# Safety Data Sheet

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

**Revision Date** 16-Jun-2021 **Version:** 1

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

### 1.1. Product identifier

| | |
|---|---|
| **Product Name** | **Universol Lime 23-5-11+3MgO+TE** |
| **Product Code** | **2072-225HA** |
| **Unique Formula Identifier (UFI)** | **WWQ5-90JJ-A003-9V1N** |
| **Pure substance/mixture** | Mixture |

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

| | |
|---|---|
| **Recommended Use** | Fertilizer (PC12). Restricted to professional users. |
| **Uses Advised Against** | Consumer use (SU21) |

**Reason why uses advised against** Use advised against in Chemical Safety Assessment per REACH Annex I point 7 2.3

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

Everris International B.V.Nijverheidsweg 1-5; 6422 PD Heerlen (NL); Tel: +31 (0)45-5609100; Fax: +31 (0)45-5609190

For further information, please contact: INFO-MSDS@EVERRIS.COM
Non-Emergency Telephone Number +31 (0) 418655700

### 1.4. Emergency telephone number

IN CASE OF AN EMERGENCY CALL: +44 1235 239 670 (24/7)

| | |
|---|---|
| **Europe** | **112** |
| **Austria** | +43 1 406 43 43 |
| **Belgium** | 070 245 245 |
| **Denmark** | +45 8212 1212 |
| **Finland** | 0800 147 111 |
| **France** | + 33 (0)1 45 42 59 |
| **Ireland** | 01 809 2566 |
| **Netherlands** | +31 88 75 585 61 |
| **Norway** | +45 735 80500 |
| **Poland** | +48 42 2538 400 |
| **Portugal** | +351 800 250 250 |
| **Spain** | +34 91 562 04 20 |
| **Sweden** | 112 |
| **Switzerland** | Tox Info Switzerland 145 (24h) |
| **United Kingdom** | 111 |

### 2.1. Classification of the substance or mixture

*Regulation (EC) No 1272/2008*

| | |
|---|---|
| **Oxidizing solids** | Category 3 - (H272) |

### 2.2. Label elements

**Signal word**

Warning

**Hazard statements**
H272 - May intensify fire; oxidizer

**Precautionary Statements - EU (528, 1272/2008)**
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P220 - Keep/Store away from clothing/ combustible materials

### 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

| *Chemical name* | *EC No* | *Weight-%* | *Classification according to Regulation (EC) No. 1272/2008 [CLP]* | *Specific concentration limit (SCL)* | *REACH registration number* | *M-Factor* | *M-Factor (long-term)* |
|---|---|---|---|---|---|---|---|
| Ammonium nitrate; $NH_4NO_3$ (6484-52-2) | 229-347-8 | 40 - 65% | Eye Irrit. 2 (H319) Ox. Sol. 3 (H272) | Eye Irrit. 2 :: C>=80% | 01-2119490981-27 | - | - |
| Potassium nitrate; $KNO_3$ (7757-79-1) | 231-818-8 | 10 - 25% | Ox. Sol. 3 (H272) | - | 01-2119488224-35 | - | - |

**Full text of H- and EUH-phrases: see section 16**

*Acute Toxicity Estimate*
If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 - 4 hour - dust/mist - mg/L |
|---|---|---|---|
| Ammonium nitrate; $NH_4NO_3$ | 2217 | 5000 | 88.8 |
| Potassium nitrate; $KNO_3$ | 3015 | No data available | No data available |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General advice** In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aid measures should be executed by trained personnel only.

**Inhalation** Remove to fresh air. In the case of inhalation of aerosol/mist consult a physician if

| | |
|---|---|
| | necessary. If not breathing, give artificial respiration. If symptoms persist, call a physician. Dusty conditions are unlikely if product is used as intended. However, if prolonged inhalation of dust occurs, remove casualty to fresh air. |
| **Eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| **Skin contact** | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician. |
| **Ingestion** | Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. |

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

| | |
|---|---|
| **Symptoms** | None known. |

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

| | |
|---|---|
| **Note to physicians** | Treat symptomatically. |

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

| | |
|---|---|
| **Suitable Extinguishing Media** | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| **Large Fire** | CAUTION: Use of water spray when fighting fire may be inefficient. |
| **Unsuitable extinguishing media** | Do not scatter spilled material with high pressure water streams. |

