# Verimark® 200SC Insecticide



Version Revision Date: SDS Number: Date of last issue: -

1.1 2022/10/04 50000099 Date of first issue: 2018/03/01

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Verimark® 200SC Insecticide

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

Company : PT. FMC AGRICULTURAL MANUFACTURING

Address : WISMA KODEL LANTAI 10 JALAN HR.RASUNA SAID,

KAV. B-4, KEL. SETIA BUDI, KEC. SETIABUDI, KOTA ADM.

JAKARTA SELATAN, PROV. DKI JAKARTA

Telephone : +62 21-50890890

E-mail address : SDS-Info@fmc.com

Emergency telephone : For leak, fire, spill or accident emergencies, call:

001-803-017-9114 (CHEMTREC)

1 703 / 741-5970 (CHEMTREC - International)

Medical emergency: 0800 140 1447

### 2. HAZARDS IDENTIFICATION

**GHS Classification** 

Short-term (acute) aquatic

hazard

Category 1

Long-term (chronic) aquatic

hazard

Category 1

**GHS label elements** 

Hazard pictograms

¥2>

Signal Word : Warning

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

## Verimark® 200SC Insecticide



Version Revision Date: SDS Number: Date of last issue: -

1.1 2022/10/04 50000099 Date of first issue: 2018/03/01

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.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Cyantraniliprole	736994-63-1	19,3

### 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 : If symptoms persist, call a physician.

Wash contaminated clothing before re-use.

Wash off with soap and water.

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.

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

Avoid inhalation, ingestion and contact with skin and eyes.

## Verimark® 200SC Insecticide



Version Revision Date: SDS Number: Date of last issue: -

1.1 2022/10/04 50000099 Date of first issue: 2018/03/01

Notes to physician : Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Dry chemical

Carbon dioxide (CO2)

Water spray Foam

Unsuitable extinguishing

media

High volume water jet

Specific hazards during fire

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod-

ucts

Halogenated compounds

Nitrogen oxides (NOx)

Carbon oxides

Specific extinguishing meth-

ods

Remove undamaged containers from fire area if it is safe to do

J.

Use a water spray to cool fully closed containers.

Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local cir-

cumstances 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.

Special protective equipment

for fire-fighters

Firefighters should wear protective clothing and self-contained

breathing apparatus.

### **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emer-

gency procedures

Do not touch or walk through the spilled material.

If it can be safely done, stop the leak. Use personal protective equipment. Evacuate personnel to safe areas.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

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.

Collect as much of the spill as possible with a suitable absor-

bent material.

Pick up and transfer to properly labeled containers.

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

## Verimark® 200SC Insecticide



Version Revision Date: SDS Number: Date of last issue: -

1.1 2022/10/04 50000099 Date of first issue: 2018/03/01

Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

Advice on protection against :

fire and explosion

Normal measures for preventive fire protection.

Advice on safe handling : For personal protection see section 8.

Avoid formation of respirable particles.

Dispose of rinse water in accordance with local and national

regulations.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Electrical installations / working materials must comply with

the technological safety standards.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an

approved filter.

Hand protection

Material : Wear chemical resistant gloves, such as barrier laminate,

butyl rubber or nitrile rubber.

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Skin and body protection : Impervious clothing

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

Protective measures : Plan first aid action before beginning work with this product.

Hygiene measures : General industrial hygiene practice.

Avoid contact with skin, eyes and clothing.

Do not inhale aerosol.

Wash hands before breaks and immediately after handling

# Verimark® 200SC Insecticide



Version Revision Date: SDS Number: Date of last issue: -

1.1 2022/10/04 50000099 Date of first issue: 2018/03/01

the product.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : 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.

Self-ignition : > 800 °C

Autoignition temperature

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : No data available

Relative vapor density : Not available for this mixture.

Relative density : 1,068

Density : No data available

Bulk density : 1,0 - 1,2 g/cm3

Solubility(ies)

Water solubility : soluble

Partition coefficient: n-

octanol/water

No data available

# Verimark® 200SC Insecticide



Version Revision Date: SDS Number: Date of last issue: -

1.1 2022/10/04 50000099 Date of first issue: 2018/03/01

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : 799 mPa.s

25 rpm

474 mPa.s 50 rpm

286 mPa.s 100 rpm

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : Non-oxidizing

Molecular weight : Not applicable

### 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 reac-

tions

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

No decomposition if stored and applied as directed.

### 11. TOXICOLOGICAL INFORMATION

#### **Acute toxicity**

Not classified based on available information.

**Product:** 

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Assessment: The substance or mixture has no acute oral tox-

icity

Acute inhalation toxicity : LC50 (Rat): > 3,7 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

# Verimark® 200SC Insecticide



Version Revision Date: SDS Number: Date of last issue: -

1.1 2022/10/04 50000099 Date of first issue: 2018/03/01

GLP: yes

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: (Data on the product itself)

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Assessment: The substance or mixture has no acute dermal

toxicity

**Components:** 

Cyantraniliprole:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Method: OECD Test Guideline 425

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 inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg

Method: OECD Test Guideline 402

Skin corrosion/irritation

Not classified based on available information.

