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Telephone: 03 9282 1000 Fax: 03 9282 1001

PRODUCT: MALDISON 500 Insecticide	Infosafe No: NU013 ISSUED: Jan 02
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Hazardous according to criteria of Worksafe Australia

UN NO....: D.G.CLASS: CAS NO...:
HAZCHEM...: SUB. RISK:
SUSDP....: S6 (FED) S6 (NSW) S6 (VIC) S6 (SA) S6 (WA) S6 (Qld) S6 (Tas) S6 (NT)
G.T.EPG...: SPEC.EPG.: PACK. GRP:

PRODUCT IDENTIFICATION

OTHER NAMES:

TRADE NAMES.: MANUF.: MANCODE:
Maldison 500 Insecticide NUFARM 1305

INGREDIENTS:

CHEMICAL ENTITY:	CAS NO:	PROPORTION:
Maldison	121-75-5	500 g/L
Solvesso 150 solvent	64742-94-5	493 g/L
Proprietary surfactant mix; not classified as hazardous		balance

PHYSICAL DESCRIPTION/PROPERTIES

APPEARANCE:

Clear, amber liquid with characteristic odour.

BOILING POINT.....: 183-210°C for solvent

MELTING POINT.....: <0°C

VAPOUR PRESSURE....: 5.3mPa for malathion @ 30°C

VOLATILE COMPONENT.: 50%

SPECIFIC GRAVITY...: 1.072

FLASH POINT.....: 64°C

FLAMMABILITY LIMITS: 0.6 - 7.0% v/v for solvent.

REL. VAPOUR DENSITY: >1

OTHER PROPERTIES:

Forms an emulsion on mixing with water.

USE:

For the control of a wide range of insect pests in certain crops, wildflowers, eucalypts and on livestock as per the Directions for Use table.



MATERIAL SAFETY DATA SHEET

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HEALTH HAZARD INFORMATION

ACUTE EFFECTS

SWALLOWED:

The concentrate is considered harmful if swallowed, when classified according to the Worksafe Criteria.

EYE:

May cause some irritation. Permanent eye injury is not expected.

SKIN:

Product may irritate the skin. Maldison can be absorbed through the skin.

Prolonged or repeated exposure to the solvent in the product may cause defatting of skin which could lead to secondary dermatitis. A chronic hazard may exist after repeated contact due to the solvent present.

INHALED:

Inhalation of solvent may cause nausea and headache but effects due to maldison are unlikely. Inhalation of excessive amounts of spray may cause cholinesterase inhibition.

CHRONIC EFFECTS

Chronic Over Exposure: Prolonged or repeated exposure may show adverse effects on the liver and kidneys.

OTHER HEALTH HAZARD INFORMATION

A CHOLINESTERASE INHIBITOR

Acute Over Exposure: Headache and nausea due to solvent and salivation, diarrhea, twitching, vomiting and convulsions from active ingredient.

FIRST AID

SWALLOWED:

If poisoning occurs, contact a doctor or Poisons Information Centre 131 126. Do not give fluids or induce vomiting if person is unconscious or having convulsions. If swallowed, give one atropine tablet (0.6mg) every 5 minutes until dryness of the mouth occurs. Get affected person to a doctor or hospital promptly.

EYE:

Irrigate for 15 minutes with copious quantities of water with eyelids held open.

SKIN:

Remove contaminated clothing and launder before re-use. Wash affected areas thoroughly with soap and water. Give atropine if exposure is serious. Get affected person to a doctor or hospital promptly.



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INHALED:

Remove to fresh air until recovered. Give artificial resuscitation if breathing has stopped. Obtain medical advice.

FIRST AID FACILITIES:

Obtain an emergency supply of Atropine tablets (0.6mgm).

ADVICE TO DOCTOR:

A cholinesterase inhibitor. Atropine treatment may be required or treat with up to 10mg of IV diazepam - curare therapy is contraindicated. Treat hydrocarbon pneumonitis secondary to pulmonary oedema. Do not give adrenergic amines, aminophylline, succinylcholine, phenothiazines or reserpine alkaloids or oils.

