

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

Last Revision Date 07-Dec-2021

Version: 1

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

1.1. Product identifier

Product Name Osmocote Pro 18-9-10+2MgO+TE; 12-14 M
Product Code 8756-225HA
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

| | |
|---------------------------------|---------------------|
| Chronic aquatic toxicity | Category 3 - (H412) |
|---------------------------------|---------------------|

2.2. Label elements

Hazard statements

H412 - Harmful to aquatic life with long lasting effects
EUH204 - Contains isocyanates. May produce an allergic reaction

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 ₄ NO ₃ (6484-52-2) | 229-347-8 | 25 - 40% | Eye Irrit. 2 (H319) Ox. Sol. 3 (H272) | Eye Irrit. 2 :: C>=80% | 01-2119490981-27 | - | - |
| Iron sulphate; FeSO ₄ +7H ₂ O (7782-63-0) | 231-753-5 | 1 - 5% | Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) | Skin Irrit. 2 :: C>=25% | 01-2119513203-57 | - | - |
| Copper sulphate anhydrous; CuSO ₄ (7758-98-7) | 231-847-6 | 0.1 - 1% | Skin irrit. 2 (H319) Eye irrit. 2 (H315) Acute Tox. 4 (H302) Aquatic Chronic 1 (H410) | - | 01-2119520566-40 | 10 | 10 |
| Manganese sulphate; MnSO ₄ +1H ₂ O (7785-87-7) | 232-089-9 | 0.1 - 1% | STOT RE 2 (H373) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411) | - | 01-2119456624-35 | - | - |

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 (ATE_{mix}) 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 ₄ NO ₃ | 2217 | 5000 | 88.8 |
| Copper sulphate anhydrous; CuSO ₄ | 300 | 1000 | No data available |
| Manganese sulphate; MnSO ₄ +1H ₂ O | 782 | 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. In case of fire, the product will smoulder even without the presence of external oxygen. In these conditions the product will show self sustaining decomposition. The best method to extinguish the fire is to cool the decomposition front with water. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous Combustion Products Carbon oxides. Phosphorus oxides. Ammonia. Nitrogen oxides (NOx).

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

| Chemical name | European Union | Austria | Belgium | Bulgaria | Croatia |
|---|----------------|--|----------------------------|-----------------------------|---|
| Iron sulphate; FeSO ₄ +7H ₂ O | - | - | TWA: 1 mg/m ³ | TWA: 1.0 mg/m ³ | TWA: 1 mg/m ³ STEL: 2 mg/m ³ |
| Copper sulphate anhydrous; CuSO ₄ | - | STEL 4 mg/m ³ TWA: 1 mg/m ³ | - | TWA: 1.0 mg/m ³ | - |
| Manganese sulphate; MnSO ₄ +1H ₂ O | - | TWA: 0.2 mg/m ³ STEL 1.6 mg/m ³ | TWA: 0.2 mg/m ³ | TWA: 0.05 mg/m ³ | TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³ |
| Chemical name | Cyprus | Czech Republic | Denmark | Estonia | Finland |
| Ammonium nitrate; NH ₄ NO ₃ | - | TWA: 10.0 mg/m ³ | - | - | - |
| Iron sulphate; FeSO ₄ +7H ₂ O | - | - | TWA: 1 mg/m ³ | - | TWA: 1 mg/m ³ |