### 5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapors.
Thermal decomposition can lead to release of irritating and toxic gases and vapors The product itself does not burn May intensify fire; oxidizer

| | |
|---|---|
| **Hazardous Combustion Products** | Thermal decomposition can lead to release of toxic/corrosive gases and vapors. |

### 5.3. Advice for firefighters

| | |
|---|---|
| **Special protective equipment and precautions for fire-fighters** | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

| | |
|---|---|
| **Personal precautions** | Ensure adequate ventilation. Wear protective gloves/protective clothing and eye/face protection. |
| **Other information** | Refer to protective measures listed in Sections 7 and 8. |
| **For emergency responders** | Use personal protection recommended in Section 8. Prevent entry into waterways, sewers, basements or confined areas. |

### 6.2. Environmental precautions

| | |
|---|---|
| **Environmental precautions** | See Section 12 for additional Ecological Information. Do not flush into surface water or sanitary sewer system. |

### 6.3. Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal. Use up product completely. Packaging material is industrial waste.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling** Ensure adequate ventilation. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes. Avoid generation of dust. In case of insufficient ventilation, wear suitable respiratory equipment.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke.

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

**Storage Conditions** KEEP OUT OF REACH OF CHILDREN AND PETS. Keep container tightly closed in a dry and well-ventilated place. For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used packaging should be closed well.

**Packaging materials** Keep in original container, tightly closed in a safe place.

### 7.3. Specific end use(s)

**Specific use(s)** Fertilizer.

**Exposure scenario** Mixture. Not required.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

**Other Information**

LGK (Germany) TRGS 510 5.1C

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Exposure Limits**

| Chemical name | European Union | Austria | Belgium | Bulgaria | Croatia |
|---|---|---|---|---|---|
| Potassium nitrate; $KNO_3$ | - | - | - | TWA: 5.0 mg/m³ | - |
| Chemical name | Cyprus | Czech Republic | Denmark | Estonia | Finland |
| Ammonium nitrate; $NH_4NO_3$ | - | TWA: 10.0 mg/m³ | - | - | - |
| Chemical name | Italy | Latvia | Lithuania | Luxembourg | Netherlands |
| Potassium nitrate; $KNO_3$ | - | TWA: 5 mg/m³ | TWA: 5 mg/m³ | - | - |

**Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

| | |
|---|---|
| **Derived No Effect Level (DNEL)** | No information available. |
| **Predicted No Effect Concentration (PNEC)** | No information available. |

**8.2. Exposure controls**

| | |
|---|---|
| **Personal protective equipment** | Wear normal, light working clothing |
| **Eye/face protection** | Wear safety glasses with side shields (or goggles). |
| **Hand protection** | Nitrile rubber (0.26 mm). Break through time. > 8 h. |
| **Skin and body protection** | Lightweight protective clothing. |
| **Respiratory protection** | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. |
| **General hygiene considerations** | Handle in accordance with good industrial hygiene and safety practice. |
| **Environmental exposure controls** | Local authorities should be advised if significant spillages cannot be contained. Prevent product from entering drains. |

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Physical state** | Solid |
| **Appearance:** | Powder(s) |
| **Color:** | Off-white |
| **Odor:** | Fertilizer. |

| Property | Values | Remarks • Method |
|---|---|---|
| **Melting Point/Freezing Point:** | No data available | None known |
| **Boiling Point/Range:** | No data available | None known |
| **Flammability (solid, gas):** | No data available | None known |
| **Flammability Limits in Air:** | | None known |
| **Upper Flammability Limit:** | No data available | |
| **Lower Flammability Limit:** | No data available | |
| **Flash Point:** | No data available | None known |
| **Autoignition Temperature:** | No data available | None known |
| **Decomposition Temperature:** | | None known |
| **pH** | 6.0 | @ 1 g/l |
| **pH (as aqueous solution)** | No data available | None known |
| **Kinematic Viscosity:** | No data available | None known |
| **Dynamic Viscosity:** | No data available | None known |
| **Water solubility** | No data available | None known |
| **Solubility(ies)** | No data available | None known |
| **Partition Coefficient:** | No data available | None known |
| **Vapor Pressure:** | No data available | None known |
| **Relative density** | No data available | None known |
| **Bulk density** | No data available | |
| **Density:** | No data available | |
| **Vapour density** | No data available | None known |
| **Particle characteristics** | | |
| **Particle Size** | No data available | |
| **Particle Size Distribution** | No data available | |

