified.
Carcinogenicity. Not classified.
STOT – single exposure. Not classified.
STOT – repeated exposure. Not classified.
Aspiration hazard. Not classified.

### **11.2. INFORMATION ON OTHER HAZARDS**

**11.2.1. Endocrine disrupting properties** None.

11.2.2. Other information

No data available.

#### Section 12: ECOLOGICAL INFORMATION

#### 12.1. TOXICITY

Ammonium sulphate, CAS No. 7783-20-2: LC50 for freshwater fish: 53 mg/l/96h; LC50 for freshwater invertebrates: 169 mg/l/48h (Daphnia magna); EC50 for freshwater algae: 2700 mg/l/18d (Chlorella vulgaris).

#### **12.2. PERSISTENCE AND DEGRADABILITY**

No data available.

#### 12.3. BIOACCUMULATIVE POTENTIAL

No data available.

#### 12.4. MOBILITY IN SOIL

Mobility. No additional information available.

#### 12.5. RESULTS OF PBT AND vPvB ASSESSMENT

Not a PBT or vPvB substance or mixture.

#### **12.6. ENDOCRINE DISRUPTING PROPERTIES**

No data available.

#### 12.7. OTHER ADVERSE EFFECTS

No known significant effects or critical hazards.

#### Section 13. DISPOSAL CONSIDERATION

#### **13.1. WASTE TREATMENT METHODS**

**Residual waste.** Dispose of contents/container with local/regional/national/international regulations. **Contaminated packaging.** Dispose of as unused product.

EU waste code. No data available.

**Disposal methods/information.** Review federal, state/provincial, and local government requirements prior to disposal.

#### Section 14. TRANSPORT INFORMATION

Transport only in accordance with ADR for road haulage, RID for rail transportation, ADNR/IMDG for carriage by vessel/sea and IATA for carriage by air.

- 14.1. UN number or ID number. Not dangerous goods.
- **14.2. UN proper shipping name.** Not dangerous goods.
- **14.3.** Transport hazard class (es). Not dangerous goods.
- **14.4. Packing group.** Not dangerous goods.
- 14.5. Environmental hazards. No.
- **14.6.** Special precautions for user. Before use read the safety instructions in the safety data sheet and emergency procedures.
- **14.7.** Maritime transport in bulk according to IMO instruments. Not applicable.

#### Section 15. REGULATORY INFORMATION

# 15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

– Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No.793/93, Commission Regulation (EC) No. 1488/94, Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Official Journal of the European Union No. L 396, 30-12-2006, error correction – No. L 136/3, 2007-5-29);

– COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (OJ L 203, 26.6.2020, p. 28–58);

– On 16 December 2008 the Regulation (EC) No. 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of chemical substances and mixtures was undersigned. The said Regulation amended and repealed the directives 67/548/EEC and 1999/45/EC and Regulation (EC) No. 1907/2006 (the REACH Regulation). The Regulation has been published in the Official Journal of the European Union No. L 353, volume 51 on 31 December, 2008;

- COMMISSION REGULATION (EU) 2016/918 of 19 May 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures. The Regulation has been published in the Official Journal of the European Union No. L 156, on 14 June, 2016;

- The European Agreement concerning International Carriage of Dangerous Goods by Road (ADR).

#### **15.2. CHEMICAL SAFETY ASSESSMENT**

For this substance a chemical safety assessment has not been carried out.

### Section 16. OTHER INFORMATION

#### **16.1. INDICATION OF CHANGES**

Information contained in the Regulation 1907/2006/EC with the Regulation 2020/878. **Indication of changes:** –. Date of filling: 16-05-2022 Revision: –. Version No.: 1

### 16.2. FULL TEXT OF HAZARD AND PRECAUTIONARY STATEMENTS

None.

#### Supplemental label information: None.

Abbreviations: None.

#### Acronyms:

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road.

- ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
- RID Regulations concerning the International Carriage of Dangerous Goods by Rail.
- IMDG International Maritime Dangerous Goods.

IATA – International Air Transport Association.

IMO – International Maritime Organization.

vPvB – Very Persistent and Very Bioaccumulative.

PBT – Persistent, Bioaccumulative and Toxic substance.

LC50 – Lethal Concentration to 50 % of a test population.

LD50 – Lethal Dose to 50% of a test population (Median Lethal Dose).

EC50 – Effective concentration to 50% of a test population (half maximal effective concentration).

- IC50 Inhibitory concentration to 50% of a test population (half maximal inhibitory concentration).
- CAS Chemical Abstracts Service number.
- CEN European Committee for Standardisation.
- STOT Specific Target Organ Toxicity.

PNEC(s) – Predicted No Effect Concentration(s).

ACGIH – Association advancing occupational and environmental health.

NIOSH - National Institute of Occupational Safety and Health.

NOEC – No effect concentration.

MSDS – Material Safety Data Sheet.

#### **KEY LITERATURE REFERENCES AND SOURCES FOR DATA:**

- The data provided by the European Chemicals Bureau (ECB), European Chemicals Agency (ECHA), Swedish Chemicals Agency (KEMI), International Laboratories Organization (ILO), the TOXNET Internet pages.

#### Disclaimer

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