

Identification of Substance & Company

Product

Product name Magnesium sulphate

HSNO approval Not applicable – non hazardous

Approval description Non hazardous

UN number NA
DG class NA
Proper Shipping Name NA
Packaging group NA
Hazchem code NA
Uses Fertiliser

Company Details

Company EGMONT COMMERCIAL

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2. Hazard Identification

Approval

This product is not considered hazardous under the Hazardous Substances and New Organisms Act (HSNO) and GHS 7, according to the criteria in the Hazardous substances (Hazard Classification) Notice 2020.

GHS 7 Classes Hazard Statements

none

SYMBOLS

None

Other Classifications

There are no other classifications that are known to apply.

Precautionary Statements

none

3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
Magnesium sulphate	10034-99-8	100%

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

4. First Aid

General Information

You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

Recommended first aid

Ready access to running water is recommended.

facilities

Page 1 of 6

SDS updated: 25 August 2025 Product Name: Magnesium sulphate



Exposure

Do NOT induce vomiting. Give a glass of water to drink. Contact a doctor if **Swallowed**

experiencing any symptoms.

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Apply continuous irrigation with water for at least 15 minutes

holding eyelids apart. If eye irritation persists: Get medical advice.

This product is non-irritating to skin. No further measures should be required. Skin contact

Inhaled IF INHALED: Dusts may cause irritation. If experiencing irritation, remove to fresh air.

Drink water to clear throat. If shortness of breath or wheezing develops, seek medical

attention. Call a POISON CENTER or doctor/physician if you feel unwell.

Advice to Doctor

Treat symptomatically

Firefighting Measures

Fire and explosion hazards: Suitable extinguishing

substances:

Unsuitable extinguishing

substances:

Products of combustion:

Protective equipment:

Hazchem code:

There are no specific risks for fire/explosion for this chemical. It is non-flammable. Carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or

alcohol resistant foam.

Unknown.

Sulphur oxides, magnesium oxides. May form toxic mixtures in air and may accumulate

in sumps, pits and other low-lying spaces, forming potentially explosive mixtures.

Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat

and eye protection.

NA

Accidental Release Measures

Containment

This product is not considered flammable or ecotoxic. **Emergency procedures**

The container size will general prevent a major spill. If a large spill (e.g. >100kg) does occur: Wear protective equipment to prevent skin, eye and respiratory exposure to dusts. Clear area of any unprotected personnel. Avoid creating dust. If appropriate, use a gentle

water spray to wet material to minimise dust generation.

If possible to wet the dust, wet and sweep up the solid. Dry sweeping should not be Clean-up method

attempted. Vaccuming with an industrial vacuum outfitted with a high efficiency

particulate filter is recommended.

Disposal Collect recoverable material into labelled containers for recycling or salvage. This

material may be suitable for approved landfill. Dispose of only in accord with all

regulations. See section 14.

Precautions Wear protective equipment to prevent eye contamination and the inhalation of dusts.

Work up wind or increase ventilation.

Storage & Handling

Storage Avoid storage near food and beverages.

Avoid contact with incompatible substances as listed in Section 10. Store in a dry place. Handling

Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements. Avoid skin and eye

contact and inhalation of dusts.

Exposure Controls / Personal Protective Equipment

Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m³ for respirable particulates and 10mg/m³ for inhalable particulates when limits have not otherwise been established.

NZ Workplace Ingredient **WES-TWA** WFS-STFI **Exposure Stds** Magnesium sulphate data unavailable data unavailable

Page 2 of 6

SDS updated: 25 August 2025 Product Name: Magnesium sulphate



Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

Personal Protective Equipment

Eyes Avoid contact with eyes. Use safety glasses or goggles if irritant levels of dusts are

present.

Skin Avoid repeated or prolonged skin contact. Wear overalls, rubber boots and impervious

gloves if concerned about irritation or dryness of the skin.

A respirator when airborne concentrations approach the WES (section 8). Use a Respiratory

respirator with a dust filter. If using a respirator, ensure that the cartridges are correct for

the potential air contamination and are in good working order.

WES Additional Information

Not applicable

Physical & Chemical Properties

Appearance white powder Odour odourless **Odour threshold** no data 6-8 Freezing / melting point no data **Boiling point** no data Flash point no data **Flammability** no data **Upper & lower flammable limits** no data Vapour pressure no data no data Vapour density Specific gravity / density no data Solubility soluble in water

Partition Coefficient: no data

Auto-ignition temperature not self-igniting **Decomposition temperature** no data Viscosity no data Particle characteristics no data

Stability & Reactivity

Stability Stable

Conditions to be avoided Containers should be kept closed in order to avoid contamination. Avoid creation of dust

during handling.

Incompatible groups none known

Substance Specific Acids, strong oxidising agents.

Incompatibility

Hazardous decomposition Fire or heat will produce irritating and/or toxic fumes, including oxides sulphur,

products magnesium oxide.

Hazardous reactions none known

Toxicological Information

Summary

IF SWALLOWED: No adverse effects expected.

IF IN EYES: Dust may be irritating to eyes.

IF ON SKIN: This product is not absorbed through the skin. Mixture may dry out the skin.

IF INHALED: Dusts may cause upper respiratory tract irritation, resulting in coughing and sneezing.

CHRONIC EFFECTS: Long term exposure to high levels of fine nuisance dust may cause injury to lungs and the respiratory system.