**9.2. Other information**

*9.2.1. Information with regard to physical hazard classes*
Not applicable

*9.2.2. Other safety characteristics*
No information available

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

**Reactivity** Not reactive.

**10.2. Chemical stability**

**Stability** Stable under normal conditions.

**Specific methods:**
Sensitivity to mechanical impact Not sensitive.
Sensitivity to static discharge Not sensitive.

**10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions** None under normal processing.

**10.4. Conditions to avoid**

**Conditions to avoid** Keep away from open flames, hot surfaces and sources of ignition.

**10.5. Incompatible materials**

**Incompatible materials** Keep away from catalysts like derivates of hexavalent chromium and metal halides. Keep away from flammable products (fuels) like charcoal, wood, flour, soot etc.

**10.6. Hazardous decomposition products**

Hazardous Decomposition Products None under normal processing. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## SECTION 11: Toxicological information

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Information on likely routes of exposure**

**Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. Inhalation of dust in high concentration may cause irritation of respiratory system.

**Eye contact** Specific test data for the substance or mixture is not available. May cause irritation.

**Skin contact** May cause irritation.

**Ingestion** May cause gastrointestinal discomfort if consumed in large amounts.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available.

**Numerical measures of toxicity**

**Acute toxicity**

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Ammonium nitrate; $NH_4NO_3$ | = 2217 mg/kg ( Rat ) | > 5000 mg/kg | > 88.8 mg/L ( Rat ) 4 h |
| Potassium nitrate; $KNO_3$ | = 3015 mg/kg ( Rat ) | > 2000 mg/kg | > 527 mg/m$^3$ |

**Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:**

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitization** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.
**Reproductive toxicity** Based on available data, the classification criteria are not met.
**STOT - single exposure** Based on available data, the classification criteria are not met.
**STOT - repeated exposure** Based on available data, the classification criteria are not met
**Aspiration hazard** Based on available data, the classification criteria are not met
**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

## SECTION 12: Ecological information

**12.1. Toxicity**

**Ecotoxicity**

**12.2. Persistence and degradability**

**Persistence and Degradability:** No information available.

**12.3. Bioaccumulative potential**

**Bioaccumulation** There is no data for this product.

**Component Information**

| Chemical name | Partition coefficient |
|---|---|
| Ammonium nitrate; $NH_4NO_3$ | -3.1 |

**12.4. Mobility in soil**

**Mobility in soil** no data available.

**Mobility** no data available.

**12.5. Results of PBT and vPvB assessment**

**PBT and vPvB assessment**

| Chemical name | PBT and vPvB assessment |
|---|---|
| Ammonium nitrate; $NH_4NO_3$ | The substance is not PBT / vPvB PBT assessment does not apply Further information relevant for the PBT assessment is necessary |
| Potassium nitrate; $KNO_3$ | The substance is not PBT / vPvB PBT assessment does not apply |

### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

### 12.7. Other adverse effects

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

**Other Information** Use up product completely. Packaging material is industrial waste. If material is uncontaminated, collect and reuse as recommended for product.

## SECTION 14: Transport information

**IMDG**

**14.1**
**UN-No:** 1479
**14.2**
**Proper shipping name:** Oxidizing solid, N.O.S. (Potassium nitrate, Ammonium nitrate)
**14.3**
**Transport hazard class(es)** 5.1
**14.4**
**Packing group:** III
**Limited Quantity** 5 kg
**14.5**
**Marine Pollutant:** Not regulated
**14.6**
**EmS:** F-A / S-Q
**Special Provisions** 223, 274, 900
**14.7**
**Bulk transport according Annex II of MARPOL and IBC Code** No data available

**ADR**

**14.1**
**UN-No:** 1479
**14.2**
**Proper shipping name:** Oxidizing solid, N.O.S. (Potassium nitrate, Ammonium nitrate)
**14.3**
**Transport hazard class(es)** 5.1
**14.4**
**Packing group:** III
**14.5**
**Environmental hazards** Not regulated
**14.6**

| | |
|---|---|
| **Special Provisions** | 274 |
| **Tunnel restriction code** | E |
| **Limited Quantity** | 5 kg |

