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**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY:**

PRODUCT NAME: **DANADIM**  
 MANUFACTURER: Cheminova Australia Pty Ltd  
 SUPPLIER NAME: Lonza NZ Ltd  
 SUPPLIER ADDRESS: 13-15 Hudson Rd, Bell Block, New Plymouth, New Zealand  
 SUPPLIER PHONE: +64 6 7559234 SUPPLIER FAX: +64 6 7551174  
 EMERGENCY PHONE: 0800 243 622, 0800 CHEMCALL INTERNATIONAL EMERGENCY PHONE: +64 4 917 9888  
 CHEMICAL FAMILY: Organophosphorous USE: Insecticide

**2. HAZARDS IDENTIFICATION:**

3.1 C: Warning - Flammable Liquid and Vapour.  
 6.1C; Toxic - may be fatal if swallowed, inhaled or absorbed through the skin.  
 6.5A; Toxic - may cause respiratory sensitisation. Avoid inhalation of vapours/mist.  
 6.5B; Harmful - may cause skin sensitisation from prolonged skin contact. Avoid skin contact.  
 6.8B; Harmful - may cause reproductive/development damage from repeated oral exposure.  
 6.9A; Toxic - may cause organ damage from repeated oral exposure at high doses.  
 9.1B; Toxic to fish/aquatic organisms with long-lasting effects.  
 9.2B; Toxic to the soil environment.  
 9.3A; Very Toxic to terrestrial vertebrates [birds].  
 9.4A; Very Toxic to terrestrial invertebrates [bees].  
 Refer to Section 15 for NZ EPA Requirements.

**3. COMPOSITION / INFORMATION ON INGREDIENTS:**

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Cyclohexanone	108-94-1	<60	
Aromatic Hydrocarbons	64742-94-5	<30	
Inerts		Balance	
Dimethoate	60-51-5	400 g/L	

**4. FIRST - AID MEASURES:**

EYE CONTACT: Immediately flush with flowing water for at least 15 minutes. Seek medical attention if irritation persists.  
 SKIN CONTACT: Wash with plenty of soap and flowing water for at least 15 minutes while removing contaminated clothing. Do not scrub skin. If skin irritation or a rash occurs seek medical attention. Wash clothing before reuse.  
 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: If swallowed, rinse mouth with water immediately. DO NOT induce vomiting. For advice contact the National Poisons Centre [ 0800 764 766]. Seek medical attention.  
 NOTES TO DOCTOR: Cholinesterase inhibitor. Atropine is the specific antidote.

**5. FIRE FIGHTING MEASURES:**

FLASHPOINT: 52 °C HAZCHEM CODE: 3W  
 FLAMMABLE LIMITS: Not available  
 EXTINGUISHING MEDIA: Alcohol resistant foam, foam, water spray (fog), carbon dioxide or dry chemical.  
 THERMAL DECOMPOSITION PRODUCTS: Oxides and compounds of carbon, nitrogen, phosphorous and sulphur. Possibility of ammonia and hydrogen cyanide gas.  
 SPECIAL FIRE FIGHTING METHODS: Vapours may be toxic. Self contained breathing apparatus required. Do not allow contaminated run-off to enter drains.  
 UNUSUAL FIRE OR EXPLOSION HAZARDS:

**6. ACCIDENTAL RELEASE MEASURES:**

Use appropriate protective equipment. Clear area of unnecessary personnel. Spills may be slippery and should be cleaned up immediately.  
 Large spill: Dike and pump as much as possible to a salvage container. Absorb the remaining liquid and any small spills with clay granules, sand or other absorbent material and sweep to a waste container. Cover the spill area with water and absorb. Minimise runoff into waterways or drains. Dispose of waste according to good waste management practice in a land fill and in compliance with all regulations.

**7. HANDLING AND STORAGE:**

Toxic - Keep out of reach of children.  
 This product triggers specific handling and storage requirements for Class 3.1 C, as detailed in the Hazardous Substances [Classes 1 to 5 Controls] Regulations 2001.  
 Store in original container, tightly closed under lock and key, in a cool well-ventilated place, away from food stuffs, animal feed and ignition sources. Avoid breathing vapours or spray. Wash protective clothing daily after work.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION:**

EXPOSURE LIMITS: No TEL or EEL's exposure limits have been specifically assigned for this products. WES set for Cyclohexanone [CAS 108-94-1]; - 8h TWA (vapour & particulates): 25 ppm - 100 mg/m<sup>3</sup>.  
 EYE PROTECTION: Chemical goggles or face shield should be worn when the product is being used.  
 RESPIRATORY PROTECTION: Avoid breathing in vapours or aerosol from the product. For short term exposure to mists and aerosols use a mask and filter eg. Filter A-P2 or a filter canister for organic vapours. In the case of a fire or longer term exposure to vapours or mist use self contained breathing apparatus.  
 PROTECTIVE CLOTHING: If skin contact or contamination of clothing is likely, protective clothing such as impervious gloves, waterproof hat, coat and trousers (worn outside rubber boots should be worn).  
 VENTILATION: General (mechanical) room ventilation is considered satisfactory, but avoid breathing vapours.  
 HYGIENE PRECAUTIONS: Do not eat drink or smoke while working with this product. Remove clothing that becomes soaked or contaminated and wash before reuse. Wash hands before breaks and after work. The use of a skin barrier cream is useful to give additional skin protection.

