

SAFETY DATA SHEET



Exirel insecticide

Version 1.0

Revision Date 01.07.2018

Document no. 130000050443

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 : Exirel insecticide

Other names : B12901327

Recommended use of the chemical and restriction on use

Recommended use : Insecticide

Manufacturer, importer, supplier

Company : FMC New Zealand Limited

Street address : 6 Clayton Street, Newmarket, Auckland 1023

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:

6.3A : Skin irritation
6.5B : Skin sensitisation
6.9B : Specific Target Organ Toxicity
9.1A : Aquatic toxicity (Acute or Chronic)
9.4B : Ecotoxic to terrestrial invertebrates
:

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

Label content

Pictogram :



Signal word : Warning

Hazardous warnings : Causes skin irritation.
May cause an allergic skin reaction.
Very toxic to aquatic life with long lasting effects.
Toxic to terrestrial invertebrates.
May cause damage to organs through prolonged or repeated exposure. (Liver, Thyroid)

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Precautionary statements : Do not eat, drink or smoke when using this product.
 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
 Wash skin thoroughly after handling.
 Contaminated work clothing should not be allowed out of the workplace.
 Wear protective gloves.
 IF ON SKIN: Wash with plenty of soap and water.
 Get medical advice/ attention if you feel unwell.
 Specific treatment (see supplemental first aid instructions on this label).
 If skin irritation or rash occurs: Get medical advice/ attention.
 Take off contaminated clothing and wash before reuse.
 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
Cyantraniliprole	736994-63-1	10.2 %
Other Ingredients		89.8 %

4. FIRST AID MEASURES

Never give anything by mouth to an unconscious person.
 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 : Move to fresh air. Artificial respiration and/or oxygen may be necessary. Call a poison control center or doctor for treatment advice.

Skin contact : Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Eye contact : Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Ingestion : Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Do not give anything by mouth to an unconscious person.

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

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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. Use personal protective equipment.
Specific extinguishing methods	: No information available.
Further information	: (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.
Hazchem Code	: .3Z

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus. Use personal protective equipment. Avoid contact with skin.
Environmental precautions	: Prevent material from entering sewers, waterways, or low areas.
Methods and materials for containment and cleaning up	: Soak up with sawdust, sand, oil dry or other absorbent material. Dispose of in an approved container. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum.
Additional advice	: Dispose of in accordance with local regulations. Dispose of wastes in an approved waste disposal facility.

7. HANDLING AND STORAGE

Handling

Technical measures/Precautions	: Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.
Precautions for safe handling	: The product is not flammable.

Storage

Suitable storage conditions	: Store product in original container only in a location inaccessible to children and pets. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Not for use or storage in or around the home. Keep out of the reach of children. Store in original container. Keep tightly closed. Advice on common storage: No special restrictions on storage with other products.
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Document no. 130000050443

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.

Biological occupational exposure limits : No information available.

Personal protective equipment

Respiratory protection : Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge.

Hand protection : Material: Protective gloves
Wash hands thoroughly after handling.

Eye protection : Wear protective eyewear to prevent contact with this substance.

Skin protection : When mixing or applying wear:
hat, overalls, Footwear (shoes, boots).

Hygiene measures : Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state : liquid
Form : liquid
Colour : off-white

Odour : mild phenol-like

Odour Threshold : No information available.

pH : 5.6 (10 g/l)

Melting point/freezing point

Melting point/range : Not available for this mixture.

Initial boiling point and boiling range

Boiling point/boiling range : 97 °C

Flash point : No flash up to boiling point.

Evaporation rate : No information available.

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

Exirel insecticide

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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 : 0.982

(Relative density)

Solubility(ies)

Water solubility : emulsifiable

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

Auto-ignition temperature

Auto-ignition temperature : 358 °C

Decomposition temperature : No information available.

Viscosity

Viscosity, kinematic : No information available.

Viscosity, dynamic : 454 mPa.s
50 rpm

Molecular weight : No information available.

10. STABILITY AND REACTIVITY

Reactivity : No information available.

Chemical stability : Stable at normal temperatures and storage conditions.

Possibility of hazardous reactions : No information available.

Conditions to avoid : Protect from frost.

Materials to avoid : No materials to be especially mentioned.

Hazardous decomposition products : No information available.

