



SAFETY DATA SHEET
VANTACOR™ insect control

SDS #: FO004347-1-A
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Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name VANTACOR™ insect control
Product Code(s) FO004347-1-A
Active Ingredient(s) Chlorantraniliprole
Chemical Family Diamide
Recommended Use: Insecticide for broadacre
Restrictions on use Use as recommended by the label.
Manufacturer FMC Australasia Pty Ltd
Building B' Level 2, 12 Julius Avenue,
NORTH RYDE, NSW 2113
Australia
Telephone: 1800 066 355 (Customer service 1800 901 939)
Telefax: 1800 355 896
Emergency telephone Medical Emergencies: 1 800 033 111 (Transport and 24 h Medical information)
For leak, fire, spill or accidents: 1800 033 111 (Ixon)

Section 2: HAZARDS IDENTIFICATION

GHS Classification

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS)

Label Elements

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS)

Other Information

None known

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature Mixture.

Chemical name	CAS-No	Weight percent
Chlorantraniliprole	500008-45-7	47.85
Propylene glycol	57-55-6	2 - 7
Alkylated naphthalene sulfonate sodium salt	68425-94-5	1 - 5

Section 4: FIRST AID MEASURES

Inhalation No specific intervention is indicated as the compound is not likely to be hazardous. Consult a doctor or Poisons Information Center if necessary.

Skin Contact	No specific intervention is indicated as the compound is not likely to be hazardous. Consult a doctor if necessary.
Eye Contact	The material is not likely to be hazardous by eye contact, but flushing the eye if contact occurs is advisable. Consult a physician if necessary.
Ingestion	No specific intervention is indicated as the compound is not likely to be hazardous. Consult a doctor or Poisons Information Centre if necessary.
Most important symptoms and effects, both acute and delayed	None known.
Indication of immediate medical attention and special treatment needed, if necessary	It may be helpful to show this safety data sheet to physician. Notes to doctor: A specific antidote for exposure to this material is not known. Gastriclavage and/or the administration of activated charcoal can be considered. After decontamination, treatment should be directed at the control of symptoms and the clinical condition.

Section 5: FIREFIGHTING MEASURES

Explosive properties	Not explosive.
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	Avoid heavy hose streams.
Small Fire	Dry chemical. Carbon dioxide (CO ₂).
Large Fire	Water spray. Foam.
Specific Hazards Arising from the Chemical	None known.
Hazardous Combustion Products	The essential breakdown products are volatile, toxic, irritant and inflammable compounds such as nitrogen oxides, hydrogen chloride, hydrogen bromide, sulfur dioxide, carbon monoxide, carbon dioxide and various chlorinated and brominated organic compounds.
Protective equipment and precautions for firefighters	Wear self-contained breathing apparatus and protective suit Use water spray to cool fire exposed surfaces and protect personnel. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate and post spill area. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8.
Other	For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.
Environmental Precautions	Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains. Keep out of waterways.
Methods for Containment	Nearby surface water drains should be covered. Minor spills on the floor or other impervious surface should immediately be swept up or preferably vacuumed up using equipment with high efficiency final filter. Transfer to suitable containers. Clean area with detergent and water. Do not let wash liquid enter drains or waterways. Absorb wash liquid with an inert absorbent such as universal binder, Fuller's earth, bentonite or other absorbent clay and collect in suitable containers. The used containers should be properly closed and labelled.

Methods for cleaning up Pick up and transfer to properly labelled containers. See section 8 for personal protection. Dispose of waste as indicated in Section 13.

Section 7: HANDLING AND STORAGE

Handling Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

Storage Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Keep/store only in original container.

Packaging material Must only be kept in original packaging.

Materials to avoid Strong oxidising agents, Strong acids, Strong bases.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Component	China	Japan	Korea	Australia	Taiwan
Propylene glycol 57-55-6 (2 - 7)				TWA 150 ppm TWA 474 mg/m ³ TWA 10 mg/m ³	

Engineering measures Apply technical measures to comply with the occupational exposure limits (if listed above). When working in confined spaces (tanks, containers, etc.), make sure there is an adequate source of air for breathing and wear the recommended equipment. Ventilate all transport vehicles prior to discharge.

Personal protective equipment

Respiratory Protection No specific respiratory protection required during product use.

Hand Protection No specific hand protection is required.

Eye/Face Protection No specific eye and face protection required during product use.

Skin and Body Protection No specific skin and body protection required during product use.

