Safety Data Sheet
according to GHS version 7

Printing date 06.04.2023 *Version number 1* *Revision: 06.04.2023*

*
1 Identification

· **Product identifier**

· **Trade name: Magnesium nitrate granular**

· **Article number:** FSWS122
· **CAS Number:**
13449-18-9
· **Relevant identified uses of the substance or mixture and uses advised against**
For use in the agricultural sector.
· **Technical function** Fertilizers (soil amendments)
· **Application of the substance / the mixture** Agricultural chemicals
· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Company: Omnia Specialities Australia Pty Ltd
Address: Tramway Road
MORWELL VIC 3840
Telephone Number: +61-3 5133 9118
Facsimile Number: +61-3 5133 9114

· **Further information obtainable from:** info@omnia.net.au
· **Emergency telephone number:**
ISS First Response
+61 3 8796 3688

2 Hazard(s) Identification

· **Classification of the substance or mixture**
The substance is not classified, according to the Globally Harmonised System (GHS).

· **Label elements**
· **GHS label elements** Void
· **Hazard pictograms** Void
· **Signal word** Void
· **Hazard statements** Void
· **Other hazards** Keep out of reach of children.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

*
3 Composition and Information on Ingredients

· **Chemical characterisation: Substances**
· **CAS No. Description**
13449-18-9 Magnesium nitrate granular

*
4 First Aid Measures

· **Description of first aid measures**
· **After inhalation:**
Keep patient warm and at rest even though no symptoms may be evident.
Give Oxygen, especially if the person is blue in the face.
Apply artificial respiration if breathing has stopped.
Obtain medical attention immediately.

(Contd. on page 2)

Safety Data Sheet
according to GHS version 7

Printing date 06.04.2023 Version number 1 Revision: 06.04.2023

Trade name: Magnesium nitrate granular

(Contd. of page 1)

· ***After skin contact:***
Wash thoroughly with water and soap. Wash clothes before re-use. Do not clean dust from clothes with air hoze or oxygen.
· ***After eye contact:*** *Rinse opened eye for several minutes under running water. Then consult a doctor.*
· ***After swallowing:***
Do not induce vomiting. If the person is conscious, wash out mouth and give 2 to 3 glasses water or milk to drink. Immediately obtain medical attention.
· ***Information for doctor:***
Show the SDS to the doctor/physician.
Monitor and treat pulmonary edema
Monitor vital signs, blood pressure, respiration and onset of cyanosis. Administer oxygen if there are clinical signs of methemoglobinaemia.
· ***Most important symptoms and effects, both acute and delayed***
Ingestion may cause gastro-intestinal disturbances and in extreme cases (particularly in very young), formation of methaemoglobin (blue baby syndrome) and cyanosis (indicated by blueness around the mouth) may occur.
Inhalation of dusts or mist may cause irritation.
Inhalation of decomposition gasses, can cause irritation and corrosive affects of the respiratory system and may lead to oedema. Lung effects may be delayed.
· ***Hazards***
Danger of pulmonary oedema.
Danger of convulsion.
· ***Indication of any immediate medical attention and special treatment needed***
After supplying first aid, when medical attention is sought, show the SDS to the docter/physician.
Following exposure to decomposition fumes, the patient should be kept under medical review for at least 48 hours as pulmonary oedema may develop.

*
5 Fire Fighting Measures

· ***Extinguishing media***
· ***Suitable extinguishing agents:*** *Water*
· ***Special hazards arising from the substance or mixture***
In case of fire or during heating, poisonous gases are produced.
· ***Advice for firefighters***
For a large fire, flood area with water from a distance. Isolate for 800 m (half a mile) and consider evacuation for 800 m (half a mile) in all directions.
Use unmanned hoze holders or monitor nozzles, if this is impossible, withdraw from area and let fire burn.
Do not move cargo or vehicle if cargo has been exposed to heat
Cool containers with flooding quantities of heat untill well after fire is out
Always stay away from tanks involved in fire.
Fire or Explosion: These substances will accelerate burning when involved in a fire. Some may decompose explosively when heated or involved in a fire. May explode from heat or contamination. Some will react explosively with hydrocarbons (fuels). May ignite combustibles (wood, paper, oil, clothing, etc.). Containers may explode when heated. Runoff may create fire or explosion hazard.
May support fire in absence of air
· ***Protective equipment:*** *Wear full protective gear and self-contained respiratory protective device.*

