

SAFETY DATA SHEET

Section 1: Identification: Product identifier and chemical identity

Product Identifier:	RESOLVA® ORGANIC SULPHUR FUNGICIDE/MITICIDE
Other Means of Identification:	Product code: A8456E
Recommended Use:	Home garden fungicide and miticide
Details of manufacturer or importer	Syngenta Australia Pty Ltd ABN 33 002 933 717
Address:	Level 1, 2-4 Lyonpark Road MACQUARIE PARK NSW 2113 AUSTRALIA
Website:	syngenta.com.au
Phone Number:	(02) 8014 5200
Emergency Phone Number:	24 hours - 1800 033 111

Section 2: Hazards identification

Classification of the Hazardous Chemical:	Not classified as hazardous under GHS criteria.
Signal Word:	-
Hazard Statement(s):	-
Precautionary statements	-
Hazard Symbols:	-
Other hazards which do not result in classification:	May form combustible dust concentrations in air.

Section 3: Composition and information on ingredients

SUBSTANCE		
Chemical Identity of Pure Substance:	Sulphur	
Synonym:	Elemental sulphur	
CAS Number:	7704-34-9	
MIXTURE		
Chemical Identity of Ingredients:	CAS No	Proportion (%w/w)
Elemental Sulphur	7704-34-9	80
Other ingredients determined not to be hazardous		to 100

Section 4: First aid measures

Description of Necessary First Aid Measures:	<p>In case of poisoning by any exposure route get to a doctor or hospital quickly. Phone Poisons Information Centre on 131 126. Have the product label or SDS with you when calling or going for treatment.</p> <p>Ingestion: If swallowed, seek medical advice immediately and show this container or label. DO NOT induce vomiting.</p> <p>Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.</p> <p>Skin contact: Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.</p> <p>Inhalation: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or Poison Information Centre immediately.</p>
Symptoms Caused by Exposure:	Poisoning symptoms in laboratory animals were non-specific.
Medical Attention and Special Treatment:	Treat symptomatically.

Section 5: Fire fighting measures

Suitable Extinguishing Equipment:	<p>Small fires: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. DO NOT use a solid water stream as it may scatter and spread fire.</p> <p>Large fires: Use alcohol resistant foam or water spray. DO NOT use a solid water stream as it may scatter and spread fire</p>
Specific Hazards Arising from the Chemical:	<p>As this product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion. Combustion or thermal decomposition will evolve toxic and irritant vapours. Exposure to decomposition products may be a hazard to health. Flash back possible over considerable distance.</p>
Special Protective Equipment and Precautions for Fire Fighters:	<p>When fighting a major fire wear full protective clothing and self contained breathing apparatus.</p> <p>Do not allow run-off from fire fighting to enter drains or water courses.</p> <p>Cool closed containers exposed to fire with water spray.</p>

Section 6: Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures:	<p>In case of spillage it is important to take all steps necessary to</p> <ul style="list-style-type: none"> • Avoid eye and skin contact • Avoid contamination of waterways
Environmental precautions:	<p>Prevent further leakage or spillage if safe to do so.</p> <p>Do not flush into surface water or sanitary sewer system.</p>

Methods and Materials for Containment and Clean Up:

Procedure for spill

- (1) Keep all bystanders away
- (2) Wear full length clothing and PVC gloves
- (3) Reposition any leaking containers so as to minimise leakage
- (4) **For a product spill:** Sweep spill into a pile.
For a prepared spray spill: Dam and absorb spill with an absorbent material (eg sand or soil).
- (5) Shovel into drums
- (6) Disposal of the material will depend upon the extent of the spill
 - For quantities up to 50 kg of product bury in a secure landfill site
 - For quantities greater than 50 kg seek advice from the manufacturer (use emergency contact number below) before attempting disposal. Contain in a secure location until disposal method is established
- (7) Decontaminate spill area with detergent and water and rinse with the smallest volume of water practicable

Section 7: Handling and storage

Precautions for Safe Handling:

This material is capable of forming flammable dust clouds in air, which, if ignited, can produce a dust cloud explosion. Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material. Electrical equipment should be compatible with the flammability characteristics of this material. The flammability characteristics will be made worse if the material contains traces of flammable solvents or is handled in the presence of flammable solvents.

In general personnel handling this material and all conducting equipment should be electrically earthed or grounded. Consideration should be given to avoiding the use of insulating plastics. Bulk bags (FIBC) used to contain this material should be Type C or Type D. Type C bags must be electrically grounded before powder is charged to or discharged from the bag.

Bag filters used to scavenge dust from material handling processes should be conductive and electrically grounded during use. If metal or fibre drums are used to contain this product, make certain that the metal parts are bonded to the filling equipment and grounded.

Explosion protection is unlikely to be possible due to the increased violence of the dust cloud explosion.

This material could become charged under certain conditions such as pneumatic conveying.

Avoid contact with skin and eyes.

When using do not eat, drink or smoke.

Conditions for Safe Storage, Including any Incompatibilities:

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight.

Section 8: Exposure controls and personal protection

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

National Exposure Standards:	No exposure standard allocated
Syngenta Exposure Standards:	No exposure standard allocated
Biological Limit Values:	No biological limit allocated
Engineering Controls:	No special requirements. Product is used outdoors.
Personal Protective Equipment:	No special protective equipment required.

