

SAFETY DATA SHEET



Coragen insecticide

Version 1.0

Revision Date 03.01.2018

Document no. 130000027866

This SDS adheres to the standards and regulatory requirements of New Zealand and may not meet the regulatory requirements in other countries.

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : Coragen insecticide

Recommended use of the chemical and restriction on use

Recommended use : Insecticide

Manufacturer, importer, supplier

Company : Cheminova New Zealand Ltd

Street address : 141 Powderham Street, New Plymouth City Centre, New Plymouth, Taranaki, 4310, NZ

Telephone : 0800 658080

Telefax : (09)-271-2961

Emergency telephone number : NZ Poisons Information Centre Ph: 0800 764766
24-hour Medical Emergency: 0800 111174 Transport Emergency: 0800 387668

2. HAZARDS IDENTIFICATION

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001
Classified as a Dangerous Good according to NZS 5433

HSNO Classification:

9.1A : Aquatic toxicity (Acute or Chronic)

Endpoints which are not classified, cannot be classified or are not applicable are not shown.

Label content

Pictogram :



Signal word : Warning

Hazardous warnings : Very toxic to aquatic life with long lasting effects.

Precautionary statements : Collect spillage.
Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Components

Chemical Name	CAS-No.	Concentration
Chlorantraniliprole	500008-45-7	18.4 %

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Other Ingredients

81.6 %

4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. Contact the National Poisons Centre 0800 POISON (0800 764766) or a doctor if you feel unwell.

- | | | |
|--|---|--|
| Inhalation | : | No hazards which require special first aid measures. Consult a physician after significant exposure. |
| Skin contact | : | No hazards which require special first aid measures. If on skin, rinse well with water. Wash contaminated clothing before re-use. |
| Eye contact | : | If easy to do, remove contact lens, if worn. Hold eye open and rinse slowly and gently with water for 15-20 minutes. If eye irritation persists, consult a specialist. |
| Ingestion | : | No hazards which require special first aid measures. Consult a physician if necessary. |
| Most important symptoms/effects, acute and delayed | : | No information available. |
| Protection of first-aiders | : | No information available. |
| Notes to physician | : | Treat symptomatically. |

5. FIREFIGHTING MEASURES

- | | | |
|---|---|---|
| Suitable extinguishing media | : | Water spray, Foam, Dry chemical, Carbon dioxide (CO2) |
| Unsuitable extinguishing media | : | High volume water jet, (contamination risk) |
| Specific hazards | : | The product is not flammable. |
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus. Wear full protective equipment. |
| Specific extinguishing methods | : | No information available. |
| Further information | : | Prevent fire extinguishing water from contaminating surface water or the ground water system. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
(on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray.
Control Runoff. |
| Hazchem Code | : | .3Z |

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6. ACCIDENTAL RELEASE MEASURES

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|---|---|--|
| Personal precautions, protective equipment and emergency procedures | : | Evacuate personnel to safe areas. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Wear suitable protective equipment. |
| Environmental precautions | : | Prevent material from entering sewers, waterways, or low areas. |
| Methods and materials for containment and cleaning up | : | Clean-up methods - small spillage Soak up with inert absorbent material. Sweep up or vacuum up spillage and collect in suitable container for disposal.
Clean-up methods - large spillage Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Large spills should be collected mechanically (remove by pumping) for disposal. Collect leaking liquid in sealable (metal/plastic) containers. Collect and contain contaminated absorbent and dike material for disposal. |
| Additional advice | : | Never return spills in original containers for re-use. Dispose of in accordance with local regulations. |

7. HANDLING AND STORAGE

Handling

- | | | |
|--------------------------------|---|---|
| Technical measures/Precautions | : | Do not breathe spray mist. When using do not eat, drink or smoke. Keep out of reach of children. |
| Precautions for safe handling | : | Keep away from heat and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Avoid dust formation in confined areas.
The product is not flammable. |

Storage

- | | | |
|-----------------------------|---|---|
| Suitable storage conditions | : | Store in original container. Keep container tightly closed. Store in a cool dry area away from feed, seed or fertilizer. Keep away from food and drink. Store locked up.

Storage period: Stable under recommended storage conditions.

Storage period: Storage temperature: > 0 °C |
|-----------------------------|---|---|

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

No information available.

- | | | |
|---|---|---|
| Engineering measures | : | Ensure adequate ventilation, especially in confined areas. Use sufficient ventilation to keep employee exposure below recommended limits. |
| Biological occupational exposure limits | : | No information available. |

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Personal protective equipment

Respiratory protection	: None specified.
Hand protection	: None specified.
Eye protection	: None specified.
Skin protection	: None specified.
Hygiene measures	: Avoid breathing spray mist. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (Physical state, form, colour, etc.)

Physical state	: liquid
Form	: liquid, suspension
Colour	: white

Odour : alcohol-like

Odour Threshold : No information available.

pH : 5 - 9 (10 g/l)

Melting point/freezing point

Freezing point : -6 °C

Initial boiling point and boiling range

No information available.

Flash point : > 100 °C
No flash up to boiling point.

Evaporation rate : No information available.

Flammability (solid, gas) : The product is not flammable.

Upper/lower flammability or explosive limits

Upper explosion limit	: No information available.
Lower explosion limit	: No information available.

Vapour pressure : No information available.

Vapour density : No information available.

Density

Specific gravity : 1.08 - 1.10
(Relative density)

Solubility(ies)

Water solubility	: No information available.
Solubility in other solvents	: slightly soluble

Partition coefficient: n-
octanol/water : No information available.

