

# Material Safety Data Sheet

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Infosafe No.	3NUHH	Issue Date : September 2007	ISSUED by CRPCARE
Product Name :	<b>BETAMITE 300WG Miticide</b>		

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name</b>	BETAMITE 300WG Miticide
<b>Product Code</b>	1015
<b>Product Type</b>	Group 14A Insecticide
<b>Company Name</b>	Crop Care Australasia Pty Ltd (ABN 53 061 362 347)
<b>Address</b>	Unit 15/16 Metroplex Avenue Murarrie Queensland 4172 Australia
<b>Emergency Tel.</b>	1800 033 498 (24hr Australia)
<b>Telephone/Fax Number</b>	Tel: +61 7 3909 2000 Fax: +61 7 3909 2010
<b>Recommended Use</b>	For the control of mites in various fruit and vegetable crops and in ornamentals as per the Directions for Use table on the label.
<b>Other Information</b>	This MSDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

## 2. HAZARDS IDENTIFICATION

<b>Hazard Classification</b>	HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. Hazard classification according to the criteria of NOHSC. Dangerous goods classification according to the Australia Dangerous Goods Code.
<b>Risk Phrase(s)</b>	R23 Toxic by inhalation. R38 Irritating to skin. R40 Limited evidence of a carcinogenic effect. R41 Risk of serious damage to eyes.
<b>Safety Phrase(s)</b>	S13 Keep away from food, drink and animal feeding stuffs. S2 Keep out of reach of children. S25 Avoid contact with eyes. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S45 In case of accident or if you feel unwell seek medical advice immediately
<b>Other Information</b>	Poisons Schedule S6

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Chemical Characterization</b>	Solid		
<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	Perlite	93763-70-3	30-60 %
	Talc	14807-96-6	10-30 %
	Other ingredients (non-hazardous)		0-10 %
	Propargite Tech	2312-35-8	300 g/kg

## 4. FIRST AID MEASURES

<b>Inhalation</b>	Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice immediately.
<b>Ingestion</b>	Rinse mouth and then drink plenty of water. Do not give anything by mouth to a semi-conscious or unconscious person. If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.
<b>Skin</b>	Wash affected areas thoroughly with soap and water.

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<b>Eye</b>	Remove contaminated clothing and launder before re-use. If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice immediately.
<b>Advice to Doctor</b>	Treat symptomatically.

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## 5. FIRE FIGHTING MEASURES

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<b>Suitable Extinguishing Media</b>	If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material.
<b>Hazards from Combustion Products</b>	Non-combustible. May emit hazardous smoke and fumes if involved in fires or exposed to extreme heat.
<b>Special Protective Equipment for fire fighters</b>	Breathable air apparatus should be worn when fighting a fire in which this product is involved.
<b>Hazchem Code</b>	2X
<b>Other Information</b>	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

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## 6. ACCIDENTAL RELEASE MEASURES

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<b>Spills &amp; Disposal</b>	Recover the product by sweeping up or vacuuming without raising dust. Collect spilled material and waste in sealable open-top type containers for disposal. On-site disposal of concentrate is not acceptable. Dispose of at a landfill in accordance with local regulations.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.

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## 7. HANDLING AND STORAGE

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<b>Precautions for Safe Handling</b>	Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers. Avoid generating dusts while handling the product and mixing.
<b>Conditions for Safe Storage</b>	Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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<b>National Exposure Standards</b>	NOHSC has set the following exposure standard for talc (inspirable dust) : TLV (TWA) 2.5 mg/m <sup>3</sup> , STEL -. NOHSC has set the following exposure standard for perlite dust : TLV (TWA) 10 mg/m <sup>3</sup> , STEL -.
<b>Engineering Controls</b>	Handle in well ventilated areas, generally natural ventilation is adequate.
<b>Personal Protective Equipment</b>	When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles.
<b>Hygiene Measures</b>	After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.
<b>Requirements Concerning Special Training</b>	NSW regulations require that people who use pesticides in their job or business must have training in the application of the materials.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Form</b>	Solid
<b>Appearance</b>	Beige granules.
<b>Solubility in Water</b>	Disperses in water.
<b>Vapour Pressure</b>	0.04 mPa
<b>Octanol/Water Partition Coefficient</b>	Kow Log P is 5.70 for propargite
<b>Flammability</b>	Non combustible material.

