

# SAFETY DATA SHEET



## Cyazypyr™ 100 SE

Version 2.0

Revision Date 02.11.2021

Document no. 130000050443

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

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

**Product name** : Cyazypyr™ 100 SE

**Other names** : B12901327

**Other Product names** : Exirel 10SE

**Recommended use of the chemical and restriction on use**

Recommended use : Insecticide

**Manufacturer, importer, supplier**

Company : FMC Agro Singapore Pte Ltd

Street address : 10 MARINA BOULEVARD #40-01, MARINA BAY FINANCIAL CENTRE  
SINGAPORE 018983

Telephone : +65 3165 2600

**Emergency telephone number** : Medical emergency: + 1 651 632 6793 (Collect)  
For leak, fire, spill or accidents: +(65)-31581349 (CHEMTREC)  
+ 1 703 741-5970 (CHEMTREC – International)

### 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 water.  
If skin irritation or rash occurs: Get medical advice/ attention.  
Take off contaminated clothing and wash it before reuse.  
Collect spillage.  
Dispose of contents/ container to an approved waste disposal plant.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature** : Mixture

#### Components

Chemical name	CAS-No.	Concentration
Cyantraniliprole	736994-63-1	10.2 %
Alkyl Sulfonate Salt		1 - 5%
Other Ingredients		83.8 - 88.8%

### 4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**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** : 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)

**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.

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**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

**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** : 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 occupational exposure limit values are applicable.

**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.

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Hand protection	: Material: Protective gloves Wash hands thoroughly after handling.
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.
<b>Hygiene measures</b>	: 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 (Relative density) : 0.982

**Solubility(ies)**

Water solubility : emulsifiable

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

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### 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

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

#### Inhalation

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

#### Dermal

Cyazypyr™ 100 SE : LD50/Rat: > 5,000 mg/kg

### Skin corrosion/irritation

Cyazypyr™ 100 SE : Species: Rabbit  
Result: Mild skin irritation

### Serious eye damage/eye irritation

Cyazypyr™ 100 SE : Species: Rabbit  
Result: No eye irritation  
Minimal effects that do not meet the threshold for classification.

### Respiratory or skin sensitisation

Cyazypyr™ 100 SE : Species: Guinea pig  
Result: May cause sensitisation by skin contact.

### Germ cell mutagenicity

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Cyantraniliprole : Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Evidence suggests this substance does not cause genetic damage in animals.

Alkyl Sulfonate Salt : Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Evidence suggests this substance does not cause genetic damage in animals. Evidence suggests this substance does not cause genetic damage in cultured mammalian cells. Evidence suggests this substance does not cause genetic damage in cultured bacterial 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.

Alkyl Sulfonate Salt : 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.

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

#### Specific target organ toxicity - repeated exposure

Cyazypyr™ 100 SE : 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  
Alkyl Sulfonate Salt : 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

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Inhalation/Rat 28 d  
No toxicologically significant effects were found.

Alkyl Sulfonate Salt : Repeated dose toxicity:  
Skin contact/Rat  
NOAEL: > 1,000 mg/kg  
Method: OECD Test Guideline 410

## 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

Alkyl Sulfonate Salt : ErC50/96 h/Pseudokirchneriella subcapitata (green algae): > 1,000 mg/l  
Method: see user defined free text

Acute toxicity to aquatic invertebrates

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

Chronic toxicity to aquatic Invertebrates

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

### Persistence and degradability

Alkyl Sulfonate Salt : Result: Not rapidly biodegradable

### Bioaccumulation

No information available.

### Mobility in soil

No information available.

### Other adverse effects

Cyazypyr™ 100 SE : 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

### SS586:Part 1:2008

UN number : 3082

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UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Cyantraniliprole)

Transport hazard class : 9

Packing group : III

### 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

### 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

Workplace Safety and Health Act, WSH (General Provisions) Regulations 2006

Environmental Protection and Management Act, (Cap. 94A) and Environmental Protection and Management (Hazardous substances) Regulations, Reg 4

## 16. OTHER INFORMATION

### References

SDS Number: 130000050443

### Revision Date/Version

Date of first preparation : 03.01.2018

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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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