Section 9: Physical and chemical properties

Appearance:	Light brown to brown granule	Boiling Point/Range:	Not applicable
Odour:	Characteristic	Freezing/Melting Point:	Not available
pH:	7–12 at 1% w/v	Solubility:	Miscible in water
Vapour Pressure:	Not available	Bulk Density:	1.026 g/cm ³
Vapour Density:	Not available		

Flash Point:	Not applicable	Explosive Properties:	Not explosive
Upper and Lower Flammable (Explosive) Limits in Air:	Not highly flammable	Oxidising Properties:	Not oxidising
Auto Ignition Temperature:	>140°C	Combustibility:	Not applicable
Min. Ignition energy	≤1 mJ	Corrosiveness:	Not corrosive

Section 10: Stability and reactivity

Reactivity:	No hazardous reactions by normal handling and storage according to provisions.
Chemical Stability:	Stable at normal ambient temperature and pressure.
Possibility of Hazardous Reactions:	No hazardous reactions by normal handling and storage according to provisions.
Conditions to Avoid:	None known.
Incompatible Materials:	None known.
Hazardous Decomposition Products:	Combustion or thermal decomposition will evolve toxic and irritant vapours.

Section 11: Toxicological information

Health Effects from Likely Routes of Exposure:		
Acute	Oral toxicity:	LOW TOXICITY Tests on rats indicate this product has a low toxicity following single doses of undiluted product. LD ₅₀ = >5000 mg/kg
	Dermal toxicity:	LOW TOXICITY Tests on rabbits indicate this product has a low toxicity following skin contact with undiluted product. LD ₅₀ = >2000 mg/kg
	Inhalation:	LOW TOXICITY Tests on rats indicate this product is not harmful due to inhalation of undiluted product. LC ₅₀ (4 h) = >2.247 mg/L air
	Skin irritation:	NON IRRITANT
	Eye irritation:	NON IRRITANT
	Sensitisation:	NOT A SENSITISER

Chronic **Elemental sulphur** has been extensively tested on laboratory mammals and in test-tube systems. No evidence was obtained of mutagenic, carcinogenic, teratogenic, reproductive or chronic toxicity effects.

Section 12: Ecological information

Ecotoxicity	<p><i>Toxicity to fish:</i> Practically non-toxic to fish <i>Cyprinus carpio</i> (Carp): LC₅₀ >5000 mg/L, 96 h</p> <p><i>Toxicity to daphnia and other aquatic invertebrates:</i> Practically non-toxic to aquatic invertebrates <i>Daphnia magna</i> (Water flea): EC₅₀ > 1000 mg/L, 48 h</p> <p><i>Toxicity to algae:</i> Practically non-toxic to algae <i>Pseudokirchneriella subcapitata</i> (green algae): EbC₅₀ = 290 mg/L, 72 h</p> <p><i>Toxicity to soil dwelling organisms:</i> Practically non-toxic to earthworms <i>Eisenia foetida</i> (earthworm): LC₅₀ = >1600 mg/kg soil, 14 day</p> <p><i>Bees:</i> Practically non-toxic to bees</p>
Persistence and Degradability:	Sulphur is a natural component in water and soil.
Mobility	Sulphur is moderately mobile in soils
Environmental Fate (Exposure):	Incorporated into organic and inorganic molecules
Bioaccumulative Potential:	Sulphur does not bioaccumulate

Section 13: Disposal considerations

Disposal Methods:	Shake empty bag into spray tank. DO NOT dispose of undiluted chemicals on site. Puncture or shred and bury empty containers in a local authority landfill. If not available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.
Special Precautions for Incineration or Landfill:	Not applicable

Section 14: Transport information

LAND TRANSPORT ADG	Not a dangerous good in Australia		
UN Number:	None allocated	Packing Group:	None allocated
UN Proper Shipping Name:	None allocated	Special Precautions for User:	None allocated
Transport Hazard Class:	None allocated	Hazchem or Emergency Action Code:	None allocated
Subsidiary Risk:	None allocated		

SEA TRANSPORT IMDG			
UN Number:	None allocated	Subsidiary Risk:	None allocated
UN Proper Shipping Name:	None allocated	Packing Group:	None allocated
Transport Hazard Class:	None allocated	Environmental hazards for Transport Purposes:	None allocated

AIR TRANSPORT ATA - DGR			
UN Number:	None allocated	Subsidiary Risk:	None allocated
UN Proper Shipping Name:	None allocated	Packing Group:	None allocated
Transport Hazard Class:	None allocated		

Section 15: Regulatory information

APVMA Product Number:	67303
Poisons Schedule (SUSMP):	Exempt

Section 16: Any other relevant information

Date of preparation or last revision: 21 October 2021
Source of Data: The information provided in this SDS is sourced from Syngenta internal studies which have been conducted according to Regulatory requirements including OECD and CIPAC Guidelines and EC Directives. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.
Note: This product is a registered agricultural chemical and must, therefore, be used in accordance with the container label directions
CONTACT POINT: Regulatory Affairs Manager, Syngenta Australia Pty Ltd (02) 8014 5200 24 HOURS EMERGENCY CONTACT: 1800 033 111
This Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.
DISCLAIMER This product complies with the specifications in its statutory registration. Implied terms and warranties are excluded. Syngenta's liability for breach of the express or any non-excludable implied warranty is limited to product replacement or purchase price refund. The purchaser must determine suitability for intended purpose and take all proper precautions in the handling, storage and use of the product including those on the label and/or safety data sheet failing which Syngenta shall have no liability.

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