Hygiene measures Clean water, preferably an eyewash station and a safety shower, should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household laundry.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid

Appearance Liquid suspension

Odour like soap, Neutral

Colour White

Odour threshold No information available

pH 5.2 (1% w/v aqueous dispersion)

Melting point/freezing point No information available

Boiling point/boiling range No information available

Flash point > 100 °C / > 212 °F

Evaporation Rate No information available

Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit: No information available

Lower flammability limit No information available

Vapour pressure No information available

Vapour density No information available

Specific gravity	No information available
Water solubility	Suspension in water
Solubility(ies)	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity, kinematic	No information available
Viscosity, dynamic	325.5 centistokes at 23.1°C 274.6 centistokes at 43.5°C
Explosive properties	Not explosive
Oxidising properties	Based on known chemistry, neither the active ingredients nor the inert ingredients are considered to be either strong oxidizing or reducing agents
Molecular weight	No data available
Density	1.2623 g/ml (23.3°C)
Bulk density	No data available

Section 10: STABILITY AND REACTIVITY

Reactivity	None under normal use conditions
Stability	Stable under recommended storage conditions
Hazardous reactions	None under normal processing.
Hazardous polymerisation	Hazardous polymerization does not occur.
Conditions to Avoid	Heating can release hazardous gases.
Incompatible products	Strong oxidising agents, Strong acids, Strong bases.

Hazardous Decomposition Products See Section 5 for more information.

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Numerical measures of toxicity - Product Information

LD50 Oral	> 5000 mg/kg (rat)
LD50 Dermal	> 5000 mg/kg (rat)
Inhalation LC50	> 5.16 mg/l (rat) 4 hr
Skin corrosion/irritation	Rabbit: Slightly irritating.
Serious eye damage/eye irritation	Rabbit: Minimally irritating.
Sensitisation	Non-sensitizing (mice-LLNA).

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Mutagenicity	The product contains no ingredients known to be mutagenic.
Carcinogenicity	There are no known carcinogenic chemicals in this product
Reproductive toxicity	The product contains no ingredients known to have adverse effects on reproduction.
STOT - single exposure	No specific effects after single exposure have been observed.
STOT - repeated exposure	Chlorantraniliprole: No toxicologically significant effects were found.
Target organ effects	No information available.
Symptoms	None known.
Aspiration hazard	The product does not present an aspiration pneumonia hazard.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life.

The following has been measured on the active ingredient chlorantraniliprole:

- Fish:

Rainbow trout (*Oncorhynchus mykiss*) = 96-h LC₅₀: > 13.8 mg/L
 Sheepshead minnow (*Cyprionodon variegatus*) = 36-day NOEC: 1.28 mg/L

- Invertebrates:

Daphnids (*Daphnia magna*) = 48-h LC₅₀: 0.0116 mg/L
 Daphnids (*Daphnia magna*) = 21-day NOEC: 0.00447 mg/L

- Algae:

Green algae (*Pseudokirchneriella subcapitata*) = 120-h EC₅₀: > 2 mg/L

- Plants:

Duckweed (*Lemna gibba*) = 14-day EC₅₀: > 2 mg/L
 Duckweed (*Lemna gibba*) = 14-day NOEC: 2 mg/L

- Birds:

Bobwhite quail (*Colinus virginianus*) = LD₅₀: > 2250 mg/kg

- Earthworms:

(*Eisenia fetida*) = 14-day LC₅₀: > 1000 mg/kg dry soil

- Insects:

Bees (*Apis mellifera*) = 72-h LD₅₀, contact: > 4 ug/bee
 Bees (*Apis mellifera*) = 48-h LD₅₀, oral: > 104 ug/bee.

Persistence and degradability	Chlorantraniliprole is persistent in soil, water and sediments. Not readily biodegradable.
Bioaccumulation	Bioaccumulation is unlikely.
Mobility	Chlorantraniliprole is not expected to be mobile in soils.
Other Adverse Effects	No information available.

Section 13: DISPOSAL CONSIDERATIONS

Waste disposal methods	Remaining quantities of the material and empty but unclean packaging should be regarded as hazardous waste. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.
Contaminated Packaging	Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

Section 14: TRANSPORT INFORMATION

IMDG/IMO

UN/ID no 3082
 Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s (Chlorantraniliprole)
 Hazard class 9
 Packing Group III
 EmS F-A, S-F
 Environmental Hazards Marine Pollutant

ICAO/IATA

UN/ID no 3082
 Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s (Chlorantraniliprole)
 Hazard class 9
 Packing Group III
 Environmental Hazards Marine Pollutant

ADG

Not classified as dangerous goods according to the ADG Code

Section 15: REGULATORY INFORMATION

International Inventories

SUSMP: Unscheduled poison.

A food, food additive, drug, cosmetic, or device, when manufactured, processed or distributed in commerce for use as a food, food additive, drug, cosmetic, or device may not be subject to local notification requirements. Check local regulations for more information.

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Propylene glycol 57-55-6	X	X	X	X	X	X	X	X
Alkylated naphthalene sulfonate sodium salt 68425-94-5	X	X			X		X	X

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

Section 16: OTHER INFORMATION

Prepared By FMC Corporation

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End of Safety Data Sheet