

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## AMMONIUM SULPHATE (AS)

|         |                |              |                                  |
|---------|----------------|--------------|----------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -            |
| 1.0     | 19.08.2022     | 203000002175 | Country / Language: LV / 6N (EN) |

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

#### 1.1 Product identifier

Trade name : AMMONIUM SULPHATE (AS)

EC No. : 231-984-1

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

Use of the Sub- : Fertilizers  
stance/Mixture

#### 1.3 Details of the supplier of the safety data sheet

Company : SIA "LVAGROO"  
Peldu iela 25-2, Liepāja  
Latvia

#### 1.4 Emergency telephone number

Emergency telephone number :  
Valsts ugunsdzēsības un glābšanas dienests, phone number: 112.  
Toksikoloģijas un sepses klīnikas Saindēšanās un zāļu informācijas centrs,  
Hipokrāta 2, Rīga, Latvija, LV-1038, phone number +371 67042473. Service is available 24 hours.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Not a hazardous substance or mixture.

#### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Not a hazardous substance or mixture.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Chemical nature : ammonium sulfate

#### Components

No hazardous ingredients

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General advice : Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.

In case of skin contact : Wash off with plenty of water.  
Remove contaminated clothing and shoes.  
Get medical attention if symptoms appear.

In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

None known.

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

Treatment : No special measures required.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Not combustible.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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striction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered to be a guidance for processing and does not contain any 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 process, unless specified in the text. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.

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fire and explosion is formed.

Hygiene measures : Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep away from alkalis and nitrites.

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re-sealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Engineering measures

Use only with adequate ventilation.

Avoid the formation of dust, if necessary siphoning the product off locally.

#### Personal protective equipment

Eye protection : Tightly fitting safety goggles

Hand protection

Material : Polyvinyl chloride - PVC

Wearing time : < 1 h

Material : Nitrile rubber - NBR

Wearing time : < 1 h

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations

Skin and body protection : Choose body protection according to the amount and concen-

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tration of the dangerous substance at the work place.

Respiratory protection : In case of dust formation particle filter.

Filter type : P1 filter

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

|                                                  |                                  |
|--------------------------------------------------|----------------------------------|
| Appearance                                       | : Crystalline powder             |
| Physical state                                   | : solid                          |
| Colour                                           | : white                          |
| Odour                                            | : odourless                      |
| Odour Threshold                                  | : No data available              |
| Melting point/range                              | : > 235 °C<br>Decomposition: yes |
| Boiling point/boiling range                      | : No data available              |
| Upper explosion limit / Upper flammability limit | : No data available              |
| Lower explosion limit / Lower flammability limit | : No data available              |
| Flash point                                      | : No data available              |
| Decomposition temperature                        | : > 235 °C                       |
| Viscosity                                        |                                  |
| Viscosity, dynamic                               | : No data available              |
| Viscosity, kinematic                             | : No data available              |
| Solubility(ies)                                  |                                  |
| Water solubility                                 | : soluble<br>754 g/l             |
| Solubility in other solvents                     | : No data available              |
| Partition coefficient: n-octanol/water           | : No data available              |

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|                  |   |                                |
|------------------|---|--------------------------------|
| Vapour pressure  | : | No data available              |
| Relative density | : | No data available              |
| Density          | : | 1.77 g/cm <sup>3</sup> (20 °C) |
| Bulk density     | : | 1,000 kg/m <sup>3</sup>        |

### 9.2 Other information

|                        |   |                   |
|------------------------|---|-------------------|
| Explosives             | : | No data available |
| Oxidizing properties   | : | No data available |
| Flammable solids       | : |                   |
| Burning number         | : | No data available |
| Self-ignition          | : | No data available |
| Evaporation rate       | : | No data available |
| Miscibility with water | : | No data available |

## 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 chemically stable.

### 10.3 Possibility of hazardous reactions

|                     |   |                                                                                                                                              |
|---------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------|
| Hazardous reactions | : | May react under flame formation or even explosively at room temperature with nitrites<br>No decomposition if stored and applied as directed. |
|---------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------|

### 10.4 Conditions to avoid

|                     |   |                               |
|---------------------|---|-------------------------------|
| Conditions to avoid | : | Keep away from incompatibles. |
|---------------------|---|-------------------------------|

### 10.5 Incompatible materials

|                    |   |                     |
|--------------------|---|---------------------|
| Materials to avoid | : | Nitrites<br>Alkalis |
|--------------------|---|---------------------|

### 10.6 Hazardous decomposition products

No decomposition if stored normally.

