

# SAFETY DATA SHEET



## Verimark® Insect Control

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### SECTION 1: Identification of the hazardous chemical and of the supplier

#### Product identifier

Product name : Verimark® Insect Control

#### Recommended use of the chemical and restrictions on use

Recommended use : Insecticide

Restrictions on use : Use as recommended by the label.

#### Manufacturer or supplier's details

Principal Supplier : FMC Corporation  
2929 WALNUT ST  
PHILADELPHIA PA 19104  
USA  
(215) 299-6000  
SDS-Info@fmc.com

Local registrant : FMC Chemicals (Malaysia) Sdn Bhd  
Level 16, 1 Sentral, Jalan Stesen Sentral 5, Kuala Lumpur Sentral  
50470, Kuala Lumpur, Malaysia  
Phone No: +60320929423  
Fax No: +603-2092 9201

Emergency telephone : For leak, fire, spill or accident emergencies, call:  
CHEMTREC (Asia-Pacific Regional Number): +65 3163 8374  
  
Medical emergency:  
All other countries: +1 651 / 632-6793 (Collect)  
1 703 / 741-5970 (CHEMTREC - International)

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### SECTION 2: Hazards identification

#### Classification of the hazardous chemical

Hazardous to the aquatic environment - acute hazard : Category 1

Hazardous to the aquatic environment - chronic hazard : Category 1

#### Label elements

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Hazard pictograms



Signal Word

: Warning

Hazard Statements

: H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

: **Prevention:**

P273 Avoid release to the environment.

**Response:**

P391 Collect spillage.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards which do not result in classification

None known.

## SECTION 3: Composition and information of the ingredients of the hazardous chemical

Substance / Mixture

: Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Cytraniliprole	736994-63-1	>= 10 -< 25

## SECTION 4: First aid measures

General advice

: Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

If inhaled

: If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.

In case of skin contact

: Wash off with soap and water.  
If symptoms persist, call a physician.  
Wash contaminated clothing before re-use.

In case of eye contact

: Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

If swallowed

: Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.

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Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed : None known.

Protection of first-aiders : Avoid inhalation, ingestion and contact with skin and eyes.

Notes to physician : Treat symptomatically.

**SECTION 5: Firefighting measures****Extinguishing media**

Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, water spray or regular foam.

Unsuitable extinguishing media : High volume water jet

**Physicochemical hazards arising from the chemical**

Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : brominated compounds  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon oxides  
Chlorinated compounds  
Hydrogen chloride  
Hydrogen cyanide  
Fire may produce irritating, corrosive and/or toxic gases.

**Special protective equipment and precautions for fire-fighters**

Special protective equipment for fire-fighters : Firefighters should wear protective clothing and self-contained breathing apparatus.

Specific extinguishing methods : Remove undamaged containers from fire area if it is safe to do so.  
Use a water spray to cool fully closed containers.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
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.

Hazchem Code : •3Z

**SECTION 6: Accidental release measures**

Personal precautions, protective equipment and emergency measures : Evacuate personnel to safe areas.  
Use personal protective equipment.

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| gency procedures                                      |   | If it can be safely done, stop the leak.<br>Do not touch or walk through the spilled material.  |
| Environmental precautions                             | : | Prevent further leakage or spillage if safe to do so.<br>Prevent product from entering drains.<br>If the product contaminates rivers and lakes or drains inform respective authorities.   |
| Methods and materials for containment and cleaning up | : | Never return spills in original containers for re-use.<br>Collect as much of the spill as possible with a suitable absorbent material.<br>Pick up and transfer to properly labeled containers.<br>Keep in suitable, closed containers for disposal. |

**SECTION 7: Handling and storage****Handling****Precautions for safe handling**

- |   |   |   |
|---|---|---|
| Advice on protection against fire and explosion | : | Normal measures for preventive fire protection.   |
| Advice on safe handling                         | : | For personal protection see section 8.<br>Avoid formation of respirable particles.<br>Dispose of rinse water in accordance with local and national regulations.<br>Smoking, eating and drinking should be prohibited in the application area. |

**Storage****Conditions for safe storage, including any incompatibilities**

- |  |   |   |
|--|---|---|
| Conditions for safe storage              | : | Keep container tightly closed in a dry and well-ventilated place.<br>Containers which are opened must be carefully resealed and kept upright to prevent leakage.<br>Electrical installations / working materials must comply with the technological safety standards. |
| Further information on storage stability | : | No decomposition if stored and applied as directed.   |

**SECTION 8: Exposure controls and personal protection****Control parameters**

Contains no substances with occupational exposure limit values.