*
6 Accidental Release Measures

· ***Personal precautions, protective equipment and emergency procedures***
Wear protective gear. Do not inhale the material or its combustion products. Go against the wind and keep out of low areas. Evacuate personnel to safe area. Ensure adequate ventilation.
· ***Environmental precautions:***
Fertilizer may dissolve in water. Large quantities can kill vegetation and aquatic organisms.
Do not allow to enter sewers, surface or ground water. Should not be released into environment.
If released into environment, inform appropriate authorities.

(Contd. on page 3)

Safety Data Sheet
according to GHS version 7

Printing date 06.04.2023 *Version number 1* *Revision: 06.04.2023*

Trade name: Magnesium nitrate granular

(Contd. of page 2)

· ***Methods and material for containment and cleaning up:***
Ensure adequate ventilation.
Pick up mechanically, sweep and shovel into containers. Re-use if not contaminated. If contaminated, store in suitable containers for disposal.
· ***Reference to other sections***
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and Storage

· ***Handling:***
· ***Precautions for safe handling***
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of dust.
Avoid contact with skin, eyes and clothing.
· ***Information about fire - and explosion protection:***
Keep away from open flames, electrical equipment, heat sources, sparks and other ignition sources. Do not smoke.
Do not pressurize, cut, weld, braze, soldier, drill or grind equipment or empty containers that may contain residue or expose them to heat, flames, sparks or other sources of ignition - this may result in the release of poisonous gas or explosion.
Do not cut, weld, braze, soldier, drill or grind anything near this material - this may result in the release of poisonous gas, fire or explosion.
Electrical equipment, cables and wiring must be located outside the fertilizer pile.

· ***Conditions for safe storage, including any incompatibilities***
· ***Storage:***
· ***Requirements to be met by storerooms and receptacles:***
Do not store on wood.
Ensure sufficient ventilation and that space is cool and dry. Ensure eyewash station and safety showers is near workstations. Ensure sufficient fire fighting water is available. Ensure containers stay closed.
Steel, aluminum and zinc will suffer rapid corrosion and should be protected by several layers of paint. Fertilizer may attack concrete and corrode the steel reinforcement. Concrete should be protected by filled coal tar pitch or epoxy based plastic
Avoid exposure to atmosphere to prevent moisture pick-up.
Keep at temperatures not exceeding 32 °C. Restrict stack size and allow at least 1m distance around stacks of bagged products.
· ***Information about storage in one common storage facility:***
Store away from acids, alkalies, water and foodstuffs.
· ***Further information about storage conditions:*** *Keep container tightly sealed in a dry well-ventilated place.*
· ***Specific end use(s)*** *For use in agriculture.*

8 Exposure controls and personal protection

· ***Additional information about design of technical facilities:***
Ensure eyewash stations and safety showers are close to the workstation location.

· ***Control parameters***
· ***Ingredients with limit values that require monitoring at the workplace:*** *Not required.*
· ***Additional information:*** *The lists valid during the making were used as basis.*

· ***Exposure controls***
· ***Personal protective equipment:***
· ***General protective and hygienic measures:***
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing

(Contd. on page 4)

Safety Data Sheet
according to GHS version 7

Printing date 06.04.2023 Version number 1 Revision: 06.04.2023

Trade name: Magnesium nitrate granular

(Contd. of page 3)

· **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
· **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye protection:** Wear safety glasses
· **Body protection:** Protective work clothing

*
9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Granulate
Colour:	White
· **Odour:**	Odourless
· **Odour threshold:**	Not determined.
· **pH-value:**	6
· **Change in condition**	
Melting point/freezing point:	89 °C
Initial boiling point and boiling range:	330 °C
· **Flash point:**	Not applicable.
· **Flammability (solid, gas):**	Product is not flammable.
· **Decomposition temperature:**	Not determined.
· **Auto-ignition temperature:**	Not determined.
· **Explosive properties:**	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapour pressure:**	Not applicable.
· **Density at 20 °C:**	1.46 g/cm³
· **Relative density**	Not determined.
· **Vapour density**	Not applicable.
· **Evaporation rate**	Not applicable.
· **Solubility in / Miscibility with water at 20 °C:**	712 g/l
· **Partition coefficient: n-octanol/water:**	Not determined.