| | | | | | |
|--|--|---|--|---|---|
| Copper sulphate anhydrous; CuSO ₄ | - | - | - | TWA: 1 mg/m ³ TWA: 0.2 mg/m ³ | TWA: 0.02 mg/m ³ |
| Manganese sulphate; MnSO ₄ +1H ₂ O | TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³ | TWA: 1 mg/m ³ Ceiling: 2 mg/m ³ | TWA: 0.2 mg/m ³ | TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³ | TWA: 0.02 mg/m ³ TWA: 0.2 mg/m ³ |
| Chemical name | France | Germany | Germany MAK | Greece | Hungary |
| Iron sulphate; FeSO ₄ +7H ₂ O | - | - | - | TWA: 1 mg/m ³ STEL: 2 mg/m ³ | - |
| Copper sulphate anhydrous; CuSO ₄ | - | - | TWA: 0.01 mg/m ³ Peak: 0.02 mg/m ³ | - | TWA: 0.1 mg/m ³ STEL: 0.2 mg/m ³ |
| Manganese sulphate; MnSO ₄ +1H ₂ O | - | TWA: 0.2 mg/m ³ TWA: 0.02 mg/m ³ | TWA: 0.2 mg/m ³ TWA: 0.02 mg/m ³ Peak: 1.6 mg/m ³ Peak: 0.16 mg/m ³ | TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³ | TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³ |
| Chemical name | Italy | Latvia | Lithuania | Luxembourg | Netherlands |
| Copper sulphate anhydrous; CuSO ₄ | - | TWA: 0.5 mg/m ³ | TWA: 1 mg/m ³ TWA: 0.2 mg/m ³ | - | TWA: 0.1 mg/m ³ |
| Manganese sulphate; MnSO ₄ +1H ₂ O | TWA: 0.05 mg/m ³ | TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³ | TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³ | - | TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³ |
| Chemical name | Norway | Poland | Portugal | Romania | Slovakia |
| Iron sulphate; FeSO ₄ +7H ₂ O | TWA: 1 mg/m ³ STEL: 3 mg/m ³ | - | TWA: 1 mg/m ³ | - | - |
| Copper sulphate anhydrous; CuSO ₄ | - | TWA: 0.2 mg/m ³ | - | - | TWA: 1 mg/m ³ TWA: 0.2 ppm |
| Manganese sulphate; MnSO ₄ +1H ₂ O | TWA: 0.1 mg/m ³ STEL: 0.1 ppm | TWA: 0.05 mg/m ³ | TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³ | TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³ | TWA: 0.2 mg/m ³ |
| Chemical name | Slovenia | Spain | Sweden | Switzerland | United Kingdom |
| Iron sulphate; FeSO ₄ +7H ₂ O | - | TWA: 1 mg/m ³ | - | TWA: 1 mg/m ³ | TWA: 1 mg/m ³ |
| Copper sulphate anhydrous; CuSO ₄ | - | TWA: 0.1 mg/m ³ | NGV: 0.01 mg/m ³ | TWA: 0.1 mg/m ³ STEL: 0.2 mg/m ³ | - |
| Manganese sulphate; MnSO ₄ +1H ₂ O | TWA: 0.05 mg/m ³ STEL: 0.4 mg/m ³ | TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³ | NGV: 0.2 mg/m ³ NGV: 0.05 mg/m ³ | TWA: 0.5 mg/m ³ | TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³ |

Biological occupational exposure limits

| | | | | | |
|--|----------------|---|----------|--|----------------|
| Chemical name | European Union | Austria | Bulgaria | Croatia | Czech Republic |
| Manganese sulphate; MnSO ₄ +1H ₂ O | - | 20 µg/L (blood - whole blood not provided) (-) | - | - | - |
| Chemical name | Denmark | Finland | France | Germany | Germany MAK |
| Manganese sulphate; MnSO ₄ +1H ₂ O | - | - | - | 15 µg/L - BAR (end of exposure or end of shift) blood 15 µg/L - BAR (for long-term exposures: at the end of the shift after several shifts) blood | - |

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: | Granules |
| Color: | Various |
| 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 | No data available | None known |
| 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 derivatives 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

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 33,783.80 mg/kg

0 % of the mixture consists of ingredient(s) of unknown toxicity

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------|-----------|-------------|-----------------|
|---------------|-----------|-------------|-----------------|

| | | | |
|--|----------------------|-------------------------|-------------------------|
| Ammonium nitrate; NH ₄ NO ₃ | = 2217 mg/kg (Rat) | > 5000 mg/kg | > 88.8 mg/L (Rat) 4 h |
| Iron sulphate; FeSO ₄ +7H ₂ O | = 1520 mg/kg | - | - |
| Copper sulphate anhydrous; CuSO ₄ | = 300 mg/kg (Rat) | = 1000 mg/kg (Rabbit) | - |
| Manganese sulphate; MnSO ₄ +1H ₂ O | = 2125 mg/kg (Rat) | - | > 4.98 mg/L (Rat) 4h |

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 | As a precaution the product should be treated as a sensitizer. |
| 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. The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins. |
| 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 Harmful to aquatic life with long lasting effects.