**IATA**

| | |
|---|---|
| **14.1** | |
| **UN number or ID number** | 1479 |
| **14.2** | |
| **Proper shipping name:** | Oxidizing solid, N.O.S. (Potassium nitrate, Ammonium nitrate) |
| **14.3** | |
| **Transport hazard class(es)** | 5.1 |
| **14.4** | |
| **Packing group** | III |
| **14.5** | |
| **Environmental hazards** | Not regulated |
| **14.6** | |
| **Special Provisions** | A3 |


## SECTION 15: Regulatory information

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

**National regulations**

**Denmark**
**France**

| | |
|---|---|
| ICPE | Classified installation: article 4706 |

**Germany**

| | |
|---|---|
| LGK (Germany) TRGS 510 | 5.1C |
| Gefahrstoffverordnung (Germany) TRGS 511 | C III |
| Water hazard class (WGK) | non-hazardous to water (nwg) |

| Chemical name | German WGK Section |
|---|---|
| Ammonium nitrate; $NH_4NO_3$ | 1 |
| Potassium nitrate; $KNO_3$ | 1 |

**Netherlands**

**European Union**
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Take note of Directive 94/33/EC on the protection of young people at work**
Not to be used by professional users below 18 years of age, see the National Working Environment Authorities Executive Order on young peoples dangerous work.

**Authorizations and/or restrictions on use:**
This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

| Chemical name | Restricted substance per REACH Annex XVII | Substance subject to authorization per REACH Annex XIV |
|---|---|---|
| Ammonium nitrate; $NH_4NO_3$ | 58. | - |

**REGULATION (EU) 2019/1148 on the marketing and use of explosives precursors**

| Chemical name | REGULATION (EU) 2019/1148 on the marketing and use of explosives precursors |
|---|---|
| Ammonium nitrate; $NH_4NO_3$ | Present (16% by weight of N in relation to AN or higher) |
| Potassium nitrate; $KNO_3$ | Present |

Not regulated

**Persistent Organic Pollutants** Not applicable

**Named dangerous substances per Seveso Directive (2012/18/EU)**

| Chemical name | Lower-tier requirements (tons) | Upper-tier requirements (tons) |
|---|---|---|
| Ammonium nitrate; $NH_4NO_3$ | 350 | 2500 |

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009** Not applicable

**EU - Biocides**

**International Inventories:**

**Legend:**
**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
**ENCS** - Japan Existing and New Chemical Substances
**IECSC** - China Inventory of Existing Chemical Substances
**KECL** - Korean Existing and Evaluated Chemical Substances
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances
**AICS** - Australian Inventory of Chemical Substances

**15.2. Chemical safety assessment**

**Chemical Safety Report** Substance(s) usage is covered according to Reach regulation 1907/2006

## SECTION 16: Other information

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Full text of H-Statements referred to under section 3**
H272 - May intensify fire; oxidizer
H319 - Causes serious eye irritation
H302 - Harmful if swallowed
H315 - Causes skin irritation
H360FD - May damage fertility. May damage the unborn child

**Legend**
SVHC: Substances of Very High Concern for Authorization:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

| | | | |
|---|---|---|---|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | * | Skin designation |

**Classification procedure**

• Calculation method
• Expert judgment and weight of evidence determination

| Classification procedure | |
|---|---|
| *Classification according to Regulation (EC) No. 1272/2008 [CLP]* | *Method Used* |
| Acute oral toxicity | *Calculation method* |
| Acute dermal toxicity | *Calculation method* |
| Acute inhalation toxicity - gas | *Calculation method* |
| Acute inhalation toxicity - vapor | *Calculation method* |
| Acute inhalation toxicity - dust/mist | *Calculation method* |
| Skin corrosion/irritation | *Calculation method* |
| Serious eye damage/eye irritation | *Calculation method* |
| Respiratory sensitization | *Calculation method* |
| Skin sensitization | *Calculation method* |
| Mutagenicity | *Calculation method* |
| Carcinogenicity | *Calculation method* |
| Reproductive toxicity | *Calculation method* |
| STOT - single exposure | *Calculation method* |
| STOT - repeated exposure | *Calculation method* |
| Acute aquatic toxicity | *Calculation method* |
| Chronic aquatic toxicity | *Calculation method* |
| Aspiration hazard | *Calculation method* |
| Ozone | *Calculation method* |

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine’s PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

**Prepared by** Regulatory Affairs Department (INFO-MSDS@EVERRIS.COM)

**Revision Date** 16-Jun-2021

**Restrictions on use** Restricted to professional users

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**
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**End of Safety Data Sheet**