(Contd. on page 5)

Safety Data Sheet
according to GHS version 7

Printing date 06.04.2023 Version number 1 Revision: 06.04.2023

Trade name: Magnesium nitrate granular

(Contd. of page 4)

· **Viscosity:**	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· **Other information**	No further relevant information available.

*
10 Stability and Reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** May decompose on heating.
· **Possibility of hazardous reactions**
Reacts with reducing agents.
Reacts with flammable substances.
Contact with acids or alkali may release irritant gasses.
· **Conditions to avoid** Incompatibles and extreme temperatures.
· **Incompatible materials:**
Organic material
Acids and alkalies. Flammable substances. Foodstuffs.

*
11 Toxicological Information

· **Information on toxicological effects**
· **Acute toxicity**

· **LD/LC50 values relevant for classification:**		
Oral	LD50	5,440 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rat)

· **Primary irritant effect:**
· **Serious eye damage/irritation** No irritating effect.
· **Respiratory or skin sensitisation** No sensitising effects known.
· **Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.
The substance is not subject to classification according to the latest version of the EU lists.

12 Ecological Information

· **Toxicity**
· **Aquatic toxicity:**
If large amounts enters water systems, eutrophication may result and aquatic organisms may be harmed.
· **Persistence and degradability** Freely dissociates. All components may become part of natural mineral cycles.
· **Behaviour in environmental systems:**
· **Bioaccumulative potential**
May accumulate in soils and water bodies and possibly in life forms.
May contribute to the eutrophication of water bodies.
May accumulate in soils and water bodies and possibly in life forms.
· **Mobility in soil** Very mobile in soil.
· **Additional ecological information:**
· **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.

(Contd. on page 6)

Safety Data Sheet
according to GHS version 7

Printing date 06.04.2023 Version number 1 Revision: 06.04.2023

Trade name: Magnesium nitrate granular

(Contd. of page 5)

· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation**
If fertilizer is not contaminated, recycle. In case fertilizer is contaiminated, discuss options with supplier or experts.

· **Uncleaned packaging:**
· **Recommendation:**
Do not pressurize, cut, weld, braze, solder, drill or grind equipment or empty containers or expose them to heat, flames, sparks or other sources of ignition - this may result in the release of poisonous gas or explosion.
· **Recommended cleansing agents:** Water and if required, cleansing agents.

*

14 Transport information

· **UN-Number** · **ADG, ADN, IMDG, IATA**	Void
· **UN proper shipping name** · **ADG, ADN, IMDG, IATA**	Void
· **Transport hazard class(es)** · **ADG, ADN, IMDG, IATA** · **Class**	Void
· **Packing group** · **ADG, IMDG, IATA**	Void
· **Environmental hazards:**	Not applicable.
· **Special precautions for user** · **ERG No.**	Not applicable. None
· **Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable.
· **UN "Model Regulation":**	Void

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
· **Australian Inventory of Industrial Chemicals** Substance is not listed.
· **Standard for the Uniform Scheduling of Medicines and Poisons** Substance is not listed.
· **Australia: Priority Existing Chemicals** Substance is not listed.
· **GHS label elements** Void
· **Hazard pictograms** Void
· **Signal word** Void
· **Hazard statements** Void
· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

(Contd. on page 7)

Safety Data Sheet
according to GHS version 7

Printing date 06.04.2023 *Version number 1* *Revision: 06.04.2023*

Trade name: Magnesium nitrate granular

(Contd. of page 6)

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· ***Contact:***
· ***Abbreviations and acronyms:***
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
· **** Data compared to the previous version altered.***