

**Exirel® insecticide**

Version 1.0

Revision Date 03.01.2018

Document no. 130000050443

This SDS adheres to the standards and regulatory requirements of Australia 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 Australasia Pty Ltd  
Street address : Building B' Level 2, 12 Julius Avenue,  
NORTH RYDE, NSW 2113  
Australia

Telephone : (02) 9923 6111  
Telefax : (02) 9923 6011

**Emergency telephone number** : (02) 9923 6275 (Transport Emergency)  
(24 hr Emergency Medical Information: 1800 674 415)

**2. HAZARDS IDENTIFICATION****Product hazard classification**

Skin corrosion/irritation : Category 2  
Skin sensitisation : Category 1  
Acute aquatic toxicity : Category 1  
Chronic aquatic toxicity : Category 1

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.

Precautionary statements : Avoid breathing 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.  
If skin irritation or rash occurs: Get medical advice/ attention.

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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**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. If poisoning occurs, contact a doctor or Poisons Information Centre. In Australia 13 11 26.

- 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**

- Suitable extinguishing media** : Water spray, Foam, Dry chemical, Carbon dioxide (CO<sub>2</sub>)
- 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.

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**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.

**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.

**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 : Keep containers tightly closed in a cool, well-ventilated place. 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.

Advice on common storage: No special restrictions on storage with other products.

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.

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**Biological occupational exposure limits** : No information available.

**Personal protective equipment**

Respiratory protection : None specified.

Hand protection : Material: Chemical-resistant gloves  
When opening the container, preparing spray and using the prepared spray:

Eye protection : No information available.

Skin protection : When opening the container, preparing spray and using the prepared spray:  
Wear cotton overalls buttoned to the neck and wrist (or equivalent clothing).

**Hygiene measures** : Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wash thoroughly and put on clean clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

**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.

**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

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(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: &gt; 5,000 mg/kg

Inhalation

DuExirel® insecticide : LC50/4 h/Rat(dust/mist): > 2.4 mg/l  
The substance or mixture has no acute inhalation toxicity

Dermal

Exirel® insecticide : LD50/Rat: &gt; 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

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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  
 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.

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**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**

No information available.

**Bioaccumulation**

No information available.

**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** : Dispose of in accordance with local regulations.

**Contaminated packaging** : Do not re-use empty containers.  
 Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on-site. If not recycling, break, crush, or puncture, and bury empty containers in a local authority landfill. If recycling, replace cap and return clean containers to recycler or designated collection point. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

**14. TRANSPORT INFORMATION****ADG**

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

# SAFETY DATA SHEET



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Hazchem Code : .3Z

### **IMDG**

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

### **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 : Not dangerous goods under ADG code when being transported in IBCs or other receptacles < 500 kg (Special Provision AU01). 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.

## **15. REGULATORY INFORMATION**

SUSMP: Schedule 5  
APVMA Approval number: 64103

## **16. OTHER INFORMATION**

### **References**

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### **Revision Date/Version**

Date of first preparation : 03.01.2018  
Revision Date : 03.01.2018  
Version : 1.0

**READ SAFETY DIRECTIONS BEFORE OPENING OR USING**

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.