

SAFETY DATA SHEET

Product Name: Organic Super Sulphur


Issue Date: 16/08/2017

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1. PRODUCT AND COMPANY INFORMATION

Product Name:	Organic Super Sulphur
Relevant identified uses:	Fungicide
Molecular Formula:	Mixture
Supplier:	Kiwicare Corporation Limited and BASF New Zealand Limited
Street Address:	225 Maces Road, Bromley, Christchurch, 8062 New Zealand,
Postal Address:	P.O Box 15050, Aranui, Christchurch, 8643 New Zealand
Telephone	+64 3 389 0778
Email:	info@kiwicare.co.nz and reception@basf-nz.co.nz
Website:	www.kiwicare.co.nz and reception@basf-nz.co.nz
Emergency Contact Numbers:	0800 764 766 (0800 POISON)
National Poisons Centre:	0800 764 766 (0800 POISON)

2. HAZARDS IDENTIFICATION

HSNO Hazard Classification	Transport of Dangerous Goods Pictogram	GHS Pictogram	Signal word	Hazard statement code	Precautionary statement codes			
					Prevention	Response	Storage	Disposal
6.4A ¹	Not applicable for the UN RTDG Model Regulations		Warning	H319	P103 ^b P264 P280	P305 + P351 + P338 P337 + P313	No storage statements	P501
9.1D	Not applicable for the UN RTDG Model Regulations	No Pictogram	No Signal Word	H401 ¹ /H402 ² / H413 ^p	P103 ^b P273	No response statements	No storage statements	P501

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Dangerous Goods:	Not classified as a DG.
Packaging Group:	None
Signal word:	Warning
Hazardous Substance (HSNO) Codes:	6.4A (Eye irritant) 9.1D (Slightly harmful in the aquatic environment)
Hazard Statement:	H319: Causes serious eye irritation. H413: Slightly harmful to aquatic life with long lasting effects.
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. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection. P337+P313: If eye irritation persists: Get medical advice/attention. P305+351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501: In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Recommended Use: Water dispersible granules fungicide

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Appearance: Brownish granules

Ingredients

Ingredients	CAS #	Content %
Sulfur	7704-34-9	80 %
Other ingredients	NA (Mixture)	to 100 %

4. FIRST AID MEASURES

- 4.1 General information: In case of accident, or if you feel unwell, seek medical advice (have product label at hand).
- Ingestion: Rinse mouth and then drink plenty of water. Seek medical advice or call NZ Poisons Centre on 0800 764 766. If medical advice is needed have product label at hand.
- Eye Contact: May cause eye irritancy. Rinse opened eye for 15 minutes under running water. If irritation persists seek medical advice and have product label at hand.
- Skin Contact: Take off all contaminated clothing. Rinse skin with copious amounts of water and wash with soap and water. If you feel unwell seek immediate medical advice.
- Inhalation: If symptoms develop move the exposed person to fresh air. Keep the patient calm. If breathing problems develop, seek medical advice and have product label at hand.
- Advice for Medical Doctors: Treat symptomatically. Call a doctor or poison control centre for guidance, or call NZ Poisons Centre on 0800 764 766.

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

Symptoms: No significant reaction of the human body to the product known.

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

Treatment: Symptomatic treatment (decontamination, vital functions).

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5. FIRE FIGHTING MEASURES

Specific Hazards:	Formation of toxic gases may occur if heated such as CO, CO ₂ and SO ₂ /SO ₃ , and they can be released in case of fire.
Suitable Extinguishing Media:	Keep fire exposed containers cool by spraying with water. Appropriate fire extinguishers are CO ₂ , Powder or Alcohol resistant foam. Unsuitable extinguishing media for safety reasons: CO ₂ .
Fire Fighting Advice:	Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). Keep unnecessary people away and move all other personnel to windward side of fire. Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire control water or other extinguishing agent and spillage safely according to the local regulations.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	Prevent leakage or spillage to water/soil/subsoil.
Minor Spills (Up to 20 kg):	Wear protective clothing. Avoid dust formation. Do not allow product or washings to enter the waterways or sewer.
Major Spills (more than 20 kg):	Wear protective clothing. Clear area of unprotected personnel. Contain spill and collect. Do not allow product or washings to enter the waterways or sewer. If spill does enter waterway contact local authority. Contaminated absorbent and wash water should be disposed of according to local and national regulations. Collect in an appropriate sealable container for disposal in an approved landfill or incinerate at an authorised installation.

