

. Identification of Substance & Company

Product

Product name Ammonium Sulphate

Other names GAS, SAS, Ammonium sulfate, Sulphuric acid diammonium salt, Sulphate

of ammonia

HSNO approval HSR002571

Approval description Fertilisers (Subsidiary Hazard) Group Standard 2020

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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Email sales@egmontnz.com

Emergency Telephone Number: 0800 764 766 (POISON CENTRE)

2. Hazard Identification

Approval

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002571, Fertilisers (Subsidiary Hazard) Group Standard 2020). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Hazard Classification) Notice 2020.

Classes Hazard Statements

Acute oral toxicity Category 4 H302 - Harmful if swallowed.

SYMBOLS

WARNING



HSNO Classes (valid until April 2021) Hazard Statements

6.1D (oral)

H302 - Harmful if swallowed.

9.1D

H402 - Harmful to aquatic life.

Precautionary Statements

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.

P330 - Rinse mouth.

P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.



Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
Ammonium sulphate	7783-20-2	100%

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

First Aid

General Information

If medical advice is needed, have product container or label at hand. 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

facilities

Ready access to running water is required. Accessible eyewash is required.

Exposure

Swallowed

IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse

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

experiencing any symptoms.

Eye contact

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

present and easy to do. Continue rinsing. If eye irritation occurs: Get medical

advice/attention.

Skin contact Inhaled

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

Generally, inhalation of dusts is unlikely to result in adverse health effects. If coughing, dizziness or shortness of breath is experienced, remove the patient to fresh air immediately. If patient is unconscious, place in the recovery position (on the side) for

transport and contact a doctor.

Advice to Doctor

Treat symptomatically

Firefighting Measures

Fire and explosion hazards: Suitable extinguishing

substances:

Unsuitable extinguishing

substances:

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.

Products of combustion:

Ammonia, nitrogen oxides, oxides of sulphur, carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive

mixtures.

Protective equipment:

No special measures are required.

Hazchem code: NA

6. **Accidental Release Measures**

Containment If greater than 1000kg is stored, secondary containment and emergency plans to manage

any potential spills must be in place. In all cases design storage to prevent discharge to

storm water.

Emergency procedures If a significant spill occurs:

Stop leak if safe/necessary; Isolate area. Collect spill – see below; Transfer to container

for disposal. Dispose of according to guidelines below (Section 13).

Clean-up method Use absorbent (soil, sand or other inert material). Rags are not recommended for the

clean-up of spills, as they may create fire or environmental hazard. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or

waterways has occurred advise local emergency services.

Mop up and collect recoverable material into labelled containers for recycling or salvage. Disposal

Recycle containers wherever possible. This material may be suitable for approved

landfill. Dispose of only in accord with all regulations.

Precautions No special protective clothing is normally necessary.



7. Storage & Handling

Storage Avoid storage of harmful substances with food. Store out of reach of children.

Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed in

Section 10.

Handling Avoid generating dusts. Keep exposure to a minimum, and minimise the quantities kept

in work areas. See section 8 with regard to personal protective equipment requirements.

8. 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* WES-STEL

Exposure Stds Not listed

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

General Personal Protective Equipment (PPE) should not be used as the primary means of

exposure protection, except in the event of an accident or emergency situation or where

all other means of protection have proven to inadequate.

Clean PPE after use, or dispose of as appropriate. Store PPE for re-use in a clean place. Regular training on the correct use of PPE should be provided. In particular the correct fitting and use of respirators and where applicable the cleaning of respirators should be

undertaken.

Eyes Protective eyewear is not normally necessary when using this product. However, it

always prudent to use protective eyewear if splashes are likely.

Skin Protective gloves and clothing are not normally necessary. However, it is prudent to

wear gloves when handling chemicals in bulk or for an extended period of time.

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

must have filters appropriate to the duty and comply with AS/NZS1716 and selected, used and maintained in accordance with AS/NS 1715. Use a respiratory with a particulate filter. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order. Fit testing and clear guidelines and training

for use and maintenance of PPE are necessary.

