



Material Safety Data Sheet

Page: 1 of 5

Infosafe No. 3NUF5 Issue Date : January 2007 ISSUED by NUFARM

Product Name : **TREBLE Miticide**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name TREBLE Miticide
Product Code 1060
Product Type Group 14A Insecticide
Company Name NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
Address 103-105 Pipe Road Laverton North
Victoria 3026 Australia
Emergency Tel. 24hr 1800 033 498
Telephone/Fax Number Tel:
(03) 9282-1000
Fax:
(03) 9282-1001
Recommended Use For the control of cotton mites (Tetranychus spp) in cotton as per the Directions for Use table on the label.
Other Information 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

Hazard Classification HAZARDOUS SUBSTANCE.
NON-DANGEROUS GOODS.
Hazard classification according to the criteria of NOHSC.
Dangerous goods classification according to the Australia Dangerous Goods Code.
Risk Phrase(s) R23 Toxic by inhalation.
R38 Irritating to skin.
R40 Limited evidence of a carcinogenic effect.
R41 Risk of serious damage to eyes.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness and cracking.
Safety Phrase(s) S1/2 Keep locked up and out of reach of children.
S13 Keep away from food, drink and animal feeding stuffs.
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
S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.
Other Information Poisons Schedule S6

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Liquid

Ingredients	Name	CAS	Proportion
	Propargite Tech	2312-35-8	600 g/L
	Liquid Hydrocarbons	64742-47-8	10-30 %
	Other ingredients (non-hazardous)		0-10 %

4. FIRST AID MEASURES

Inhalation Remove affected person to fresh air until recovered.
If symptoms develop or persist, seek medical advice immediately.
Ingestion Rinse mouth and then drink plenty of water.
Do not give anything by mouth to a semi-conscious or unconscious person.



Material Safety Data Sheet

Page: 2 of 5

Infosafe No. 3NUF5 Issue Date : January 2007 ISSUED by NUFARM

Product Name : **TREBLE Miticide**

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.

Skin Wash affected areas thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.

Eye If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.
Seek medical advice immediately.

Advice to Doctor Treat symptomatically.
If vomiting occurs, solvent present may cause pulmonary pneumonitis.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Water fog, foam, carbon dioxide or dry chemical.

Hazards from Combustion Products If involved in a major fire, will evolve oxides of sulphur or carbon.

Special Protective Equipment for fire fighters Breathable air apparatus should be worn when fighting a fire in which this product is involved.

Hazchem Code 2X

Other Information STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite).
Collect spilled material and waste in sealable open-top type containers for disposal.
On-site disposal of concentrate is not acceptable.

Personal Protection For appropriate personal protective equipment (PPE), refer Section 8.

Clean-up Methods - Large Spillages Place damaged containers in recovery bins (if available) and return to manufacturer.
If large liquid spills occur, attempt to recover as much spilt material from sumps and banded areas before absorbing remaining material into vermiculite or other absorbent.

7. HANDLING AND STORAGE

Precautions for Safe Handling Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers.

Conditions for Safe Storage Store in the closed, original container in a cool, well ventilated area.
Do not store for prolonged periods in direct sunlight.

Other Information Always read the label and any attached leaflet before use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards The manufacturer has recommended the following exposure standard for the solvent: TLV (TWA) 1200 mg/m³, STEL - mg/m³.

Engineering Controls Handle in well ventilated areas, generally natural ventilation is adequate.

Personal Protective Equipment 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.

Hygiene Measures 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.

Requirements Concerning Special Training NSW regulations require that people who use pesticides in their job or business must have training in the application of the materials. By 1st September, 2005 all users must have received such training.