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Oral

Exirel insecticide : LD50/multiple species: > 5,000 mg/kg

Inhalation

Exirel insecticide : LC50/4 h/Rat(dust/mist): > 2.4 mg/l

The substance or mixture has no acute inhalation toxicity

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Dermal Exirel insecticide	:	LD50/Rat: > 5,000 mg/kg
Skin corrosion/irritation Exirel insecticide	:	Species: Rabbit Result: Irritating to skin.
Serious eye damage/eye irritation Exirel insecticide	:	Species: Rabbit Result: No eye irritation Minimal effects that do not meet the threshold for classification.
Respiratory or skin sensitisation Exirel insecticide	:	Species: Guinea pig Result: May cause sensitisation by skin contact.
Germ cell mutagenicity Cyantraniliprole	:	Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Evidence suggests this substance does not cause genetic damage in animals.
Carcinogenicity Cyantraniliprole	:	Not classifiable as a human carcinogen. Animal testing did not show any carcinogenic effects.
Reproductive toxicity Cyantraniliprole	:	Reproductive toxicity: No toxicity to reproduction Animal testing showed no reproductive toxicity. Teratogenicity: Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.
Specific Target Organ Toxicity Specific target organ toxicity - single exposure Cyantraniliprole	:	The substance or mixture is not classified as specific target organ toxicant, single exposure.
Specific target organ toxicity - repeated exposure Exirel insecticide	:	Refer to acute toxicity and/or repeated dose toxicity data for more information on target organs if applicable.
Aspiration hazard Cyantraniliprole	:	No aspiration toxicity classification
Other Cyantraniliprole	:	Repeated dose toxicity: The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions. Oral/Rat 28 - 90 d Thyroid effects, Organ weight changes, No effect to neurotoxicity. Dermal/Rat 28 d No toxicologically significant effects were found. Oral/Mouse 90 d No toxicologically significant effects were found. Oral/Dog 90 d altered blood chemistry, Liver effects, Vascular arteritis

Exirel insecticide

Version 1.0

Revision Date 01.07.2018

Document no. 130000050443

Oral/multiple species 28 d
 Immune System, No toxicologically significant effects were found.
 Oral/Rat 14 d
 No toxicologically significant effects were found.
 Oral/Dog 365 d
 Liver effects, Gallbladder effects, altered blood chemistry, Vascular arteritis
 Inhalation/Rat 28 d
 No toxicologically significant effects were found.

12. ECOLOGICAL INFORMATION
Ecotoxicity effects

Acute and prolonged toxicity to fish

Cyantraniliprole : LC50/96 h/Oncorhynchus mykiss (rainbow trout): > 12.6 mg/l
 LC50/96 h/Lepomis macrochirus (Bluegill sunfish): > 13 mg/l

Toxicity to aquatic plants

Cyantraniliprole : ErC50/72 h/Pseudokirchneriella subcapitata (green algae): > 13 mg/l
 ErC50/7 d/Lemna gibba (duckweed): > 12.1 mg/l

Acute toxicity to aquatic invertebrates

Exirel insecticide : EC50/48 h/Daphnia magna (Water flea): 0.232 mg/l

Chronic toxicity to aquatic Invertebrates

Exirel insecticide : NOEC/21 d/Daphnia magna (Water flea): 0.00969 mg/l

Persistence and degradability

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

Bioaccumulation

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

Mobility in soil

No information available.

Other adverse effects

Exirel insecticide : Environmental Hazards: Do not apply directly to water. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Toxic to bees. Do not apply this product if bees are visiting the treatment area. See product label for additional application instructions relating to environmental precautions.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods : In accordance with local and national regulations. The product should not be allowed to enter drains, water courses or the soil.
 Dispose of in accordance with local regulations.
 Dispose of the product in accordance with label directions.

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Exirel insecticide

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Contaminated packaging : Do not re-use empty containers.
Do not apply directly to water.
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.

14. TRANSPORT INFORMATION

NZS 5433

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

IMDG

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

IATA

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

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 : HSR100857
HSNO Controls : T1, T2, T4, T5, T7
E1, E2, E3, E5, E6, E7
I1, I3, I9, I11, I16, I17, I18, I19, I21, I23, I28, I29
P1, P3, P13, P15, PG3, PS4
D4, D5, D6, D7, D8
EM1, EM6, EM7, EM8, EM11, EM12, EM13

16. OTHER INFORMATION

References
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Revision Date/Version

Date of first preparation	:	03.01.2018
Revision Date	:	01.07.2018
Version	:	2.1

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

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