

# SAFETY DATA SHEET

## Verimark 20 SC

This safety data sheet complies with the requirements of:  
Regulation (EC) No. 453/2010 and Regulation (EC) No. 1272/2008



SDS #: 130000050053-HU-A

Revision date: 2021-02-18

Format: EU

Version 1.04

### Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Code(s)	130000050053-HU-A
Legacy Product Code	50000081
Product Name	Verimark 20 SC
Synonyms	CYANTRANILIPROLE: 3-bromo-1-(3-chloro-2-pyridyl)-4'-cyano-2'-methyl-6'-(methylcarbamoyl)pyrazole-5-carboxanilide (IUPAC name); 3-bromo-1-(3-chloro-2-pyridinyl)-N-[4-cyano-2-methyl-6-[(methylamino)carbonyl]phenyl]-1H-pyrazole-5-carboxamide (CAS name)
Pure substance/preparation	Mixture

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use:	Insecticide
Restrictions on Use:	Use as recommended by the label.

#### 1.3. Details of the supplier of the safety data sheet

Supplier	FMC-Agro Hungary Ltd. Ganz Street 16, 2nd floor Budapest 1027 Phone: +36 1 336 2120 Fax: +36 1 336 2121 Email: info@fmcagro.hu Website: www.fmcagro.hu
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For further information, please contact:

Contact point	E-Mail: SDS-Info@fmc.com Phone: +1 215-299-6000 (General Information)
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#### 1.4. Emergency telephone number

Emergency telephone	For leak, fire, spill or accidents in Hungary, please call: 36-18088425 (CHEMTREC)  For medical emergencies in Hungary, please call: 36 80 20 1199
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### Section 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Acute aquatic toxicity	Category 1
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Chronic aquatic toxicity	Category 1
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## 2.2. Label elements

### Hazard pictograms

The product is classified and labelled according to the CLP regulation.



### Signal Word:

Warning

### Hazard Statements

H410 - Very toxic to aquatic life with long lasting effects

### Precautionary Statements

P273 - Avoid release to the environment

P391 - Collect spillage

P501: Dispose of contents/container as hazardous waste.

## 2.3. Other hazards

No information available.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

The product is a mixture, not a substance.

Chemical name	EC-No	CAS-No	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Cyantraniliprole	-	736994-63-1	18.7	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available

### Additional Information

For the full text of the H- and EUH- phrases mentioned in this Section, see Section 16

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General Advice

Do not induce vomiting or give anything by mouth to an unconscious person. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Bring the SDS, product label and package insert when seeking medical assistance.

#### Eye Contact

Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

#### Skin Contact

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.

#### Inhalation

Move to fresh air. If person is not breathing, contact emergency medical services, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or

doctor for further treatment advice.

**Ingestion**

Rinse mouth. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

**Protection of first-aiders**

Avoid contact by using personal protective equipment. See Section 8 for more detail.

**4.2. Most important symptoms and effects, both acute and delayed****Most important symptoms and effects, both acute and delayed**

May cause slight transient irritation at point of contact.

**4.3. Indication of any immediate medical attention and special treatment needed****Indication of immediate medical attention and special treatment needed, if necessary**

Treat symptomatically.

## Section 5: FIRE FIGHTING MEASURES

**5.1. Extinguishing media****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray, dry chemical, carbon dioxide (CO<sub>2</sub>), or foam.

**Unsuitable extinguishing media**

Do not spread material with high pressure water streams

**5.2. Special hazards arising from the substance or mixture**

Thermal decomposition can lead to release of irritating gases and vapors.

**Hazardous Combustion Products**

Carbon oxides (CO<sub>x</sub>). Nitrogen oxides (NO<sub>x</sub>). Halogenated compounds.

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment.

## Section 6: ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

**For emergency responders**

Dike to prevent runoff.

**6.2. Environmental precautions**

Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains. Keep out of waterways.