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**9. PHYSICAL AND CHEMICAL PROPERTIES:**

APPEARANCE / STATE / ODOUR: Faint peach coloured liquid with mercaptan/acetone odour.  
BOILING POINT: Not available pH: No data  
DENSITY: 1.055 SETTING POINT: No data  
DECOMPOSITION TEMP: No data AUTOIGNITION TEMP: No data  
FLASHPOINT: 52 °C VAPOUR DENSITY: No data  
EXPLOSION PROPERTIES: Moderate risk if commercial quantities are involved in a fire. VAPOUR PRESSURE: Dimethoate: 0.25mPa at 25 °C  
SOLUBILITY: Emulsifiable in water  
OTHER DATA:  
OCTANOL / WATER PARTITION COEFFICIENT: Dimethoate: 0.704 [log P]

**10. STABILITY AND REACTIVITY:**

CONDITIONS TO AVOID: Temperatures >30 °C. Sparks or ignition sources.  
MATERIALS TO AVOID: Avoid strong acids, strong bases, strong oxidising agents.  
HAZARDOUS DECOMPOSITION: Oxides and compounds of carbon, nitrogen, phosphorous and sulphur. Possibility of ammonia and hydrogen cyanide gas.

**11. TOXICOLOGICAL INFORMATION:**

ACUTE ORAL: LD50 Mice: 160 mg/Kg (Dimethoate).  
ACUTE DERMAL: LD50 Rats: >2000 mg/Kg (Dimethoate).  
ACUTE INHALATION:  
OTHER TOXICITY INFORMATION:  
May be fatal if swallowed, inhaled or absorbed through the skin.  
May cause respiratory sensitisation. Avoid inhalation of vapours/mist.  
May cause skin sensitisation from prolonged skin contact. Avoid skin contact.  
May cause reproductive/development damage from repeated oral exposure.  
May cause organ damage from repeated oral exposure at high doses.  
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:**

Aquatic Toxicity: LC50 (96h) rainbow trout; 6.2 mg/L (Dimethoate).  
Terrestrial Vertebrates - Birds: LD50 male pheasants; 15 mg/kg (Dimethoate).  
Terrestrial Invertebrates - Bees: LD50; 0.1 - 0.2 µg/bee (Dimethoate).  
Toxic to fish with long-lasting effects. Avoid contamination of any water supply with product or empty container.  
Toxic to the soil environment. Very Toxic to terrestrial vertebrates [birds].  
Very Toxic to terrestrial invertebrates [bees]. Danadim must not be applied to plants from seven [7] days before flowering until petal fall, if the plants are likely to be visited by bees.

**13. DISPOSAL CONSIDERATIONS:**

Triple rinse empty container and add rinsate to the spray tank. If recycling, discard cap and deliver clean container to an Agrecovery depot. Alternatively crush and bury in an approved landfill.  
Dispose of product only by using according to this label, or at an approved disposal facility.  
Avoid contamination of any water supply or stream with product or empty container.

**14. TRANSPORT INFORMATION:**

Proper Shipping Name: ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE (Dimethoate & Cyclohexanone)  
UN Number: 3017  
UN Hazard Class: 6.1 Subsidiary Risk: 3  
Packing Group: III Hazchem Code: 3W  
Additional Information: The maximum quantity of this substance which may be carried on a passenger service vehicle is 1 L per package. This product requires segregation from certain other Classes of Dangerous Goods. Check the latest LTSA DG Rule 45001 for information.

**15. REGULATORY INFORMATION:**

APPROVED HANDLER: This product must be under the personal control of an approved handler or it must be locked up. However a non approved handler may handle the product if: an approved handler is present at the facility where the substance is being handled, and the approved handler has provided guidance to the person in respect to the handling of the product, and is available at all times to provide assistance if necessary.

Danadim has a Restricted Entry Interval (REI) of 48 hours. (1) The person in charge of the application area shall ensure that no person who is authorised to be there enters the application area until the end of the REI. (2) Despite (1), a person may enter the application area before the end of the REI— (a) if PPE and RPE is worn as if that person is applying the substance; and (b) if entering an indoor treated area, for the purpose of carrying out tasks associated with ventilation of the building or structure.

RECORD KEEPING: A written record of each application or discharge must be kept where - a) members of the public may lawfully be present; or b) the substance is likely to enter the air or water and leave the area where it is under control. The information must be kept for a minimum of three [3] years.

Danadim must not be applied to plants from seven [7] days before flowering until petal fall, if the plants are likely to be visited by bees. This product is NOT to be applied onto or into water.

Approved pursuant to the HSNO Act 1996. NZ EPA Approval Code: HSR100129 See <www.epa.govt.nz> for controls.  
Registered pursuant to the ACVM Act 1997. ACVM Pesticide No: P008040 See <www.nzfsa.govt.nz> for registration conditions.

**16. OTHER INFORMATION:**

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product's properties.