



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 18-Jul-2023

Supersedes Date: 25-Jul-2021

Revision Number 2.1

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

1.1. Product identifier

Product Name Nova Mag-S
Product Code(s) 5106
REACH registration number 01-2119486789-11

Pure substance/mixture Substance

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

Recommended use Fertilizer
Uses advised against Uses other than those recommended.

1.3. Details of the supplier of the safety data sheet

Supplier
Everris International BV
Nijverheidsweg 1-5; 6422 PD Heerlen
Netherland : +31 (0) 45-5609100; Fax: +31 (0) 45-5609190

1.4. Emergency telephone number

Europe +31-20-5815100 (24 hours a day, 365 days a year)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008
This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Hazard statements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.3. Other hazards

This product contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at concentrations of $\geq 0.1\%$.

Endocrine Disruptor Information No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

| Chemical name | EC No (EU Index No) | CAS No | Weight-% | Index No | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) | REACH registration number |
|---------------------------------|---------------------|------------|----------|----------|---|------------------------------------|----------|----------------------|---------------------------|
| Magnesium sulphate heptahydrate | - | 10034-99-8 | 100 | - | No data available | - | - | - | 01-211948 6789-11 |

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

Acute Toxicity Estimate

No information available

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|-----------------------|--|
| General advice | Take a copy of the Safety Data Sheet when going for medical treatment. Take off contaminated clothing and wash before reuse. |
| Inhalation | Remove 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 | Rinse mouth thoroughly with water Get medical attention if symptoms occur NOTE: Never give an unconscious person anything to drink |

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

| | |
|-----------------|---------------------------|
| Symptoms | No information available. |
|-----------------|---------------------------|

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

| | |
|---------------------------|---|
| Note to physicians | Treat symptomatically and supportively. |
|---------------------------|---|

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|-------------------------------------|---|
| Suitable Extinguishing Media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
|-------------------------------------|---|

5.2. Special hazards arising from the substance or mixture

| | |
|--|--|
| Specific hazards arising from the | May emit toxic and irritating fumes under fire conditions. |
|--|--|

chemical

Hazardous combustion products Magnesium oxide.

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. Cool containers with water spray. Contain runoff to prevent entry into water or drainage systems.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Avoid generation of dust.

6.2. Environmental precautions

Environmental precautions Should not be released into the environment. See Section 12 for additional Ecological Information.

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 Pick up and transfer to properly labeled containers.

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 Handle in accordance with good industrial hygiene and safety practice. Avoid generation of dust.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep away from Incompatible materials.

7.3. Specific end use(s)

Specific use(s) See Section 1.2 for more information.

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

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

| Chemical name | European Union | Austria | Belgium | Bulgaria | Croatia |
|--|----------------|----------------|-------------|----------|----------------|
| Magnesium sulphate heptahydrate 10034-99-8 | - | - | - | - | - |
| Chemical name | Cyprus | Czech Republic | Denmark | Estonia | Finland |
| Magnesium sulphate heptahydrate 10034-99-8 | - | - | - | - | - |
| Chemical name | France | Germany TRGS | Germany DFG | Greece | Hungary |
| Magnesium sulphate heptahydrate 10034-99-8 | - | - | - | - | - |
| Chemical name | Ireland | Italy MDLPS | Italy AIDII | Latvia | Lithuania |
| Magnesium sulphate heptahydrate 10034-99-8 | - | - | - | - | - |
| Chemical name | Luxembourg | Malta | Netherlands | Norway | Poland |
| Magnesium sulphate heptahydrate 10034-99-8 | - | - | - | - | - |
| Chemical name | Portugal | Romania | Slovakia | Slovenia | Spain |
| Magnesium sulphate heptahydrate 10034-99-8 | - | - | - | - | - |
| Chemical name | Sweden | | Switzerland | | United Kingdom |
| Magnesium sulphate heptahydrate 10034-99-8 | - | | - | | - |

Biological occupational exposure limits No relevant information available.

