

SAFETY DATA SHEET



ROGOR[®] Organophosphate Insecticide

Date of Issue: 11th July 2018

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s):	Dimethoate
Chemical Family:	Organophosphate
Recommended use:	Insecticide for insect control in various crops.
Supplier:	Agrisource 2000 Limited 45 Kitchener Road Pukekohe Phone: 09 237 0422
Emergency telephone number:	0800 Poison (0800 764 766) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classifications:	3.1C, 6.1C, 6.5A, 6.5B, 6.8B, 6.9A, 9.1B, 9.2B, 9.3A, 9.4A
Required identification Details:	3.1C: WARNING – flammable liquid and vapour. 6.1C: TOXIC – keep out of the reach of children. 6.5A: WARNING – may cause respiratory sensitisation. 6.5B: HARMFUL – may cause sensitisation from prolonged skin contact. 6.8B: HARMFUL - may cause reproductive damage from repeated oral exposure. 6.9A: TOXIC – may cause target organ damage from repeated oral exposure at high doses. 9.1B: TOXIC to aquatic organisms with long lasting effects. 9.2B: Toxic to the soil environment. 9.3A: Very Toxic to terrestrial vertebrates. 9.4A: Very Toxic to terrestrial invertebrates.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
dimethoate	60-51-5	40%
Hydrocarbons	64742-94-5	<30%
Cyclohexanone	108-94-1	<60
Inert ingredients		Balance

4. FIRST-AID MEASURES

Description of necessary first aid measures: In case of poisoning by any exposure route contact the National Poisons and Hazardous Chemicals Information Centre, PO Box 913, Dunedin. **Phone 0800 764 766, (0800 POISON).**

Effects and symptoms: Regular exposure may result in lowering of cholinesterase activity, typical symptoms are; numbness, tingling sensations, headache, dizziness, tremor, nausea, stomach cramps, sweating, difficulty breathing and slow heartbeat.

First-aid measures

Inhalation: If inhaled, move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped. Use mouth to nose rather than mouth to mouth. Obtain medical attention.

Ingestion: Wash out mouth with water. Keep patient at rest. DO NOT induce vomiting. Transport patient to doctor quickly. Give one atropine tablet every 5 minutes until dryness of the mouth occurs.

Skin contact: Immediately remove contaminated clothing. Wash affected areas with soap and water. Seek urgent medical aid. Persons assisting the patient should protect themselves from contamination.

Eye contact: If concentrate gets in the eyes, flush with running water for at least 15 minutes and obtain urgent medical aid.

5. FIRE-FIGHTING MEASURES

HAZCHEM Code: 3W

Extinguishing media : Alcohol resistant foam, Water spray, foam, dry chemical, Carbon dioxide, sand.

Fire Hazard Properties: In a fire, hydrogen cyanide, carbon monoxide, phosphorous pentoxide, sulphur dioxide and nitrogen oxides may be formed.

Protection of fire-fighters: Wear protective clothing and self contained breathing apparatus. Do not breathe smoke or gases.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin and eyes. Do not inhale spray. Wear Full Personal Protective Equipment (**PPE**). Chemical resistant coveralls, chemical resistant gloves, chemical resistant footwear plus socks, chemical resistant headgear and chemical resistant eyewear. Respiratory protection equipment (**RPE**) appropriate to protect against respiratory exposure to this substance in mist or vapour forms. Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing after work.

Environmental precautions:	Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.
Methods for cleaning up:	In the case of spillage, contain spilled material. Keep out animals and unprotected persons. Keep material out of streams and sewers. Vacuum or shovel waste into a drum. To decontaminate spill area, tools and equipment, wash with water. Dispose of drummed wastes in accordance with the requirements of Local Authorities

7. HANDLING AND STORAGE

Handling:	Avoid inhaling aerosols and vapors. Avoid contact with eyes and skin. Store work clothes and street clothes separately. Wash hand before breaks and at the end of work. Change contaminated protective clothing. Keep away from food, drinks and tobacco.
Storage:	Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs. Keep out of reach of children. Store in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).
Packaging materials:	HDPE Plastic drum.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Workplace exposure standards:	No exposure limit allocated.
Exposure Standards outside: The workplace:	No exposure standards have been set for this product or the active ingredients.
<u>Engineering measures</u> Exposure control measures:	Ensure ventilation is adequate, generally natural ventilation is adequate.