**Individual protection measures, such as personal protective equipment**

- |                     |   |   |
|---------------------|---|---|
| Eye/face protection | : | Eye wash bottle with pure water<br>Tightly fitting safety goggles |
| Skin protection     | : | Impervious clothing   |

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Choose body protection according to the amount and concentration of the dangerous substance at the work place.

### Hand protection

Material : Protective gloves

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

### Respiratory protection

: In the case of dust or aerosol formation use respirator with an approved filter.

### Hygiene measures

: Avoid contact with skin, eyes and clothing.  
Do not inhale aerosol.  
When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

## SECTION 9: Physical and chemical properties

Physical state : liquid

Form : liquid, suspension

Color : white

Odor : odorless

Odor Threshold : not determined

pH : 7.3  
Concentration: 10 g/l

Melting point/range : No data available

Boiling point/boiling range : 98 °C

Flash point : > 98 °C

Method: closed cup  
No flash up to boiling point.

Evaporation rate : Not available for this mixture.

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

Self-ignition : > 800 °C

Upper explosion limit / Upper : Not available for this mixture.

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flammability limit

Lower explosion limit / Lower flammability limit : Not available for this mixture.

Relative vapor density : Not available for this mixture.

Density : No data available

Solubility(ies)

Water solubility : soluble

Partition coefficient: n-octanol/water : No data available

Autoignition temperature : No data available

Decomposition temperature : Not available for this mixture.

Viscosity

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : The product is not oxidizing.

Molecular weight : Not applicable

### SECTION 10: Stability and reactivity

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.

Conditions to avoid : Avoid extreme temperatures.  
Avoid formation of aerosol.

Incompatible materials : Avoid strong acids, bases, and oxidizers.

Hazardous decomposition products : Stable under recommended storage conditions.

### SECTION 11: Toxicological information

Information on likely routes of exposure : None known.

#### Acute toxicity

Based on available data, the classification criteria are not met.

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### **Product:**

Acute oral toxicity	: LD50 (multiple species): > 5,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	: LC50 (Rat): > 3.7 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: yes Assessment: The substance or mixture has no acute inhalation toxicity Remarks: no mortality Highest attainable concentration.
Acute dermal toxicity	: LD50 (Rat): > 5,000 mg/kg

### **Components:**

#### **Cyantraniliprole:**

Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 425 Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	: LC50 (Rat): > 5.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	: LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity

### **Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

### **Product:**

Species	: Rabbit
Result	: No skin irritation

### **Components:**

#### **Cyantraniliprole:**

Species	: Rabbit
Assessment	: No skin irritation
Method	: OECD Test Guideline 404
Result	: No skin irritation

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**Serious eye damage/eye irritation**

Based on available data, the classification criteria are not met.

**Product:**

Species	:	Rabbit
Result	:	No eye irritation

**Components:****Cyantraniliprole:**

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405

**Respiratory or skin sensitization****Skin sensitization**

Not classified due to lack of data.

**Respiratory sensitization**

Not classified due to lack of data.

**Product:**

Species	:	multiple species
Result	:	Animal test did not cause sensitization by skin contact.

**Components:****Cyantraniliprole:**

Test Type	:	Local lymph node test
Method	:	OECD Test Guideline 429
Result	:	Does not cause skin sensitization.

**Germ cell mutagenicity**

Not classified due to lack of data.

**Components:****Cyantraniliprole:**

Germ cell mutagenicity - Assessment	:	Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
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**Carcinogenicity**

Not classified due to lack of data.

**Components:****Cyantraniliprole:**

Carcinogenicity - Assessment	:	Weight of evidence does not support classification as a carcinogen
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**Reproductive toxicity**

Not classified due to lack of data.

**Components:****Cyantraniliprole:**

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

**STOT-single exposure**

Not classified due to lack of data.

**Components:****Cyantraniliprole:**

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

**STOT-repeated exposure**

Not classified due to lack of data.