DNELs for workers

| Chemical name | Acute - local effects | Acute - systemic effects | Long term Local effects | Long term systemic effects |
|--|-----------------------|--------------------------|-------------------------|----------------------------|
| Magnesium sulphate heptahydrate 10034-99-8 | - | - | - | - |

DNELs for the general population

| Chemical name | Acute - local effects | Acute - systemic effects | Long term Local effects | Long term systemic effects |
|--|-----------------------|--------------------------|-------------------------|----------------------------|
| Magnesium sulphate heptahydrate 10034-99-8 | - | - | - | - |

Predicted No Effect Concentration (PNEC)

| Chemical name | Water | Sediment | Soil | Impact on Sewage Treatment | Oral |
|--|-------|----------|------|----------------------------|------|
| Magnesium sulphate heptahydrate 10034-99-8 | - | - | - | - | - |

8.2. Exposure controls

| | |
|---------------------------------------|---|
| Engineering controls | Eyewash stations Showers Ventilation systems |
| Personal protective equipment | |
| Eye/face protection | Chemical safety goggles. |
| 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 |
| Hand protection | Protective gloves |
| Skin and body protection | Wear suitable protective clothing. |
| General hygiene considerations | Handle in accordance with good industrial hygiene and safety practice. |

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

| | | |
|---|-------------------------------|--------------------------|
| Physical state | Solid | |
| Color | whitish | |
| Odor | Odorless. | |
| Property | Values | Remarks • Method |
| Melting point / freezing point | 1124 °C | None known |
| Boiling point / boiling range | No data available | None known |
| Flammability (solid, gas) | Not flammable . | None known |
| Flammability Limit in Air | | None known |
| Upper flammability or explosive limits | No data available | |
| Lower flammability or explosive limits | No data available | |
| Flash point | No data available | None known |
| Autoignition temperature | No data available | Not self-ignitable |
| Decomposition temperature | | None known |
| pH | 5.5-7.5 | None known |
| pH (as aqueous solution) | No data available | No information available |
| Kinematic viscosity | No data available | None known |
| Dynamic viscosity | No data available | None known |
| Water solubility | completely soluble | 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 | 1.67 g/cm ³ (20°C) | None known |
| Bulk density | No data available | |
| Liquid Density | No data available | |
| Vapor density | No data available | None known |
| Particle characteristics | | |
| Particle Size | No information available | |
| Particle Size Distribution | No information available | |

9.2. Other information**9.2.1. Information with regard to physical hazard classes**

Explosive properties Product does not present an explosion hazard.
Not flammable
Oxidizing properties Not oxidising

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No reactive hazards known/expected.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products Magnesium oxide.

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

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Numerical measures of toxicity

No information available

Acute toxicity

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------------------------|--------------------------------|--------------------------------|-----------------|
| Magnesium sulphate heptahydrate | >2000 mg/kg (rat, read-across) | >2000 mg/kg (rat, read-across) | - |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

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 The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name | ACGIH | IARC | NTP | European Union |
|---------------------------------|-------|------|-----|----------------|
| Magnesium sulphate heptahydrate | - | - | - | - |

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 Not expected.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No endocrine disrupting properties are known.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---------------------------------|---|--|----------------------------|--|
| Magnesium sulphate heptahydrate | EC50: 2700 mg/L (18d, Algae, read-across) | LC50: 680 mg/L (96h, Pimephales promelas, read-across) | - | EC50: 720 mg/L (48h, daphnia magna, read-across) |

12.2. Persistence and degradability

Persistence and degradability Not relevant for inorganic salts.

12.3. Bioaccumulative potential

Bioaccumulation Bioaccumulation is not likely to occur since this material is highly soluble in water.

| Chemical name | Partition coefficient |
|---------------------------------|-----------------------|
| Magnesium sulphate heptahydrate | - |

12.4. Mobility in soil

Mobility in soil Not expected to adsorb on soil.

