

SAFETY DATA SHEET

HORTCARE™ DIAZINON 500 EW

SECTION 1: Identification of the substance and supplier

Product name: HORTCARE™ DIAZINON 500 EW
Recommended Use: Insecticide

Company: Grosafe Chemicals Ltd.
Address: 20 Jean Batten Drive, Mt Maunganui 3116 (P.O. Box 14450 Tauranga 3143)
Email: info@grosafe.co.nz
Telephone Toll Free Number:
Emergency Telephone Number: 0800 CHEMCALL (0800 243622)
(EMERGENCIES ONLY)

Date of Issue: April 2017

SECTION 2: Hazards Identification

HSNO Hazard Classification: 6.1D may be harmful if swallowed, 6.3B, skin irritant, 6.8B may cause reproductive/ developmental damage from repeated oral ingestion, 6.9A may cause damage to the nervous system from repeated oral exposure, 9.1A very toxic to aquatic organisms, 9.2D harmful in the soil environment, 9.3A very toxic to terrestrial vertebrates, 9.4A very toxic to terrestrial invertebrates.

SECTION 3: Composition/information on ingredients

<u>Ingredients</u>	<u>CAS Number</u>	<u>content</u>
diazinon	333-41-5	500 g/l
Non hazardous ingredients		q.s.

SECTION 4: First Aid Measures

Inhalation Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.

Ingestion Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766) . Seek medical assistance immediately.

Skin Immediately remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical advice.

Eyes Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance.

First Aid Facilities Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

Advice to Doctor: Cholinesteras inhibitor:

Initial Treatment: Atropine is the specific antidote. An initial trial dose of atropine 2mg intravenously should be given and repeated every 15 minutes until an atropine effect is noted (diluted pupils, dry mouth, flushing of the skin) . Reduce to a schedule that maintains full atropinisation for at least 24 hours. The dose and frequency of atropine will vary from case to case.

Medical: Take blood samples for cholinesterase levels before starting treatment. Stomach washout if organophosphate has been ingested. Pralidoxime enhances the reactivation of acetyl cholinesterase. It is most effective if given early, but can still be started up to 48 hours after poisoning. Pralidoxime is given at a dose of 1 - 2mg by slow I.V. infusion at a maximum rate of 0.5gm/min. It is used as an adjunct to, not a replacement for atropine.

Respiratory Difficulty: Carefully monitor for 24 hours.

Convulsions: Control with Diazepam (Valium) 5 - 10mg by slow I.V. or I.M. repeat as necessary.

SECTION 5: Fire Fighting Measures

Extinguishing Media: Water fog, foam, carbon dioxide or dry chemical.
Choose extinguishing media to suit the burning material.

Hazardous CombustionProducts: Hazardous thermal decomposition products may include but not limited to: various aliphatic organophosphates, substituted pyrimidine and hydrogen cyanide, S-TEPP and diazoxon may form when diazinon is reacted with trace amounts of water. Oxides of carbon, nitrogen, sulphur and phosphorus may also be formed. Sulphur dioxide is an irritant and may induce asthma. Nitrogen oxides are irritants to the lungs - may cause pulmonary oedema. Carbon dioxide causes asphyxia by displacing oxygen.

ProtectiveEquipment: Full protective clothing and self - contained breathing apparatus.

HAZCHEM: 2X

SECTION 6: Accidental Release Measures

Spills & Disposal Wear protective clothing. Clear area of unprotected personnel. Contain spill and absorb with sand, soil or absorbent granules. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.

If spill is on the ground, the affected area should be removed to a depth of 2-3cm. Collect in an appropriate sealable container for disposal in an approved landfill. Decontaminate spill surfaces and equipment with 10% sodium hydroxide (caustic soda).

SECTION 7: Handling and Storage

Store the material in a well-ventilated, secure area out of reach of children and domestic animals and away from sources of heat or ignition. Do not store with food or drink. Wash thoroughly with soap and water after handling.

Stores containing 100 litres or more require secondary containment, and emergency response plans. Storage must be in accordance with NZS 8409 Management of Agrichemicals.

SECTION 8: Exposure Control/Personal Protection

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND TRANSPORT OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Ingestion: Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure to the material, Wash thoroughly with soap and water after handling.

Eye Contact: Where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Skin Contact: Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

Inhalation: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits.

SECTION 9: Physical and Chemical Properties

Appearance:	off white liquid
Odour:	slight
pH:	6.0 – 7.5 [1% emulsion]
Flash Point:	non flammable
Specific gravity:	1.07
Solubility in water:	emulsifiable

SECTION 10: Stability and Reactivity

Stability:	Stable
Materials to avoid:	Strong acids / alkalis
Hazardous Polymerisation:	Will not occur

SECTION 11: Toxicological Information

Diazinon is a cholinesterase inhibitor. Symptoms of poisoning include: weakness, headache, blurred vision, tightness of chest nausea, salivating, sweating, vomiting, diarrhoea and abdominal cramps.

Acute Toxicity:	Oral:	LD50 (rat) ca 1,200 mg/kg (Diazinon)
Acute Toxicity:	Dermal:	LD50 (rabbit) >2,000 mg/kg (Diazinon)
Acute Toxicity:	Inhalation:	LD50 (rat) 1,600 mg/m ³ 4h. (Diazinon)

Skin:	Irritant
Eye:	Irritant
Carcinogenicity:	non carcinogenetic
Reproductive toxicity:	Suspected reproductive / developmental toxicant

SECTION 12: Environmental Information

Toxic to birds. Keep domestic poultry off treated areas for 7 days.
Mobility / degradation: Mobility low. DT50: 2 – 4 days
Acute toxicity: Fish: LC50 16 mg/l (96 h), Rainbow trout: 2.6 – 3.2 mg/l
Bluegill sunfish: LC50: 0.2 µg/l (48 h.)
Daphnia:
Very toxic to bees.

SECTION 13: Disposal Considerations

If possible use according to label recommendations. Dispose of product and residues according to regional or local body bylaws.
Container disposal: Triple rinse container and add rinsate to tank . If drums are steam cleaned they may be recycled, otherwise puncture and bury in a suitable land fill.

SECTION 14: Transport Information

UN Number: 3082
UN Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, (diazinon 50%)
Dangerous Goods Class: 9:
UN Packing Group: III
Marine Pollutant: yes
Do not carry more than 10 litres on a public passenger transport vehicle.

SECTION 15: Regulatory Information

Registered pursuant to the ACVM Act 1997, No P7205
See www.nzfsa.govt.nz/acvm for registration conditions.

Approved pursuant to HSNO Act 1996, No HR000180
See www.ermanz.govt.nz for approval conditions

Note: The information contained herein is given in good faith, but no warranty, expressed or implied, is made.
Consult Grosafe Chemicals Ltd. for further information.