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

Not classified based on available information.

##### Product:

|                           |   |                                                                                                                                                                                                                                                |
|---------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : | LD50 (Rat, male and female): 4,250 mg/kg<br>Method: OECD Test Guideline 401<br>GLP: no                                                                                                                                                         |
| Acute inhalation toxicity | : | LC50 (Rat, male): 3,6 mg/m <sup>3</sup><br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 433<br>Assessment: The substance or mixture has no acute inhalation toxicity<br>Remarks: Dosage caused no mortality |
| Acute dermal toxicity     | : | LD50 (Rat, male and female): > 2,000 mg/kg<br>Method: OECD Test Guideline 434<br>Assessment: The substance or mixture has no acute dermal toxicity<br>Remarks: Dosage caused no mortality                                                      |

##### Skin corrosion/irritation

Not classified based on available information.

##### Product:

|         |   |                    |
|---------|---|--------------------|
| Species | : | Rabbit             |
| Result  | : | No skin irritation |
| GLP     | : | no                 |

##### Serious eye damage/eye irritation

Not classified based on available information.

##### Product:

|         |   |                   |
|---------|---|-------------------|
| Species | : | Rabbit            |
| Result  | : | No eye irritation |

##### Respiratory or skin sensitisation

##### Skin sensitisation

Not classified based on available information.

##### Respiratory sensitisation

Not classified based on available information.

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### **Product:**

|                 |   |                                                    |
|-----------------|---|----------------------------------------------------|
| Exposure routes | : | Skin contact                                       |
| Species         | : | Guinea pig                                         |
| Result          | : | Did not cause sensitisation on laboratory animals. |
| GLP             | : | yes                                                |
| Remarks         | : | Test results on an analogous product               |

### **Germ cell mutagenicity**

Not classified based on available information.

### **Product:**

|                       |   |                                                                                                                                                                      |
|-----------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Genotoxicity in vitro | : | Test system: Salmonella typhimurium<br>Metabolic activation: with and without metabolic activation<br>Method: OECD Test Guideline 471<br>Result: negative<br>GLP: no |
|-----------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|  |   |                                                                                                                                                                            |
|--|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | : | Test system: Chinese hamster fibroblasts<br>Metabolic activation: with and without metabolic activation<br>Method: OECD Test Guideline 476<br>Result: negative<br>GLP: yes |
|--|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|  |   |                                                                                                                                             |
|--|---|---------------------------------------------------------------------------------------------------------------------------------------------|
|  | : | Test system: Human lymphocytes<br>Metabolic activation: without metabolic activation<br>Method: OECD Test Guideline 473<br>Result: negative |
|--|---|---------------------------------------------------------------------------------------------------------------------------------------------|

|                      |   |                                                                                                                                                   |
|----------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Genotoxicity in vivo | : | Test Type: In vivo micronucleus test<br>Species: Mouse (male)<br>Cell type: Bone marrow<br>Application Route: Intraperitoneal<br>Result: negative |
|----------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------|

### **Carcinogenicity**

Not classified based on available information.

### **Product:**

|                   |   |                         |
|-------------------|---|-------------------------|
| Species           | : | Rat, male               |
| Application Route | : | Oral                    |
| Exposure time     | : | 102 weeks               |
| NOAEL             | : | 256 mg/kg body weight   |
| Method            | : | OECD Test Guideline 453 |
| Result            | : | negative                |

|                   |   |                         |
|-------------------|---|-------------------------|
| Species           | : | Rat, female             |
| Application Route | : | Oral                    |
| Exposure time     | : | 102 weeks               |
| NOAEL             | : | 284 mg/kg body weight   |
| Method            | : | OECD Test Guideline 453 |

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Result : negative

### Reproductive toxicity

Not classified based on available information.