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Auto-ignition temperature

No information available.

Decomposition temperature : No information available.

Viscosity

Viscosity, kinematic : No information available.

Viscosity, dynamic : Not available for this mixture.

Molecular weight : No information available.

10. STABILITY AND REACTIVITY

Reactivity : No information available.

Chemical stability : The product is chemically stable under recommended conditions of storage, use and temperature.
Stable at normal temperatures and storage conditions.

Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use. Polymerization will not occur.

Conditions to avoid : Temperature: < 0
To avoid thermal decomposition, do not overheat. Protect from frost.

Materials to avoid : No materials to be especially mentioned.

Hazardous decomposition products : Nitrogen oxides, carbon monoxide and unidentified organic compounds may be formed upon combustion.

11. TOXICOLOGICAL INFORMATION**Acute toxicity****Oral**

Coragen insecticide : LD50/Rat: > 5,000 mg/kg

InhalationCoragen insecticide : LC50/4 h/Rat(dust/mist): > 2 mg/l
The substance or mixture has no acute inhalation toxicity**Dermal**

Coragen insecticide : LD50/Rat: > 5,000 mg/kg

Skin corrosion/irritationCoragen insecticide : Species: Rabbit
Result: No skin irritation**Serious eye damage/eye irritation**Coragen insecticide : Species: Rabbit
Result: No eye irritation**Respiratory or skin sensitisation**Coragen insecticide : Species: mice
Result: Animal test did not cause sensitization by skin contact.**Germ cell mutagenicity**

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Chlorantraniliprole	:	Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Carcinogenicity		
Chlorantraniliprole	:	Animal testing did not show any carcinogenic effects. Not classifiable as a human carcinogen.
Reproductive toxicity		
Chlorantraniliprole	:	Reproductive toxicity: No toxicity to reproduction Animal testing showed no reproductive toxicity. Teratogenicity: Animal testing showed no developmental toxicity.
Specific Target Organ Toxicity		
Specific target organ toxicity - repeated exposure		
Coragen insecticide	:	Refer to acute toxicity and/or repeated dose toxicity data for more information on target organs if applicable.
Aspiration hazard		
No information available.		
Other		
Chlorantraniliprole	:	Repeated dose toxicity: Oral/multiple species No toxicologically significant effects were found. Dermal/Rat No toxicologically significant effects were found.

12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Acute and prolonged toxicity to fish

Coragen insecticide : LC50/96 h/Lepomis macrochirus (Bluegill sunfish): > 9.9 mg/l

Toxicity to aquatic plants

Coragen insecticide : ErC50/72 h/Pseudokirchneriella subcapitata (green algae): > 20 mg/l

Acute toxicity to aquatic invertebrates

Coragen insecticide : EC50/48 h/Daphnia magna (Water flea): 0.035 mg/l

Soil Ecotoxicity

Toxicity to soil dwelling organisms

Coragen insecticide : LC50/14 d/Eisenia fetida (earthworms): > 1,000 mg/kg
Method: OECD Test Guideline 207
Information source: Internal study report, (Data on the product itself)**Terrestrial Vertebrate and Invertebrate Ecotoxicity**Coragen insecticide : LD50/Colinus virginianus (Bobwhite quail): > 2,000 mg/kg
Method: US EPA Test Guideline OPPTS 850.2100
Information source: Internal study report, (Data on the product itself)
LD50/48 h/Apis mellifera (bees):
Method: OECD Test Guideline 213
Oral, Information source: Internal study report, (Data on the product itself)

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LD50/48 h/Apis mellifera (bees):
Method: OECD Test Guideline 214
Contact, Information source: Internal study report, (Data on the product itself)

Persistence and degradability

Coragen insecticide : Not readily biodegradable. Estimation based on data obtained on active ingredient.

Bioaccumulation

Coragen insecticide : Does not bioaccumulate. Estimation based on data obtained on active ingredient.

Mobility in soil

No information available.

Other adverse effects

Coragen insecticide : Environmental Hazards: Do not apply directly to water. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. See product label for additional application instructions relating to environmental precautions.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods : Do not reuse empty container.

Contaminated packaging : Triple rinse containers. Add rinsings to spray tank. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, burn if circumstances permit otherwise bury in an approved landfill. Dispose of this product only by using according to this label.

14. TRANSPORT INFORMATION

NZS 5433

UN number : 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorantraniliprole)
Class : 9
Packing group : III

IMDG

UN number : 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorantraniliprole)
Class : 9
Packing group : III
Marine pollutant : yes

IATA

UN number : 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorantraniliprole)
Class : 9
Packing group : III

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Matters needing attention for transportation : Marine Pollutants in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code and IATA special provision A197. If the product meets these special provisions, it may be shipped in New Zealand as a non-dangerous goods under provisions in NZS 5433 code which accepts IMDG and IATA classification.

15. REGULATORY INFORMATION

HSNO Number : HSR007969

HSNO Controls : E1, E2, E5, E6, E7
I1, I3, I9, I11, I19, I21, I23, I29
P1, P3, P15, PG3
D5, D6, D7, D8
EM1, EM7, EM8, EM11, EM12, EM13, AH1

ACVM Number : P7832

16. OTHER INFORMATION

References
SDS Number: 130000027866

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Date of first preparation : 03.01.2018
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Version : 2.0

Significant change from previous version is denoted with a double bar.

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