**Components:****Cyantraniliprole:**

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

**Repeated dose toxicity****Components:****Cyantraniliprole:**

Species	: Rat
NOAEL	: > 1,000 mg/kg
Application Route	: Oral
Exposure time	: 28 d
Method	: OECD Test Guideline 407
Symptoms	: increased liver weight
Remarks	: Based on available data, the classification criteria are not met.

**Aspiration toxicity**

Based on available data, the classification criteria are not met.

**Product:**

No aspiration toxicity classification

**Components:****Cyantraniliprole:**

The substance does not have properties associated with aspiration hazard potential.

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**Further information****Product:**

Remarks : No data available

**SECTION 12: Ecological information****Ecotoxicity****Product:**Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.0724 mg/l  
Exposure time: 48 h**Ecotoxicology Assessment**

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

**Components:****Cyantraniliprole:**Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 12.6 mg/l  
Exposure time: 96 hLC50 (Ictalurus punctatus (channel catfish)): > 10 mg/l  
Exposure time: 96 hToxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.0204 mg/l  
Exposure time: 48 hToxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 13 mg/l  
Exposure time: 72 hErC50 (Lemna gibba (duckweed)): 0.278 mg/l  
Exposure time: 7 dEyC50 (Lemna gibba (duckweed)): 0.060 mg/l  
Exposure time: 7 d

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : NOEC (Cyprinodon variegatus (sheepshead minnow)): 2.9 mg/l  
Exposure time: 28 dNOEC (Oncorhynchus mykiss (rainbow trout)): 0.11 mg/l  
Exposure time: 21 dToxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.00656 mg/l  
Exposure time: 21 d

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NOEC (Daphnia magna (Water flea)): 0.00969 mg/l  
Exposure time: 21 d

NOEC (Daphnia magna (Water flea)): 0.00447 mg/l  
Exposure time: 21 d

M-Factor (Chronic aquatic toxicity) : 10

Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg  
Exposure time: 14 d

Toxicity to terrestrial organisms : LD50 (Apis mellifera (bees)): > 0.0934 µg/bee  
Exposure time: 48 h  
End point: Acute contact toxicity

LD50 (Apis mellifera (bees)): > 0.1055 µg/bee  
Exposure time: 48 h  
End point: Acute oral toxicity

LD50 (Colinus virginianus (Bobwhite quail)): 2,250 mg/kg

### Persistence and degradability

#### Components:

##### **Cyantraniliprole:**

Biodegradability : Remarks: Not readily biodegradable.

### Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

#### Components:

##### **Cyantraniliprole:**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): < 1  
Remarks: Bioaccumulation is unlikely.

Bioconcentration factor (BCF): 15

Partition coefficient: n-octanol/water : log Pow: 1.97 (22 °C)  
pH: 4

log Pow: 2.07 (22 °C)  
pH: 7

log Pow: 1.74 (22 °C)  
pH: 9

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### Mobility in soil

#### Components:

##### **Cyantraniliprole:**

Distribution among environmental compartments : Koc: 241 ml/g, log Koc: 2.38  
Remarks: Mobile in soils

### Other adverse effects

#### Product:

Additional ecological information : See product label for additional application instructions relating to environmental precautions.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

## SECTION 13: Disposal information

### Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

## SECTION 14: Transport information

### International Regulations

#### **UNRTDG**

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

#### **IATA-DGR**

UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(Cyantraniliprole)  
Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo) : 964

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aircraft)  
Packing instruction (passenger aircraft) : 964  
Environmentally hazardous : yes

### IMDG-Code

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

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Hazchem Code : •3Z

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## SECTION 15: Regulatory information

### Safety, health, and environmental regulations specific for the hazardous chemical

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.  
Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

### The ingredients of this product are reported in the following inventories:

TCSI	: On the inventory, or in compliance with the inventory
TSCA	: Product contains substance(s) not listed on TSCA inventory.
AIIC	: Not in compliance with the inventory
DSL	: This product contains the following components that are not on the Canadian DSL nor NDSL.  3-BROMO-1-(3-CHLORO-2-PYRIDYL)-4'-CYAN-2'-METHYL-6'-(METHYLCARBAMOYL)-1H-PYRAZOLE-5-CARBOXANILIDE ACTI-GEL 208 (ACTIVE MINERALS)
ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory

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KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
TECI	:	Not in compliance with the inventory

### SECTION 16: Other information

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#### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

#### Disclaimer

FMC Corporation believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. You can contact FMC Corporation to

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