WES Additional Information

Not applicable

9. Physical & Chemical Properties

Appearance white to grey/brown granules

Odour odourless

pH 5-6 (50g/L in water at 20°C)

Vapour pressureno dataViscosityno dataBoiling pointno dataVolatile materialsno data

Freezing / melting point 280°C (decomposes) Solubility 280°C (decomposes)

Specific gravity / density specifi gravity: 1.77g/cm³, bulk density: 1050kg/m³

Flash point no data
Danger of explosion not explosive
Auto-ignition temperature not self-igniting
Upper & lower flammable limits
Corrosiveness non corrosive

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10. Stability & Reactivity

Stability Stable

Conditions to be avoided Containers should be kept closed in order to avoid contamination. Keep from extreme

heat and open flames. Moisture.

Incompatible groups Oxidisers.
Substance Specific none known

Incompatibility

Hazardous decomposition

products

Ammonia, nitrogen oxides and sulphur oxides.

Hazardous reactions none known

11. Toxicological Information

Summary

IF SWALLOWED: Ingestion of large quantities may lead to nausea, vomiting, diarrhoea, thirst.

IF IN EYES: direct contact may result in tearing, pain, redness and conjunctivitis. IF ON SKIN: prolonged and repeated skin exposure may result in irritation, skin rush.

IF INHALED: dust may be slightly irritating. Exposure may cause coughing and irritate mucous membranes.

CHRONIC TOXICITY: not known.

Supporting Data

Acute Oral LD₅₀'s for Ammonium sulphate 640 mg/kg (mouse), 2840mg/kg (rat).

Dermal No data available. Inhaled No data available.

Eye Ammonium sulphate is not considered to be an eye irritant.

Skin Ammonium sulphate is not considered to be a skin irritant.

Sensitisation Ammonium sulphate is not considered a sensitizer.

Mutagenicity

Carcinogenicity

Ammonium sulphate is not considered a mutagen.

Ammonium sulphate is not considered a carcinogen.

Reproductive / Ammonium sulphate is not considered a reproductive or developmental toxicant or have

Developmental any effects on or via lactation.

Systemic Ammonium sulphate is not considered a target organ toxicant.

Aggravation of None known.

existing conditions

12. Ecological Data

Summary

Chronic

Ammonium sulphate is considered harmful towards aquatic organisms and terrestial vertebrates.

Supporting Data

Aquatic EC₅₀'s for Ammonium sulphate 48 mg/l (96hr, Catla catla), 81 - 130 mg/l (96hr, Crangon

crangon (Crustacea)).

Bioaccumulation No data
Degradability No data

Soil No evidence for soil toxicity.

Terrestrial vertebrate Ammonium sulphate LD₅₀: 640 mg/kg (mouse), 2840mg/kg (rat).

Terrestrial invertebrate No evidence of toxicity towards terrestrial invertebrates.

Biocidal no data

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 method

Disposal of this product must comply with the Hazardous Substances (Disposal) Notice

2017 and 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 Disposal of contaminated packaging must comply with the Hazardous Substances

(Disposal) Notice 2017 clause 12. Ensure that the package is rendered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material of the package. If possible

reuse or recycle packaging.



14. Transport Information

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

UN number:NAProper shipping name:NAClass(es)NAPacking group:NAPrecautions:NAHazchem code:NA

15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002571, Fertilisers (Subsidiary Hazard) Group Standard 2020. All ingredients appear on the New Zealand Inventory of Chemicals NZIoC.

Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)

Key workplace requirements are:

SDS To be available within 10 minutes in workplaces storing any quantity.

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 Required if > 1000kg is stored.

Certified handler Not required.

Tracking Not required.

Bunding & secondary containment Not required (non pooling substance)
Signage Required if > 10000kg is stored.

Location compliance certificate Not required. Flammable zone Not required. Fire extinguisher Not required.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

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

Approval Code Approval HSR002571, Fertilisers (Subsidiary Hazard) Group Standard 2020 Controls,

EPA. www.epa.govt.nz

CAS 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)

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)

IARC 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

MSDS (SDS)

Material Safety Data Sheet (or Safety Data Sheet)

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

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

(usually 8 hours)

UEL Upper Explosive Limit
UN Number United Nations Number

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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.

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

DateReason for reviewJanuary 2020Not applicable – new SDS

November 2021 HSNO to GHS, controls, Approval number

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 HSNO and GHS 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 9 940 30 80.

