

Exirel® 100SE

Version 1.1

Revision Date 2018.07.12

Document no. 130000050443

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

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Chemicals Name** : Exirel® 100SE**Other names** : B12901327**Recommended use of the chemical and restriction on use**

Recommended use : Insecticide

Restrictions on use : Do not use product for anything outside of the above specified uses.

Manufacturer, importer, supplier, representative office

Company : FMC Taiwan Co. Ltd.

Street address : 3F, No. 179, Fuhuiyuan Blvd, Xitun Dist., Taichung, Taiwan

Telephone : +886 (4) 2254 2785

Telefax : +886 4 2254 2831

Emergency telephone number : +886 2 28757525
(in case of chemical spill, fire or poisoning accident)**2. HAZARDS IDENTIFICATION****Product hazard classification**

Skin corrosion/irritation : Category 3

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 mild 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.
Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.
IF ON SKIN: Wash with plenty of water.

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If skin irritation or rash occurs: Get medical advice/ attention.
Take off contaminated clothing and wash it before reuse.
Collect spillage.
Store locked up.
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 (Cyantraniliprole)	736994-63-1	10.2 %
Other Ingredients (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.

First aid measures for different exposure routes

- 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.
- Main symptoms and hazards** : No information available.
- Protection of first-aiders** : No information available.
- Notes to physician** : No information available.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media** : Water spray, Foam, Dry chemical, Carbon dioxide (CO₂)
- Unsuitable extinguishing media** : High volume water jet, (contamination risk)

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| 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. |

6. ACCIDENTAL RELEASE MEASURES

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| 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

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| 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

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| 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.

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

Storage period: Storage temperature: > 0 °C |
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

No occupational exposure limit values are applicable.

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| 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 : 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

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

Skin protection : Wear protective clothing such as gloves, apron, boots, or coveralls, as appropriate.

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.

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® 100SE : LD50/multiple species: > 5,000 mg/kg

Inhalation

Exirel® 100SE : LC50/4 h/Rat(dust/mist): > 2.4 mg/l
The substance or mixture has no acute inhalation toxicity

Dermal

Exirel® 100SE : LD50/Rat: > 5,000 mg/kg

Skin corrosion/irritationExirel® 100SE : Species: Rabbit
Result: Mild skin irritation**Serious eye damage/eye irritation**Exirel® 100SE : Species: Rabbit
Result: No eye irritation

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Minimal effects that do not meet the threshold for classification.

Respiratory or skin sensitisation

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- : 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.

Fatty acids, soya, Me esters

- : Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Animal testing did not show any mutagenic effects. Did not cause genetic damage in cultured bacterial cells. Did not cause genetic damage in cultured mammalian cells. Information given is based on data obtained from similar substances.

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.

Fatty acids, soya, Me esters

- : Reproductive toxicity: Animal testing showed no reproductive toxicity.
Information given is based on data obtained from similar substances.

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.

Fatty acids, soya, Me esters

- : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity - repeated exposure

Cyantraniliprole

- : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Fatty acids, soya, Me esters

- : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

Cyantraniliprole

- : No aspiration toxicity classification

Fatty acids, soya, Me esters

- : The substance or mixture causes concern owing to the assumption that it causes a human aspiration toxicity hazard.

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

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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.

Fatty acids, soya, Me esters : Repeated dose toxicity:
 Ingestion/Rat
 NOAEL: 1,000 mg/kg
 Method: see user defined free text
 No toxicologically significant effects were found., Information given is based on data obtained from similar substances.

12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Acute and prolonged toxicity to fish

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

Fatty acids, soya, Me esters : Method: OECD Test Guideline 203
 Aquatic toxicity is unlikely due to low solubility., Information given is based on data obtained from similar substances.

Toxicity to aquatic plants

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

Fatty acids, soya, Me esters : Method: OECD Test Guideline 201
 No acute toxicity effects at concentrations up to the limit of aqueous solubility, Information given is based on data obtained from similar substances.
 NOEC/72 h/Pseudokirchneriella subcapitata (green algae): > 1 mg/l
 Method: OECD Test Guideline 201
 Information given is based on data obtained from similar substances.

Acute toxicity to aquatic invertebrates

Exirel® 100SE : EC50/48 h/Daphnia magna (Water flea): 0.232 mg/l

Chronic toxicity to aquatic Invertebrates

Exirel® 100SE : NOEC/21 d/Daphnia magna (Water flea): 0.00969 mg/l

Persistence and degradability

Fatty acids, soya, Me esters : Result: rapidly biodegradable
 Information given is based on data obtained from similar substances.

Bioaccumulation

No information available.

Mobility in soil

No information available.

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Other adverse effects

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: 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.

Contaminated packaging : Do not re-use empty containers.

14. TRANSPORT INFORMATION

IMDG

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

IATA

UN number : 3082
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Cyantraniliprole)
Transport hazard class : 9
Packing group : III

Special precaution which a user to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises : Not applicable

15. REGULATORY INFORMATION

Occupational Health & Safety Installation Regulation
Regulation of Labeling and Hazard Communication of Dangerous and Harmful Chemicals
Standards of Permissible Exposure Limits in Workplace
Rules on Road Traffic Safety
Criteria Governing Methods of and Facilities for Storage, Clearance and Disposal of Industrial Wastes
Public Hazardous Materials and Flammable Pressurized Gases Establishment Standards and Safety Control Regulations

16. OTHER INFORMATION

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References

SDS Number: 130000050443

Revision Date/Version

Date of first preparation : 2018.01.03

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Take notice of the directions of use on the label.

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

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