Material Safety Data Sheet

Page: 3 of 5

Infosafe No. 3NUF5 Issue Date : January 2007 ISSUED by NUFARM

Product Name : **TREBLE Miticide**

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Appearance	Dark brown liquid.
Odour	Slight solvent odour.
Solubility in Water	Disperses in water.
Specific Gravity	1.014
Vapour Pressure	0.04 mPa @ 25°C for propargite
Octanol/Water Partition Coefficient	Kow Log P is 5.7 for propargite
Flammability	Combustible liquid C1.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Hazardous Reactions	Keep away from strong oxidising agents.

11. TOXICOLOGICAL INFORMATION

Inhalation	High vapour concentrations of the solvent while handling the concentrate are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, and may have other central nervous system effects.
Ingestion	If aspirated into the lung, e.g. from vomiting, the presence of solvent may result in lung damage.
Skin	Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis.
Eye	The concentrate will cause severe irritation and possible damage unless washed off immediately.
Reproductive Toxicity	No such effects have been observed in the absence of maternal toxicity.
Mutagenicity	The weight of evidence indicates that propargite does not present a mutagenic risk.
Carcinogenicity	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.
Acute Toxicity - Oral	LD50 (rat) 2800 mg/kg for propargite
Acute Toxicity - Dermal	LD50 (rat) 4000 mg/kg for propargite
Acute Toxicity - Inhalation	LC50 (rat) (4hr) 0.05 mg/l
Eye Irritation	Propargite is a severe eye irritant. Risk of serious damage to eyes.
Skin Irritation	May cause irritation.
Skin Sensitisation	Product is not a skin sensitiser.
Other Information	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, June 2006).

12. ECOLOGICAL INFORMATION

Persistence / Degradability	Half life in soil is typically 50 - 60 days.
------------------------------------	--



Material Safety Data Sheet

Page: 4 of 5

Infosafe No. 3NUF5 Issue Date : January 2007 ISSUED by NUFARM

Product Name : **TREBLE Miticide**

Known Harmful Effects on the Environment The product is a marine pollutant for sea transport.

Acute Toxicity - Fish The following is data for the active ingredient, propargite. Toxic to fish. LC50 (96hr) for rainbow trout is 0.043 mg/l.

Acute Toxicity - Daphnia EC50 (48hr) for daphnia magna is 0.014 mg/l for propargite.

Acute Toxicity - Algae LC50 (96 hr) for Selenastrum capricornutum >1.08 mg/l. (no effects at the highest level tested)

Acute Toxicity - Other Organisms Birds: Not toxic to birds. LD50 for mallard duck is >4640 mg/kg

13. DISPOSAL CONSIDERATIONS

Product Disposal 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®).

Container Disposal Do not use this container for any other purpose. Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, puncture or shred and bury containers in 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, desirable vegetation and tree roots. Empty containers and product should not be burnt. Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or storage. When the contents of the Envirodrum have been used, please return the empty Envirodrum to the point of purchase. The Envirodrum remains the property of Nufarm Australia Limited.

14. TRANSPORT INFORMATION

U.N. Number None Allocated

DG Class None Allocated

Hazchem Code 2X

Packing Group None Allocated

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) 3082

IMO Class/Packing Group Class 9, Packing Group III

IMO Marine Pollutant Marine Pollutant

IMO Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Propargite)

15. REGULATORY INFORMATION

Poisons Schedule S6

Packaging & Labelling POISON
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Hazard Category Toxic, Irritant



Material Safety Data Sheet

Page: 5 of 5

Infosafe No.	3NUF5	Issue Date : January 2007	ISSUED by NUFARM
--------------	-------	---------------------------	------------------

Product Name : **TREBLE Miticide**

AICS (Australia) All of the components in this product are listed on the Australian Inventory of Chemical Substances.

16. OTHER INFORMATION

Contact Person/Point Normal Hours: Mr Volker Maier Phone: (03) 9282 1000
After Hours: Shift Supervisor Phone: 1800 033 498

Revisions Highlighted The MSDS was reviewed. Minor changes were made to the information. The MSDS is now issued in a 16 header format.
...End Of MSDS...