

MATERIAL SAFETY DATA SHEET

STATEMENT OF HAZARDOUS NATURE:

Hazardous according to the criteria of NOHSC

COMPANY DETAILS:

Syngenta Crop Protection Pty Limited
ABN 33 002 933 717
Level 1, 2-4 Lyon Park Road
NORTH RYDE, NSW 2113

Telephone No.: (02) 8876 8444
24 Hours Emergency No.: 1 800 033 111

IDENTIFICATION

PRODUCT NAME: THIOVIT® JET Microgranule Fungicide/Miticide

Formulation type:	water dispersible granule	Dangerous Goods Class/ and Subsidiary Risk:	none allocated
Active Ingredient:	Sulphur	Hazchem Code:	none allocated
Product Code No.:	SAN 7116	Packing Group:	none allocated
Chemical type:	Inorganic	Poisons Schedule:	exempt
UN Number:	none allocated		

USE: Fungicide and Insecticide for the control of powdery mildew, rust and mites in pome and stone fruit, citrus, grapevines, kiwifruit, strawberries and some vegetables.

PHYSICAL DESCRIPTION/PROPERTIES

Appearance:	Beige brown granule	Boiling point:	444.6°C
Odour:	Sulphurous odour	Flash Point:	Does not flash
Vapour pressure:	2 x 10 ⁵ mm Hg at 20°C	Flammability:	Non-flammable
Melting point:	119°C	Behaviour in water:	Miscible in water

OTHER PROPERTIES

Bulk Density:	800 - 900g/L	Combustibility:	Combustible
Oxidising properties:	Non-oxidising	pH (1% deion. water):	8 - 12

INGREDIENTS -

	CAS No.	Content (% w/w)
Elemental Sulphur (S)	7704-34-9	80
other ingredients determined not to be hazardous		to 100

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

ACUTE

Toxicity - This product is slightly hazardous (WHO Hazard Class III)

Swallowed:	VERY LOW TOXICITY Tests on rats indicate a very low toxicity following a single dose of a similar formulation of the undiluted product. (LD ₅₀ > 5000 mg/kg)
Dermal absorption:	LOW TOXICITY Tests on rats indicate a low toxicity due to skin contact with a similar formulation of the undiluted product. (LD ₅₀ > 2000 mg/kg)
Inhaled:	LOW TOXICITY Tests on rats indicate low toxicity due to inhalation of a similar formulation of the undiluted product. (LC ₅₀ (4 h) > 2,247 mg/m ³ air)

Irritation (Based on tests on rabbits)
Eye: **SLIGHTLY IRRITANT**
Skin: **SLIGHTLY IRRITANT**

Skin Sensitisation - (Based on tests with a similar formulation on guinea pigs)
NOT SENSITISING

CHRONIC (Active Ingredient)

Sulphur has been extensively tested and no evidence of any carcinogenic, mutagenic, teratogenic or reproductive effects has been found. Sulfur has a very long history of use as a pesticide and no cases of human poisoning have been recorded.

FIRST AID

In case of poisoning by any exposure route contact a doctor or Poisons Information Centre. Phone 131 126.

Swallowed: Contact a doctor or Poisons Information Centre.
Eye: May irritate eyes. Avoid contact with eyes. If product gets in eyes wash it out immediately with water.
Skin: May irritate skin. Avoid contact with skin. If skin contact occurs remove contaminated clothing and wash affected areas thoroughly with soap and water.
Inhaled: Move person to fresh air and keep at rest until recovered.

ADVICE TO DOCTOR

No specific antidote is available. If poisoning is suspected apply symptomatic therapy.

PRECAUTIONS FOR USE

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

EXPOSURE STANDARDS

No exposure standards have been set for this material.

Exposure Potential - Swallowing is unlikely under normal conditions of usage. Significant skin uptake does not occur. Inhalation is unlikely with this formulation. This product is diluted with water prior to use as a spray. This diluted form is less toxic by all routes of exposure.

Re-entry Period - Do not enter treated areas without protective clothing until the spray has dried.

ENGINEERING CONTROLS

No special requirements. Product is used outdoors.

PERSONAL PROTECTION

Avoid contact with eyes and skin. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

FLAMMABILITY

This product is NON-FLAMMABLE and non-explosive. Product is combustible.

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT

Store in tightly sealed original containers in a dry secure place away from fertilisers, seed, feed and food. Store out of direct sunlight. Keep out of reach of children, unauthorised persons and animals.

SPILLS AND DISPOSAL

In case of spillage it is important to take all steps necessary to:

- Avoid eye and skin contact.
- Avoid contamination of waterways.

Procedure for spill:

- (1) Keep all bystanders away.
- (2) Wear full length clothing and PVC gloves.
- (3) Re-position any leaking containers so as to minimise further leakage.
- (4) **For a product spill:** Sweep granule concentrate into a pile.
For a prepared spray spill: Dam and absorb spill with an absorbent material (e.g. sand or soil).
- (5) Shovel the absorbed material or granule concentrate into drums.
- (6) Disposal of the absorbed material will depend upon the extent of the spill.
 - For quantities up to 50kg of product bury in a secure landfill site.
 - For quantities greater than 50kg 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 the spill area with detergent and water and rinse with the smallest volume of water practicable.

Dispose of empty, used containers by:

- (a) Shake empty bag into spray tank. DO NOT dispose of undiluted chemicals on-site.
- (b) Puncture or shred and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose, clear of waterways, vegetation and roots. Empty containers and product should not be burnt.

FIRE/EXPLOSION HAZARD

This product is non-flammable and non-explosive. Extinguish warehouse and factory fires using fine-water spray or foam. During a fire this product may release smoke and hazardous decomposition products. When fighting a major fire wear an air-supplied respirator.

OTHER INFORMATION

Sulphur is non-toxic to fish and bees. Acute LC₅₀ (5hr) goldfish > 16,000 mg/L.

Note: This product is a registered agricultural chemical and must therefore be used in accordance with the container label directions. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the Federal health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

CONTACT POINT: Regulatory Affairs Manager - Crop Protection - (02) 8876 8444 24 HOURS EMERGENCY CONTACT: 1 800 033 111

This Material 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 MSDS 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.

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