**Product:** 

Species : Rabbit Exposure time : 72 h

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

Remarks : (Data on the product itself)

Information source: Internal study report

**Components:** 

Cyantraniliprole:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

**Product:** 

Species : Rabbit

Result : No eye irritation

Exposure time : 72 h





Version Revision Date: SDS Number: Date of last issue: -

1.1 2022/10/04 50000099 Date of first issue: 2018/03/01

Method : OECD Test Guideline 405

GLP : yes

Remarks : (Data on the product itself)

Information source: Internal study report

**Components:** 

Cyantraniliprole:

Species : Rabbit

Result : No eye irritation

Method : OECD Test Guideline 405

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

**Components:** 

Cyantraniliprole:

Method : OECD Test Guideline 429

Result : Does not cause skin sensitization.

Germ cell mutagenicity

Not classified based on available information.

**Components:** 

Cyantraniliprole:

Germ cell mutagenicity - : Tests on bacterial or mammalian cell cultures did not show

Assessment mutagenic effects.

Carcinogenicity

Not classified based on available information.

**Components:** 

Cyantraniliprole:

Carcinogenicity - Assess- : Weight of evidence does not support classification as a car-

ment cinogen

Reproductive toxicity

Not classified based on available information.

**Components:** 

Cyantraniliprole:

Reproductive toxicity - As- : Weight of evidence does not support classification for repro-

sessment ductive toxicity

# Verimark® 200SC Insecticide



Version Revision Date: SDS Number: Date of last issue: -

1.1 2022/10/04 50000099 Date of first issue: 2018/03/01

#### STOT-single exposure

Not classified based on available information.

#### **Components:**

## Cyantraniliprole:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

#### STOT-repeated exposure

Not classified based on available information.

### **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**

Not classified based on available information.

## **Components:**

#### **Cyantraniliprole:**

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

#### **Further information**

## **Product:**

Remarks : No data available

#### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

#### **Product:**

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0,0724 mg/l

aquatic invertebrates Exposure time: 48 h

9/15

## Verimark® 200SC Insecticide



Version Revision Date: SDS Number: Date of last issue: -

1.1 2022/10/04 50000099 Date of first issue: 2018/03/01

**Components:** 

Cyantraniliprole:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 12,6 mg/l

Exposure time: 96 h

LC50 (Ictalurus punctatus (channel catfish)): > 10 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0,0204 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): > 13

mg/l

Exposure time: 72 h

EbC50 (Pseudokirchneriella subcapitata (algae)): > 13 mg/l

Exposure time: 72 h

ErC50 (Lemna gibba (duckweed)): 0,278 mg/l

Exposure time: 7 d

EyC50 (Lemna gibba (duckweed)): 0,060 mg/l

Exposure time: 7 d

M-Factor (Acute aquatic tox-

icity)

10

Toxicity to fish (Chronic tox-

icity)

NOEC (Cyprinodon variegatus (sheepshead minnow)): 2,9

mg/

Exposure time: 28 d

NOEC (Oncorhynchus mykiss (rainbow trout)): 0,11 mg/l

Exposure time: 21 d

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 0,00656 mg/l

Exposure time: 21 d

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 or-

ganisms

LC50 (Eisenia fetida (earthworms)): > 1.000 mg/kg

Exposure time: 14 d

Toxicity to terrestrial organ-

isms

LD50 (Apis mellifera (bees)): > 0.0934 µg/bee

Exposure time: 48 h

End point: Acute contact toxicity

# Verimark® 200SC Insecticide



Version **Revision Date:** SDS Number: Date of last issue: -

2022/10/04 50000099 Date of first issue: 2018/03/01 1.1

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** 

**Components:** 

Cyantraniliprole:

Species: Lepomis macrochirus (Bluegill sunfish) Bioaccumulation

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

Mobility in soil

**Components:** 

Cyantraniliprole:

Distribution among environ-

mental compartments

Koc: 241 ml/g, log Koc: 2,38 Remarks: Mobile in soils

Other adverse effects

**Product:** 

Additional ecological infor-

mation

See product label for additional application instructions relat-

ing 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.

## Verimark® 200SC Insecticide



Version Revision Date: SDS Number: Date of last issue: -

1.1 2022/10/04 50000099 Date of first issue: 2018/03/01

#### 13. DISPOSAL CONSIDERATIONS

**Disposal methods** 

Waste from residues : Send to a licensed waste management company.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

The product should not be allowed to enter drains, water

courses or the soil.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

#### 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 :

aircraft)

Packing instruction (passen- : 964

ger aircraft)

Environmentally hazardous : yes

**IMDG-Code** 

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

964

(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.

## Verimark® 200SC Insecticide



Version Revision Date: SDS Number: Date of last issue: -

1.1 2022/10/04 50000099 Date of first issue: 2018/03/01

#### 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.

### 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances Hazardous to Health

Hazardous substances that must be registered : Not applicable

Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

Hazardous substances approved for use : Not applicable

Prohibited substances : Not applicable

Restricted substances : Not applicable

Regulation of the Minister of Trade No. 44 of 2009 on Procurement, Distribution and Supervision of Hazardous Materials

Type of Hazardous Materials Restricted to Import, : Not applicable

Distribution and Supervision

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





Version Revision Date: SDS Number: Date of last issue: 1.1 2022/10/04 50000099 Date of first issue: 2018/03/01

ISHL : Not in compliance with the inventory

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

#### 16. OTHER INFORMATION

Revision Date : 2022/10/04

Date format : yyyy/mm/dd

#### 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





Version Revision Date: SDS Number: Date of last issue: -

1.1 2022/10/04 50000099 Date of first issue: 2018/03/01

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