Personal Protective Equipment (PPE)

Detail specifications for equipment:

Respiratory system:	Respiratory protection equipment (RPE) appropriate to protect against respiratory exposure to this substance in mist or vapour forms.
Skin and body:	Chemical resistant coveralls, chemical resistant footwear plus socks, chemical resistant headgear.
Hands:	Chemical resistant gloves.
Eyes:	Chemical resistant eyewear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Colour:	Faint peach coloured liquid.
Odour:	Mercaptan/acetone odour.
pH:	Not available
Vapour Pressure:	Dimethoate: 0.25mPa at 25 °C
Vapour density:	Not available
Boiling Point:	Not available
Freezing/melting point:	Not available
Solubility:	Emulsifiable in water
Specific gravity or density:	Approx. 1.055
Flashpoint:	> 52° C
Octanol/water partition coefficient:	Log P = 0.704 at 20°C (<i>dimethoate</i>)
Explosion properties:	Not an explosive
Oxidation properties:	Not an oxidizer

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of use.
Conditions to avoid:	Temperatures >30°C and Sources of ignition.
Materials to avoid:	Oxidising agents, strong acids.
Hazardous decomposition Products:	Oxides and compounds of carbon, nitrogen, phosphorous and sulphur. Possibility of ammonia and hydrogen cyanide gas.
Hazardous reactions :	Dangerous reactions are possible with strong oxidizing

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral : LD₅₀	160mg/kg (mice) dimethoate
Acute toxicity - Dermal : LD₅₀	>2000mg/kg (rat) dimethoate
Acute toxicity – Inhalation: LC₅₀	
Skin irritation :	Non-irritant (rabbit) (similar product)
Eye irritation:	Non irritant (rabbit)
Sensitization :	Non sensitizing (Buehler test)
Chronic toxicity	Regular exposure may result in lowering of cholinesterase activity, typical symptoms are; numbness, tingling sensations, headache, dizziness, tremor, nausea, stomach cramps, sweating, difficulty breathing and slow heartbeat.

12. ECOLOGICAL INFORMATION

Fish toxicity:	LC50 (96 h): 6.2 mg/l rainbow trout (<i>Oncorhynchus mykiss</i>)
Daphnia toxicity:	Not Available

Algae toxicity:	Not Available
Bird toxicity:	LD50: 15 mg/kg (male pheasants) (96h)
Bee toxicity:	LD50: 0.1 – 0.2 ug/bee
Earthworm toxicity:	Not Available
Soil, Water, Air:	Not Available

13. DISPOSAL CONSIDERATIONS

Methods of disposal :	Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, follow the recommendations in NZS 8409.
	CONTAINER DISPOSAL: Triple rinse container and add rinsate to spray tank. Dispose of cleaned container at your local AGRECOVERY container collection site.

14. TRANSPORT INFORMATION - International transport regulations

UN number:	1993
UN Hazard Class:	3
Packing Group:	III
Hazchem Code:	3W
Marine Pollutant:	Yes
Proper shipping name :	FLAMMABLE LIQUID, N.O.S (contains dimethoate, cyclohexanone & xylene)
INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):	Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

ACVM Registered Number:	P2577 (See www.foodsafety.govt.nz for registration Conditions).
HSNO Approval Code:	HSR100129 (See www.epa.govt.nz for controls).
Approved Handler:	This product must only be applied by an Approved Handler or under the supervision of an Approved Handler.
Tracking:	Location and movement of this product must be recorded at each stage of its lifecycle.

16. OTHER INFORMATION

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

This Material Safety Data Sheet is based on information available at the time of issue. To the extent permitted by law, users of this information accept that neither the manufacturer, Agrisource 2000 Limited as distributor, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these information.