Unknown aquatic toxicity
Contains 8 % of components with unknown hazards to the aquatic environment.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---|----------------------|--|----------------------------|-------------------------------------|
| Copper sulphate anhydrous; CuSO ₄ | - | LC50: =0.1mg/L (96h, Oncorhynchus mykiss) | - | 0.024: 48 h Daphnia magna mg/L EC50 |

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 ₄ NO 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 ₄ NO ₃ | The substance is not PBT / vPvB PBT assessment does not apply Further information relevant for the PBT assessment is necessary |
| Copper sulphate anhydrous; CuSO ₄ | The substance is not PBT / vPvB PBT assessment does not apply |
| Manganese sulphate; MnSO ₄ +1H ₂ O | 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

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: | 2071 |
| 14.2 Proper shipping name: | AMMONIUM NITRATE BASED FERTILIZER |
| 14.3 Transport hazard class(es) | 9 |
| 14.4 Packing group: | III |
| 14.5 Marine Pollutant: | Not regulated |

| Chemical name | IMDG - Marine Pollutants |
|--|---|
| Copper sulphate anhydrous; CuSO ₄ | IMDG regulated marine pollutant (Listed in the index, listed under Copper sulphate, anhydrous, hydrates and solution) |

| | |
|---|-------------------|
| 14.6 EmS: | F-H / S-Q |
| Special Provisions | 186, 193 |
| 14.7 Bulk transport according Annex II of MARPOL and IBC Code | No data available |

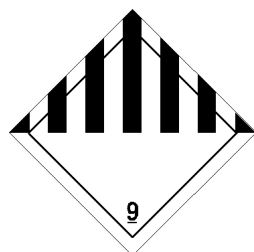
ADR

| | |
|---|---------------|
| 14.1 UN-No: | Not regulated |
| 14.2 Proper shipping name: | Not regulated |
| 14.3 Transport hazard class(es) | Not regulated |

| | |
|--------------------------------------|---------------|
| 14.4 Packing group: | Not regulated |
| 14.5 Environmental hazards | Not regulated |
| 14.6 Special Provisions | None |

IATA

| | |
|---|-----------------------------------|
| 14.1 UN number or ID number | 2071 |
| 14.2 Proper shipping name: | AMMONIUM NITRATE BASED FERTILIZER |
| 14.3 Transport hazard class(es) | 9 |
| 14.4 Packing group | III |
| 14.5 Environmental hazards | Not regulated |
| 14.6 Special Provisions | A89, A90 |



SECTION 15: Regulatory information

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

National regulations

Denmark

France

Germany

Water hazard class (WGK) non-hazardous to water (nwg)

| Chemical name | German WGK Section |
|--|--------------------|
| Ammonium nitrate; NH ₄ NO ₃ | 1 |
| Iron sulphate; FeSO ₄ +7H ₂ O | 3 |
| Copper sulphate anhydrous; CuSO ₄ | 2 |
| Manganese sulphate; MnSO ₄ +1H ₂ O | 2 |

Netherlands

| Chemical name | Netherlands - List of Carcinogens | Netherlands - List of Mutagens | Netherlands - List of Reproductive Toxins |
|--|-----------------------------------|--------------------------------|--|
| Manganese sulphate; MnSO ₄ +1H ₂ O | - | - | Fertility Category 2 Development Category 2 |

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 ₄ NO 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 ₄ NO ₃ | Present (16% by weight of N in relation to AN or higher) |

Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

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 ₄ NO ₃ | 350 | 2500 |

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Plant protection products directive (91/414/EEC)

| Chemical name | Plant protection products directive (91/414/EEC) |
|---|--|
| Iron sulphate; FeSO ₄ ·7H ₂ O | Plant protection agent |

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
- H302 - Harmful if swallowed
- H315 - Causes skin irritation
- H318 - Causes serious eye damage
- H319 - Causes serious eye irritation
- H332 - Harmful if inhaled
- H360 - May damage fertility or the unborn child
- H373 - May cause damage to organs through prolonged or repeated exposure
- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects
- H411 - Toxic to aquatic life with long lasting effects

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 | |
|--|--------------------|
| <i>Classification according to Regulation (EC) No. 1272/2008 [CLP]</i> | <i>Method Used</i> |
| 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

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End of Safety Data Sheet