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7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid prolonged or repeated contact with skin. Avoid inhaling the gel. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Keep away from sources of ignition – No smoking, eating or drinking while handling this product. Always use good personal hygiene procedures when handling this product. Wash hands and face before eating, drinking or smoking. Read the label before use.

Conditions for safe Storage including incompatibilities:

Keep out of the reach of children. Store in original container in a cool, dry, ventilated place, away from direct heat of sunlight. Store away from foodstuffs, children and animals. Do not allow product to get wet in storage. Storage period: 60 months.

Protection against fire and explosion:

Keep away from heat sources even though the product is not combustible. The product is not explosive. Keep away from oxidizing agents.

AGGREGATE STORAGE VOLUME THRESHOLDS: When stored with substances of the same hazard the aggregate quantity must be considered. For full details refer to the current standard NZS8409 Management of Agrichemicals or the HSNO Regulations.						
Location Certificate*:	Hazardous Atmosphere Zone*:	Fire Extinguishers:	Signage [Hazard Class & Emergency Action]:	Emergency Information:	Emergency Response Plan:	Secondary Containment:
NA	NA	NA	10,000 kg	50 kg	10,000 kg	10,000 kg
* Note: Farms \geq 4 ha are exempt but with controls						
DO NOT STORE OR LOAD WITH: Class 1 Explosive			SEGREGATE FROM: Foodstuffs and Food Containers			
Segregation: In store separate by at least 5 metres, on transport separate by at least 3 metres, in both cases horizontally. On vehicles a segregation device may be used: Check the Land Transport Rule Dangerous Goods, Rule 45001 for additional information. Sea transport may require additional segregation. Refer to NZS5433 Sea Segregation for details.						

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Personal protective equipment

Respiratory protection:
Respiratory protection not required.

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166).

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form:	low dusting fine granules
Colour:	grey-brown
Odour:	faint specific odour, sulphur-like
Odour threshold:	Not determined due to potential health hazard by inhalation.
pH value:	approx. 7 – 9 (CIPAC standard water D, 1 %(m), 20 °C) (pH Meter)
Melting point:	approx. 112 - 116 °C
Boiling point:	The product has not been tested.
Flash point:	not applicable
Evaporation rate:	not applicable
Flammability:	not flammable
Lower explosion limit:	approx. 25 g/m ³ (VDI 2263)
Upper explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Vapour pressure:	The product has not been tested.
Density:	approx. 1.88 g/cm ³ (20 °C)
Relative vapour density (air):	not determined
Solubility in water:	dispersible
Partitioning coefficient n-octanol/water (log Kow):	not applicable
Self ignition:	Temperature: 246 °C (Method: Directive 92/69/EEC, A.16)
Thermal decomposition:	165 °C, 50 kJ/kg (DSC (OECD 113)) 265 °C, 30 kJ/kg (DSC (OECD 113))
Viscosity, dynamic:	not applicable
Explosion hazard:	not explosive
Fire promoting properties:	not fire-propagating

9.2 Other information

Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section.

10. STABILITY AND REACTIVITY

Stability & Chemical reactivity:	Stable under label conditions of use. No hazardous reactions if stored and handled as indicated.
Incompatibility or conditions to be avoid:	Avoid strong acids, bases and oxidising agents.

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10. STABILITY AND REACTIVITY

Corrosive Properties:	NOT corrosive.
Hazardous Decomposition Products:	No hazardous decomposition products if stored and handled as prescribed/indicated.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

Experimental/calculated data:

LD50 rat (oral): > 2,200 mg/kg (OECD Guideline 401)

No mortality was observed.

LC50 rat (by inhalation): > 5.4 mg/l 4 h (OECD Guideline 403)

LD50 rat (dermal): > 2,000 mg/kg (OECD Guideline 402)

No mortality was observed.

Irritation

Assessment of irritating effects:

Not irritating to the eyes. Not irritating to the skin.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization:

There is no evidence of a skin-sensitizing potential.

Experimental/calculated data:

Guinea pig maximization test guinea pig: Skin sensitizing effects were not observed in animal studies. (OECD Guideline 406)

Germ cell mutagenicity

Assessment of mutagenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

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Carcinogenicity

Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

Reproductive toxicity

Assessment of reproduction toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. No substance-specific organotoxicity was observed after repeated administration to animals.