12.5. Results of PBT and vPvB assessment

| Chemical name | PBT and vPvB assessment |
|---------------------------------|-------------------------|
| Magnesium sulphate heptahydrate | Not determined |

12.6. Endocrine disrupting properties

Endocrine disrupting properties No endocrine disrupting properties are known.

12.7. Other adverse effects

No information available

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 Dispose of contents/containers in accordance with local regulations.

SECTION 14: Transport information

IATA

| | |
|-----------------------------------|----------------|
| 14.1 UN number or ID number | Not regulated |
| 14.2 UN proper shipping name | Not regulated |
| 14.3 Transport hazard class(es) | Not regulated |
| 14.4 Packing group | Not regulated |
| 14.5 Environmental hazards | Not applicable |
| 14.6 Special precautions for user | |
| Special Provisions | None |

IMDG

| | |
|--|--------------------------|
| 14.1 UN number or ID number | Not regulated |
| 14.2 UN proper shipping name | Not regulated |
| 14.3 Transport hazard class(es) | Not regulated |
| 14.4 Packing group | Not regulated |
| 14.5 Marine pollutant | Not applicable |
| 14.6 Special precautions for user | |
| Special Provisions | None |
| 14.7 Maritime transport in bulk according to IMO instruments | No information available |

ADR/RID/ADN

| | |
|-----------------------------------|----------------|
| 14.1 UN number or ID number | Not regulated |
| 14.2 UN proper shipping name | Not regulated |
| 14.3 Transport hazard class(es) | Not regulated |
| 14.4 Packing group | Not regulated |
| 14.5 Environmental hazards | Not applicable |
| 14.6 Special precautions for user | |
| Special Provisions | None |

SECTION 15: Regulatory information

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

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.

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances 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 |
|--|---|--|
| Magnesium sulphate heptahydrate - 10034-99-8 | - | - |

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

Not applicable

Persistent Organic Pollutants

Not applicable

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

Not applicable

International Inventories

GHS hazardous component CAS registry numbers appearing in section 3 may differ from substances appearing in section 15 due to country or regional chemical inventory coverage requirements, however, remain in compliance with the inventory. Products that are used as food additives are exempt from listing in international chemical inventories.

For further details on the regulatory status for this product in a specific country, please send your inquiry to the following email address: msdsinfo@icl-group.com

| | |
|-------|--------------------|
| TSCA | Listed or exempted |
| DSL | Listed or exempted |
| ENCS | Listed or exempted |
| IECSC | Listed or exempted |
| KECL | Not Listed |
| PICCS | Listed or exempted |
| TCSI | Listed or exempted |
| AIIC | Listed or exempted |

| | |
|--------------|--------------------|
| NZIoC | Not Listed |
| NCI | Listed or exempted |
| NSQ | Listed or exempted |
| TECI | Listed or exempted |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL - Canadian Domestic Substances List
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
TCSI - Taiwan Chemical Substance Inventory
AIRC - Australian Inventory of Industrial Chemicals
NCI - Vietnam National Chemicals Inventory
NSQ - Mexico National Inventory of Chemical Substances
NZIoC - New Zealand Inventory of Chemicals
TECI - Thailand Inventory FDA Existing Chemicals

15.2. Chemical safety assessment**Chemical Safety Report**

A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information**Key or legend to abbreviations and acronyms used in the safety data sheet**

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 |

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

HERA

telephone: +/972-8-6297835
e-mail:msdsinfo@icl-group.com
www.icl-group.com

Revision date 18-Jul-2023

Revision Note The symbol (***) in the margin of this SDS indicates that this line has been revised

Training Advice Adequate training is required before industrial or professional use

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Although the information and recommendations set forth herein (hereinafter 'information') are presented in good faith and believed to be correct as of the date hereof, we make no representations as to the completeness or accuracy thereof. Information is supplied to you upon the condition that the persons receiving the information will make their own determination as to its safety and suitability for their purposes prior to use. In no event will we be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information. In addition, we shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE, ARE MADE HEREUNDER WITH RESPECT TO THIS INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS.

End of Safety Data Sheet