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

### Repeated dose toxicity

#### Product:

|                     |                           |
|---------------------|---------------------------|
| Species             | : Rat, male               |
| NOAEL               | : 256 mg/kg               |
| Application Route   | : Inhalation              |
| Test atmosphere     | : dust/mist               |
| Exposure time       | : 14 d                    |
| Number of exposures | : 6 hours/day             |
| Method              | : OECD Test Guideline 453 |
| Remarks             | : Subacute toxicity       |

|                     |                         |
|---------------------|-------------------------|
| Species             | : Rat, male             |
| NOAEL               | : 300 mg/m <sup>3</sup> |
| Application Route   | : Inhalation            |
| Test atmosphere     | : dust/mist             |
| Exposure time       | : 14 d                  |
| Number of exposures | : 6 hours/day           |
| Remarks             | : Subacute toxicity     |

### Aspiration toxicity

Not classified based on available information.

### Further information

#### Product:

Remarks : No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 53 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 168.8 mg/l  
Exposure time: 48 h

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|                                                                        |   |                                                                                                         |
|------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------|
| Toxicity to algae/aquatic plants                                       | : | EC50 (Chlorella vulgaris (Fresh water algae)): 2,700 mg/l<br>Exposure time: 18 Days                     |
| Toxicity to fish (Chronic toxicity)                                    | : | EC10: 5.29 mg/l<br>Exposure time: 30 Days<br>Species: Lepomis macrochirus (Bluegill sunfish)<br>GLP: no |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | EC10: 3.12 mg/l<br>Exposure time: 10 Weeks                                                              |

### 12.2 Persistence and degradability

#### Product:

|                  |   |                                                                                                   |
|------------------|---|---------------------------------------------------------------------------------------------------|
| Biodegradability | : | Remarks: The methods for determining biodegradability are not applicable to inorganic substances. |
|------------------|---|---------------------------------------------------------------------------------------------------|

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

|            |   |                                                                                                                                                                                                    |
|------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Assessment | : | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. |
|------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 12.6 Other adverse effects

#### Product:

|                                   |   |                   |
|-----------------------------------|---|-------------------|
| Additional ecological information | : | No data available |
|-----------------------------------|---|-------------------|

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

|                        |   |                                                                                                                                                                                                                  |
|------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product                | : | The product should not be allowed to enter drains, water courses or the soil.<br>Do not contaminate ponds, waterways or ditches with chemical or used container.<br>Send to a licensed waste management company. |
| Contaminated packaging | : | Empty remaining contents.                                                                                                                                                                                        |

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Dispose of as unused product.  
Do not re-use empty containers.

### SECTION 14: Transport information

#### 14.1 UN number

Not regulated as a dangerous good

#### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

#### 14.4 Packing group

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

Hazard and Handling Notes. : Not dangerous cargo.  
Keep separated from foodstuffs.

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

### SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

|                                                                                                                                            |                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) | : Banned and/or restricted                                                                                          |
| International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors                                                | : Not applicable                                                                                                    |
| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).                                                  | : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57). |
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer                                                                    | : Not applicable                                                                                                    |
| Regulation (EU) 2019/1021 on persistent organic pollu-                                                                                     | : Not applicable                                                                                                    |

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tants (recast)

Council Regulation (EC) No 111/2005 laying down rules : Neither banned nor restricted  
for the monitoring of trade between the Community and  
third countries in drug precursors.

UK REACH List of substances subject to authorisation : Not applicable  
(Annex XIV)

GB Export and import of hazardous chemicals - Prior : Not applicable  
Informed Consent (PIC) Regulation

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of  
major-accident hazards involving dangerous substances.  
Not applicable

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

## SECTION 16: Other information

### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Re-

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