

SAFETY DATA SHEET

HORTCARE™ COMMEND

SECTION 1: Identification of the substance and supplier

Product name: HORTCARE Commend
Recommended Use: Horticultural insecticide

Company: Grosafe Chemicals Ltd.
Address: 20 Jean Batten Drive, Mt Maunganui. (P.O. Box 14450, Tauranga, 3143)
Email: info@grosafe.co.nz
Telephone Toll Free Number:
Emergency Telephone Number: 0800 CHEMCALL (0800 243622)
(EMERGENCIES ONLY) The National Poisons Centre (0800 POISON (0800 764 766)

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SECTION 2: Hazards Identification

HSNO Hazard Classification: 6.1D, harmful by ingestion, 6.7B, suspected carcinogen, 6.8B, suspected reproductive toxicant, 6.9B harmful to human target organs, 9.1A, very toxic to aquatic organisms, 9.2C harmful to soil organisms, 9.3C harmful to terrestrial vertebrates, 9.4C harmful to terrestrial invertebrates



SECTION 3: Composition/information on ingredients

<u>Ingredients</u>	<u>CAS Number</u>	<u>Content</u>
thiacloprid	(CAS# 38641-94-0)	480 g/l

SECTION 4: First Aid Measures

In case of poisoning by any route contact a doctor or Poisons Information Centre.

Swallowed: If large quantities are ingested, drink plenty of water. Do not induce vomiting. Immediately contact a doctor or Poisons Information Centre.

Eye: Flush eyes with large quantities of water for 15 minutes. Seek medical advice.

Skin: If contact occurs remove contaminated clothing and wash affected areas thoroughly with soap and water. Consult a doctor if irritation persists.

Inhaled: Move affected person to fresh air and keep at rest until recovered.

Advise to Doctor: No specific antidote is available. If poisoning is suspected apply symptomatic therapy. Gastric lavage should be considered for significant ingestions within the first 2 hours. Administration of activated charcoal and sodium sulphate. Contact The National Poisons Centre (0800 POISON (0800 764 766) for more information.

SECTION 5: Fire Fighting Measures

Dangerous Goods Class:	None allocated
Extinguishing media:	Fine water spray or foam.
Unsuitable extinguishing media:	None
Special exposure hazards:	None
Fire and Explosive Properties:	May form hazardous decomposition products
Flammability:	Non-flammable

SECTION 6: Accidental Release Measures

In Case of Spill or Leak: Control the spill at its source. Contain the spill to prevent it from spreading, contaminating soil, or entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with water plus detergent. Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposal.

SECTION 7: Handling and Storage

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

SECTION 8: Exposure Control/Personal Protection

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING, TRANSPORT AND STORAGE 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:	White / beige liquid
Odour:	Negligible
pH:	ca. 7.0
Boiling Point:	ca. 100 °C.
Flammable (Explosive) Limits:	Non flammable
Explosive Properties:	Not explosive
Oxidizing Properties:	Not an oxidizing agent
Vapour Pressure:	3×10^{-7} mPa at 20° C (<i>thiacloprid</i>)
Relative density:	1.15 – 1.2 g/cm ³
Solubility:	Forms a suspension

SECTION 10: Stability and Reactivity

Stability:	Stable
Conditions to avoid:	Extreme heat / freezing
Materials to avoid:	Acids / alkalis
Hazardous Decomposition Products:	May be formed at high temperatures
Hazardous Polymerisation:	Will not occur

SECTION 11: Toxicological Information

Inhalation Harmful by inhalation.

Skin contact Not expected to irritate the skin. Skin sensitiser.

Eye contact Not expected to irritate the eyes.

Ingestion Harmful if swallowed.

ANIMAL TOXICITY DATA – *PRODUCT*

Acute:

Oral toxicity LD50 rat 300 - 500 mg/kg (*similar product*)

Dermal toxicity LD50 rat: , 4000 mg/kg (*similar product*)

Inhalation toxicity LC50 (4 h) rat: 0.9 - 2.2 mg/L (as an aerosol) (*similar product*)

Skin irritation Not irritating (rabbit) (*similar product*)

Eye irritation Not irritating (rabbit) (*similar product*)

Sensitisation Sensitising (guinea pig) (*similar product*)

Chronic:

In animal studies with thiacloprid active ingredient there was limited evidence of a carcinogenic potential and a possible risk of harm to the unborn child. These effects occurred in animals only at high doses and are not considered predictive of similar effects in humans. Thiacloprid was not mutagenic, and was not neurotoxic in animal studies.

SECTION 12: Environmental Information

Very highly toxic to certain aquatic invertebrates. Thiacloprid was generally of low acute toxicity to birds, slightly toxic to algae, moderately to slightly toxic to earthworms, and moderately to relatively non-toxic to honeybees. Thiacloprid may adversely affect some beneficial insects in worse case situations.

Ecotoxicity Thiacloprid tech.

Fish toxicity:

LC50: 30.5 mg/L (96 h); rainbow trout (*Oncorhynchus mykiss*)

LC50: 25.2 mg/L (96 h); bluegill sunfish (*Lepomis macrochirus*)

Aquatic invertebrate toxicity:

EC50: 24.5 µg/L (96 h); amphipod (*Hyalella azteca*)

EC50: 2.18 µg/L (28 day) midge (*Chironomus riparius*)

EC50: 85.1 mg/L (48 h) *Daphnia magna*

SECTION 12: Environmental Information (cont.d)

Algae toxicity:

LC50: 96.7 mg/L (72 h); green algae (*Desmodesmus subspicatus*)

Bird toxicity:

Acute oral LD50: 49 mg/kg; Japanese quail

Acute oral LD50: 2716 mg/kg; bobwhite quail

Environmental fate, persistence and degradability, mobility

Thiacloprid has medium to low mobility in soils. DT50 (6 soils) was 7-21 days. Mean Koc 615 (6 soils).

Thiacloprid has a low potential for bioconcentration or bioaccumulation.

SECTION 13: Disposal Considerations

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to regional or local body bylaws.

SECTION 14: Transport Information

UN number	2902
Proper shipping name	PESTICIDE, LIQUID, TOXIC, N.O.S. (contains thiacloprid)
Class and Subsidiary Risk	6.1 (No subsidiary risk)
Packing Group	III
Hazchem code	2X
Marine Pollutant	Yes

SECTION 15: Regulatory Information

HORTCARE COMMEND is a registered product under the ACVM Act 1997 P8684

See www.nzfsa.govt.nz for registration conditions.

HORTCARE COMMEND IS APPROVED PURSUENT TO HSNO Act 1996, Approval Code HSR000715

See www.epa.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.