Page 3 of 6

SDS updated: 25 August 2025 Product Name: Magnesium sulphate



Supporting Data

Acute Oral Using LD₅₀'s for ingredients, the calculated LD₅₀ (oral, rat) for the mixture is >5,000

mg/kg.

Dermal No evidence of dermal toxicity.

InhaledThe substance is not considered acutely toxic if inhaled, however there may be irritation

of the respiratory tract if dust is inhaled.

Eye The mixture is not considered to be an eye irritant.

Skin The mixture is not considered to be a skin irritant.

Chronic Sensitisation No ingredient present at concentrations > 0.1% is considered a sensitizer.

Mutagenicity No ingredient present at concentrations > 0.1% is considered a mutagen.

Carcinogenicity No ingredient >0.1% is considered a carcinogen.

Reproductive / No ingredient present at concentrations > 0.1% is considered a reproductive or

Developmental developmental toxicant or have any effects on or via lactation. **Systemic** No ingredient present >1% is considered a systemic toxicant.

Aggravation of existing conditions

12. Ecological Data

Summary

This product is not considered ecotoxic.

Supporting Data

Aquatic These products are not considered to be toxic in the aqueous environment.

Bioaccumulation No data
Degradability No data

Soil These products are not considered to be toxic in the soil environment.

Terrestrial vertebrate These products are not considered ecotoxic towards terrestrial vertebrates.

Terrestrial invertebrate No evidence of toxicity towards terrestrial invertebrates.

Biocidal no da

Environmental effect levels No EELs are available for this mixture or ingredients

13. Disposal Considerations

Restrictions There are no product-specific restrictions, however, local council and resource consent

conditions may apply, including requirements of trade waste consents.

Disposal methodDisposal of this product must comply with the requirements of the Resource Management

Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore rendered non-hazardous before discharge to the

environment.

Contaminated packaging Preferably re-cycle container, otherwise send to landfill or similar.

14. Transport Information

Land Transport Rule: Dangerous Goods 2005 - NZS 5433:2007

There are no specific restrictions for this product (not a dangerous good).

UN number: NA Proper shipping name: NA Class(es) NA Packing group: NA Precautions: NA Hazchem code: NA

IMDG

UN number:NAProper shipping name:NAClass(es)NAPacking group:NAPrecautions:NAEmSNA

IATA

UN number:NAProper shipping name:NAClass(es)NAPacking group:NAPrecautions:NAERG GuideNA

Page 4 of 6 SDS updated: 25 August 2025

SDS updated: 25 August 2025 Product Name: Magnesium sulphate



15. Regulatory Information

This product has been assessed as non hazardous under the Hazardous Substances and New Organisms Act (HSNO).

Specific Controls

Key requirements are:

SDS Not required (non hazardous), but best practice to have the SDS available.

Inventory An inventory of all hazardous substances must be prepared and maintained.

Packaging All hazardous substances should be appropriately packaged including substances

that have been decanted, transferred or manufactured for own use or have been

supplied

Labelling Must comply with the Hazardous Substances (Labelling) Notice 2017.

Emergency plan Not required. Certified handler Not required. Not required. Tracking Bunding & secondary containment Not required. Signage Not required. Location compliance certificate Not required. Flammable zone Not required. Fire extinguisher Not required.

Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

16. Other Information

Abbreviations

CAS Number Unique Chemical Abstracts Service Registry Number Unique Chemical Abstracts Service Registry Number

EC₅₀ Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test

population (e.g. daphnia, fish species)

EPA Environmental Protection Authority (New Zealand)

GHS Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised

edition, 2017, published by the United Nations.

HAZCHEM Code Emergency action code of numbers and letters that provide information to emergency

services, especially fire fighters

HSNO Hazardous Substances and New Organisms (Act and Regulations)

International Agency for Research on Cancer

LEL Lower Explosive Limit

LD₅₀ Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).

Lethal Concentration 50% − concentration in air which is fatal to 50% of a test population

(usually rats)

NZIoC New Zealand Inventory of Chemicals

STEL Short Term Exposure Limit - The maximum airborne concentration of a chemical or

biological agent to which a worker may be exposed in any 15 minute period, provided the

TWA is not exceeded

STOT RESystem Target Organ Toxicity – Repeated Exposure
STOT SE
System Target Organ Toxicity – Single Exposure

TWA Time Weighted Average – generally referred to WES averaged over typical work day

(usually 8 hours)

UELUpper Explosive LimitUN NumberUnited Nations Number

WES Workplace Exposure Standard - The airborne concentration of a biological or chemical

agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring

using procedures that gather air samples in the worker's breathing zone.

Page 5 of 6

SDS updated: 25 August 2025 Product Name: Magnesium sulphate



References

Unless otherwise stated comes from the EPA HSNO chemical classification information

database (CCID).

Controls EPA notices, www.epa.govt.nz, Health and Safety at Work (Hazardous Substances)

Regulations 2017, www.legislation.govt.nz

WES The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available

on their web site – www.worksafe.govt.nz.

Other References: EU ECHA, ingredients SDS's, ChemIDplus

Review

Date Reason for review

January 2020 Not applicable – new SDS

August 2025 update

Expiry date

25 August 2030

Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely GHS 7 classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: +64 21 1040951.



Page 6 of 6 SDS updated: 25 August 2025