TOXICITY DATA:

Technical Maldison:

Toxicity to Mammals:

Acute oral LD50 for rats: 1375-2800mg/kg
mice: 775-3321mg/kg
cattle: 500mg/kg

Acute dermal LD50 for rabbits: 4100mg/kg

Acute dermal LD50 for rats >2000 mg/kg

LC50 Inhalation for rats >5.2 mg/L (4hr)

Toxicity to Fish: Toxic to fish

LC50 for bluegill sunfish: 0.1mg/l

Toxicity to Bees: Toxic to bees

Toxicity to birds: Not acutely toxic to birds.

The Australian Acceptable Daily Intake(ADI) of Maldison for a human is 0.02 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.26 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 & Aged Care, TGA, "ADI List", August 2001).

PRECAUTIONS FOR USE

EXPOSURE STANDARDS:

Exposure standard for malathion (maldison): 10mg/m3 (TWA), Skin.

For Solvesso 150 solvent the supplier recommends an occupational exposure limit of 100 ppm, TWA as total hydrocarbon.



MATERIAL SAFETY DATA SHEET

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ENGINEERING CONTROLS:

Natural ventilation only except in confined spaces where local exhaust ventilation should be provided when handling the concentrate.

PERSONAL PROTECTION:

The concentrate is harmful, skin absorption is the most common route of exposure. May irritate the eyes and skin. Repeated minor exposure may have a cumulative effects. Avoid contact with the skin and eyes and avoid breathing the vapour. Do not inhale the spray mist. When opening the container of concentrate and preparing the spray, wear cotton overalls buttoned to the neck and wrist, washable hat and elbow-length PVC gloves. When using in an enclosed area wear face shield. If product spilled on skin wash area thoroughly with soap and water. After use and before eating, drinking or smoking, wash hands, arms, and face thoroughly with soap and water. After each day's use, wash gloves, face shield and contaminated clothing. Do not eat or smoke while spraying.

FLAMMABILITY:

Combustible liquid. The spray is not a combustible liquid.

ENVIRONMENT:

Toxic to fish.
Toxic to bees.
Do not spray any plants in flower while bees are foraging.
Do not contaminate dams, rivers or streams with pesticide or used container.
Do not use container for any other purpose.
Triple rinse containers with water and add rinsate to the spray solution.
Puncture top, bottom and sides of empty container, then crush and bury in an approved landfill, or bury under at least 500mm of soil in a non-crop, non-pasture area way from water sources or homes.
Maldison is rapidly biodegraded in soil and sewage treatment plants.
On-site disposal of concentrate is not acceptable.

***** **SAFE HANDLING INFORMATION** *****

STORAGE AND TRANSPORT:

STORAGE:

Store in the closed, original container in a well-ventilated area away from children, animals, food, feedstuffs, seed and fertilisers.

ROAD AND AIR TRANSPORT:

Considered not a dangerous good for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail AND IATA Dangerous Goods Regulations.

SEA TRANSPORT:



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STORAGE AND TRANSPORT: - (continued)

ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (CONTAINS MALDISON)

UN 3082 Class: 9

Packaging Group: III

Packaging and Labelling:

POISON

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING

Risk Phrases

R22 Harmful if swallowed

Safety Phrases

S2 Keep out of reach of children

S24 Avoid contact with skin

SPILLS AND DISPOSAL:

Contain spill and absorb with sand or proprietary absorbent (vermiculite).

Prevent from entering drains, waterways or sewers.

Collect in sealed open top containers for disposal.

Waste disposal by industrial incineration or burial at an approved landfill.

Addition of lime to contaminated soils will increase the rate of maldison destruction, especially when the soil is moist.

FIRE/EXPLOSION HAZARD:

Toxic gases containing oxides of sulphur and phosphorous may be evolved if involved in fires or exposed to extreme heat. Breathable air apparatus may be required in confined area. Stay upwind.

Extinguishing media: Water fog, dry chemical, foam or carbon dioxide.

Reactivity Data:

The material will decompose non-violently when exposed to strong acids or alkalis or extreme heat. Avoid oxidising materials such as chlorine or inorganic peroxides.

OTHER INFORMATION

User Data:

Contact Point:

Normal Hours: Mr. Volker Maier Phone: (03) 9282 1000

After Hours: Shift Supervisor Phone: 1800 033 498