

Material Safety Data Sheet

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Infosafe No. 3NU0X Issue Date : June 2004 ISSUED by CRPCARE

Product Name : **Dominex Duo Insecticide**

Classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name Dominex Duo Insecticide
Product Code 1711
Product Use Controls insect pests of cereals, cotton, grain legumes, oilseeds, pastures, pome and stone fruits, trees and ornamentals, tobacco and vegetables as specified in the direction for use table.
Company Name Crop Care Australasia Pty Ltd (ABN 53 061 362 347)
Address 77 Tingira Street Pinkenba
Queensland 4008 Australia
Emergency Tel. 1800 033 498
Telephone/Telex Number Tel: (07) 3867 9100 Fax: (07) 3867 9110
Product Type Group 3A Insecticide
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. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Liquid

Ingredients	Name	CAS	Proportion
	Liquid Hydrocarbons	64742-94-5	741.9 g/L
	Alpha Cypermethrin	67375-30-8	100 g/l
	Surfactant		0-5 % w/v

Substance Chemical Family Synthetic Pyrethroid

3. HAZARDS IDENTIFICATION

Harmful by inhalation.
Harmful if swallowed.
May cause sensitisation by inhalation and skin contact

Other Information Poisons Schedule 6

4. FIRST AID MEASURES

Inhalation Remove affected person to fresh air until recovered.
If symptoms develop or persist, seek medical advice.

Ingestion Rinse mouth thoroughly with water.
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.
The above first aid instructions are mandated by the Commonwealth Department of Health and Aged Care via the National Drugs and Poisons Schedule. These instructions are suitable for ingestion of spray solution and small amounts of concentrate; however, if SUBSTANTIAL AMOUNTS of the concentrate have been swallowed (more than about 15ml) AND if medical assistance is more than 30 minutes away, the induction of vomiting should be CONSIDERED, preferably based on MEDICAL ADVICE if a physician can be contacted by phone. All care must be taken to prevent vomit from being inhaled. Do not give anything by mouth to a semi-conscious or unconscious person.

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Skin	Remove contaminated clothing and launder before re-use. Wash affected areas thoroughly with soap and water. If irritation persists, seek medical advice.
Eye	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice.
First Aid Facilities	If poisoning occurs, contact a doctor or Poisons Information Centre on 13 11 26 (Australia).
Advice to Doctor	Treat symptomatically. In cases of skin contact, application of Vitamin E cream has been found to have very high therapeutic value.

5. FIRE FIGHTING MEASURES

Extinguishing Media	Water fog, foam, carbon dioxide or dry chemical. Avoid using large volumes of water which would spread the product.
Hazardous	Although material is not flammable, the concentrate is combustible.
Combustion Products	If involved in a fire, it will emit carbon monoxide and possibly hydrogen chloride.
Protective Equipment	Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.
Other Information	Prevent 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. Dispose of at a landfill in accordance with local regulations. On-site disposal of concentrate is not acceptable.
Clean-up Methods - Large Spillages	Place damaged containers in recovery bins (if available) and return to manufacturer.

7. HANDLING AND STORAGE

Handling	Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers. Do NOT spray in high winds.
Storage	Store in the closed, original container in a dry, well ventilated area out of direct sunlight.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limits	No biological exposure limit allocated. No exposure standards have been set for this product or the active ingredients. The manufacturer of the solvent has recommended an occupational exposure limit of 100 mg/m ³ ; 17ppm TWA, as total hydrocarbon.
Respiratory Protection	Do not inhale spray mist.
Eye Protection	Wear chemical goggles.
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.
Eng. Controls	Handle in well ventilated areas, generally natural ventilation is adequate.
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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear straw coloured liquid.
Odour Aromatic Odour.
Solubility in Water Not soluble.
Boiling Point 135°C
Specific Gravity (H2O=1) 0.92 @20°C
Volatile Component >60% by volume
Flash Point 62°C
Flammability Combustible liquid C1.
Kinematic Viscosity >27 x10⁻⁶ m²/sec

10. STABILITY AND REACTIVITY

Stability Do not store below 4°C.
The product crystallises at low temperatures.
Hazardous Polymerization Hazardous polymerisation is not possible.
Hazardous Reaction Keep away from strong oxidising agents.

11. TOXICOLOGICAL INFORMATION

Inhalation May cause sensitisation by repeated inhalation of spray.
Breathing vapour can result in headaches, dizziness and possible nausea.
Breathing in high concentrations can produce central nervous system depression, which can lead to loss of coordination, impaired judgement and if exposure is prolonged, unconsciousness.

Ingestion The concentrate is harmful if swallowed.
Ingestion of alpha-cypermethrin in relatively large amounts can result in headache, nausea, lethargy, motor weakness and incoordination.

Skin May irritate the skin.
Prolonged or repeated exposure may cause skin sensitisation.
Exposure to alpha-cypermethrin can result in sensations of tingling especially in the face. The effects are transient and generally disappear in one to two days.
Topical application of vitamin E cream is effective in reducing discomfort.
The occurrence of 'facial sensations' is an indication of exposure. Under these circumstances work practices should be reviewed.

Eye The concentrate may cause irritation of the eyes.

Chronic Effects Repeated exposure could result in peripheral nervous system damage.

Acute Toxicity - Oral LD50 (rat) 79 - 474 mg/kg for alpha cypermethrin technical

Acute Toxicity - Dermal LD50 (rat) >2000 mg/kg for alpha cypermethrin
LD50 (rabbit) >2000 mg/kg for alpha cypermethrin

Acute Toxicity - Inhalation LC50 (rat) (4hr) >0.32 mg/l

Eye Irritation Mild eye irritant.

Skin Irritation Mild skin irritant.

Skin Sensitisation Prolonged and repeated skin contact may result in skin sensitisation.

Other Information The Australian Acceptable Daily Intake (ADI) for alpha cypermethrin for a human is 0.05 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 4.7 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, August 2003).

12. ECOLOGICAL INFORMATION

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Known Harmful Effects on the Environment Alpha cypermethrin products do not appear to pose any threat to birds. The product is a marine pollutant for sea transport. Alpha cypermethrin is toxic to fish.

Persistence / Degradability Average field half life of alpha cypermethrin is 90 days.

Acute Toxicity - Fish The following is data for the active ingredient, alpha cypermethrin. Toxic to fish. LC50 (96hr) for rainbow trout is 0.0028 mg/l.

Acute Toxicity - Daphnia LC50 (48 hr) for alpha cypermethrin is 0.0003 mg/l.

Acute Toxicity - Other Organisms Birds: Not toxic to birds. LD50 for mallard duck is >10,000 mg/kg
Bees: Toxic to bees. LD50 0.059 µg/bee.

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 (ChemCollect).

Container Disposal 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.
drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMuster symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program.

14. TRANSPORT INFORMATION

U.N. Number None Allocated
DG Class None Allocated
Hazchem Code None Allocated
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 Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(contains Alpha-cypermethrin)

IMDG Hazard Class 9
IMDG Pack. Group III

15. REGULATORY INFORMATION

Risk Phrase R20 Harmful by inhalation.
R22 Harmful if swallowed.
R42/43 May cause sensitisation by inhalation and skin contact

Safety Phrase S2 Keep out of reach of children.
S24 Avoid contact with skin.
S36/37 Wear suitable protective clothing and gloves.

Poisons Schedule S6
Hazard Category Harmful
Packaging & Labelling POISON
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

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...