Other relevant toxicity information

Misuse can be harmful to health.

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12. ECOTOXICITY INFORMATION

12.1 Toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

Toxicity to fish:

LC50 (96 h) > 100 mg/l, *Oncorhynchus mykiss*

Aquatic invertebrates:

EC50 (48 h) > 1,000 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

Aquatic plants:

EC50 (72 h) 290 mg/l, *Ankistrodesmus bibrainus* (OECD Guideline 201)

Microorganisms/Effect on activated sludge:

EC50 (18 h) > 2,000 mg/l, *Pseudomonas putida* (static)

12.2 Persistence and degradability

Assessment biodegradation and elimination (H₂O):

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: sulphur

Assessment biodegradation and elimination (H₂O):

Inorganic product which cannot be eliminated from water by biological purification processes.

12.3 Bioaccumulative potential

Assessment bioaccumulation potential:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: sulfur

Bioaccumulation potential:

Accumulation in organisms is not to be expected. The product will not be readily bioavailable due to its consistency and insolubility in water.

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12.4 Mobility in soil

Assessment transport between environmental compartments:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: sulphur

Assessment transport between environmental compartments:

Study scientifically not justified.

12.5 Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

12.6 Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

12.7 Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

13. DISPOSAL CONSIDERATIONS

Waste treatment – recommendation:	In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001.
Container Disposal:	Empty containers can be sent to landfill after cleaning if in compliance with local and national regulations.
Contaminated package:	The contaminated package should be emptied and dispose them in the same manner as the substance.

14. TRANSPORT INFORMATION

Road, Rail; Marine and Air

UN Number: None

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14. TRANSPORT INFORMATION

Dangerous Goods Class:	Not classified as a DG
Hazchem Code:	None
Packaging Group:	None
Proper Shipping Name:	Not applicable
Segregation:	None allocated

15. N.Z. REGULATORY INFORMATION

HSNO Classifications: 6.4A and 9.1D.

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

For the user of this plant-protective product applies: 'To avoid risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)

15.2 Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

15.3 NZ Regulations

Approved pursuant to the HSNO Act 1996, Code HSR000741.
See www.epa.govt.nz for approval conditions.

Registered pursuant to the ACVM Act 1997, Nos. P3493.
See www.foodsafety.govt.nz/acvm for registration conditions.

16. OTHER INFORMATION

SDS date of preparation:	27 / 07 / 2017
SDS date of revision:	27 / 07 / 2022
Emergency Contact	24 Hours
Work Hours	National Poisons Centre
Kiwicare Corporation	PO Box 913
225 Maces Road	Dunedin
PO Box 15050	Tel: 0800 764 766 (POISON)
Christchurch	
Tel: (03) 389 0778	
Fax: (03) 389 0669	

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16. OTHER INFORMATION

All Safety Data Sheets are subject to review and should not be left longer than five years before and update is obtained.

For further information visit the Kiwicare web site, www.kiwicare.co.nz, or contact the supplier BASF, reception@basf-nz.co.nz.

The information in this document should be made available to all who may handle the product. For proper and safe use of this product, please refer to the product label.

This information is based on data believed by Kiwicare Corporation Limited to be accurate at the time of writing. It is given in good faith but no warranty expressed or implied is made as to its accuracy, completeness or otherwise. Every person dealing with the materials referred herein does so at their own risk absolutely and must make independent determinations of suitability and completeness of information from all sources to ensure their proper use.

Attention is drawn to the application and safety instructions set out on the label. This sheet is not a substitute for safety, hazard or application instructions set out on the label. As Kiwicare Corporation Limited and their distributors have no control over storage or use of this product no liability for accident or damage will be accepted.

Abbreviations:

ADR: European agreement concerning the international carriage of dangerous goods by Road.

CLP: Classification, Labelling and Packaging

IMDG: International Maritime Dangerous Goods.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organisation

RID: Regulations concerning the International carriage of Dangerous goods by rail.

GHS: Global Harmonized System

EU: European Union

EC: European Commission

TLV: Threshold Limit Value

TWA: Time Weighted Average

STEL: Short-Term Exposure Limit

H Phrase: Hazard phrase

P Phrase: Precautionary phrase

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