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## 10. STABILITY AND REACTIVITY

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<b>Chemical Stability</b>	Hydrolyses at pH >7.
<b>Hazardous Reactions</b>	Keep away from strong acids, bases and oxidising materials.

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## 11. TOXICOLOGICAL INFORMATION

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<b>Inhalation</b>	Inhalation of dust may cause discomfort, but health effects are unlikely.
<b>Ingestion</b>	Low toxicity. However, swallowing large amounts of concentrate may cause nausea and vomiting.
<b>Skin</b>	Prolonged contact with the concentrate may cause irritation.
<b>Eye</b>	The concentrate will cause severe irritation and possible damage unless washed off immediately.
<b>Reproductive Toxicity</b>	No such effects have been observed in the absence of maternal toxicity.
<b>Mutagenicity</b>	The weight of evidence indicates that propargite does not present a mutagenic risk.
<b>Carcinogenicity</b>	Rare bowel tumours have been found in one species of rat in a lifetime exposure study. Other species of rat and other test animals did not form the same tumour. As the reason for tumour formation in one species of rat but not in others is not known, propargite has been classified as a Category 3 carcinogen having limited evidence of a carcinogenic affect.
<b>Acute Toxicity - Oral</b>	LD50 (rat) 2800 mg/kg for propargite
<b>Acute Toxicity - Dermal</b>	LD50 (rat) 4000 mg/kg for propargite
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) 0.05 mg/l
<b>Eye Irritation</b>	Propargite is a severe eye irritant. Risk of serious damage to eyes.
<b>Skin Irritation</b>	May cause irritation.
<b>Skin Sensitisation</b>	Product is not a skin sensitiser.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for propargite for a human is 0.002 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 2 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, 'ADI List', TGA, September 2006).

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## 12. ECOLOGICAL INFORMATION

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<b>Persistence / Degradability</b>	Half life in soil is typically 50 - 60 days.
<b>Known Harmful Effects on the Environment</b>	The product is a marine pollutant for sea transport.
<b>Acute Toxicity - Fish</b>	The following is data for the active ingredient, propargite . Toxic to fish. LC50 (96hr) for rainbow trout is 0.043 mg/l.
<b>Acute Toxicity - Daphnia</b>	EC50 (48hr) for daphnia magna is 0.014 mg/l for propargite .
<b>Acute Toxicity - Algae</b>	LC50 (96 hr) for Selenastrum capricornutum is >1.08 mg/l. (no effects at the highest level tested)
<b>Acute Toxicity - Other Organisms</b>	Birds: Not toxic to birds. LD50 for mallard ducks is >4640 mg/kg

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## 13. DISPOSAL CONSIDERATIONS

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<b>Product Disposal</b>	On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®).
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**Container Disposal** Do not use this container for any other purpose. Thoroughly wash out the inner and add washings to the spray tank. Dispose of washed inner and cardboard box in 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, desirable vegetation and tree roots. Empty containers and product should not be burnt.

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## 14. TRANSPORT INFORMATION

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**Hazchem Code** 2X  
**Storage and Transport** Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.  
**UN Number (Sea Transport)** 3077  
**IMO Class/Packing Group** Class 9, Packing Group III  
**IMO Marine Pollutant** Marine Pollutant  
**IMO Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains Propargite)

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## 15. REGULATORY INFORMATION

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**Poisons Schedule** S6  
**Packaging & Labelling** POISON  
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING  
**Hazard Category** Toxic, Irritant  
**AICS (Australia)** All of the components in this product are listed on the Australian Inventory of Chemical Substances.

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## 16. OTHER INFORMATION

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**Contact Person/Point** Normal Hours: Mr Volker Maier Phone: (03) 9282 1000  
After Hours: Shift Supervisor Phone: 1800 033 498  
**Revisions Highlighted** First Issue  
...End Of MSDS...