**6.3. Methods and material for containment and cleaning up****Methods for Containment**

Prevent further leakage or spillage if safe to do so. Dike to prevent runoff.

**Methods for cleaning up**

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see Section 13).

**6.4. Reference to other sections**

See section 8 for more information. See section 13 for more information.

## Section 7: HANDLING AND STORAGE

**7.1. Precautions for safe handling****Handling**

Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

**Hygiene measures**

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

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

Keep container tightly closed in a dry and well-ventilated place.

<b>Packaging material</b>	Must only be kept in original packaging.
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**7.3. Specific end use(s)****Specific Use(s)**

See subsection 1.2. Relevant identified uses of the substance or mixture and uses advised against.

**Risk Management Methods (RMM)**

The information required is contained in this Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters**

<b>Derived No Effect Level (DNEL)</b>	No information available.
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<b>Predicted No Effect Concentration (PNEC)</b>	No information available.
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**8.2. Exposure controls**

<b>Engineering measures</b>	Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.
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**Personal protective equipment**

<b>Eye/Face Protection</b>	For dust, splash, mist or spray exposure, wear chemical protective goggles.
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<b>Hand Protection</b>	Use protective gloves made of chemical materials such as nitrile or neoprene. Wash the outside of gloves with soap and water before reuse. Check regularly for leaks.
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<b>Skin and Body Protection</b>	Wear long-sleeved shirt, long pants, socks, and shoes.
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<b>Respiratory Protection</b>	In case of inadequate ventilation wear respiratory protection.
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<b>General information</b>	These recommendations apply to the product as supplied
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<b>Environmental exposure controls</b>	No information available.
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## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<b>Physical State</b>	Liquid
<b>Appearance</b>	Liquid
<b>Odor</b>	Odorless
<b>Color</b>	Off-white
<b>Odor threshold</b>	No information available
<b>pH</b>	7.3
<b>Melting point/freezing point</b>	217 °C
<b>Boiling Point/Range</b>	No information available
<b>Flash point</b>	> 98 °C
<b>Evaporation Rate</b>	No information available
<b>Flammability (solid, gas)</b>	
<b>Flammability Limit in Air</b>	
<b>Upper flammability limit:</b>	No information available
<b>Lower flammability limit:</b>	No information available
<b>Vapor pressure</b>	5.133x10 <sup>-15</sup> Pa@20°C, 1.787x10 <sup>-14</sup> Pa@25°C
<b>Vapor density</b>	No information available
<b>Specific gravity</b>	No information available
<b>Water solubility</b>	12.33 mg/L at pH 7 @ 20 °C
<b>Solubility in other solvents</b>	At 20°C: 6.54 g/L (Acetone), 1.96 g/L (Ethyl acetate), 4.73 g/L (Methanol), 5.05 g/L (Dichloromethane), 0.29 g/L (o-Xylene), 0.000067 g/L (n-Hexane), 0.79 g/L (n-Octanol), 2.45 g/L (Acetonitrile)
<b>Partition coefficient</b>	No information available
<b>Autoignition temperature</b>	>800 °C
<b>Decomposition temperature</b>	318
<b>Viscosity, kinematic</b>	No information available
<b>Viscosity, dynamic</b>	474.3 mPa s @50 rpm
<b>Explosive properties</b>	Not explosive
<b>Oxidizing properties</b>	Non-oxidizing

### 9.2. Other information

<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC content (%)</b>	No information available
<b>Relative density</b>	1.068 g/mL @ 20 °C
<b>Bulk density</b>	No information available
<b>K<sub>st</sub></b>	No information available

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

None under normal use conditions

### 10.2. Chemical stability

Stable under recommended storage conditions.

#### Explosion data

**Sensitivity to Mechanical Impact** No information available.

**Sensitivity to Static Discharge** No information available.

### 10.3. Possibility of hazardous reactions

#### **Hazardous polymerization**

Hazardous polymerization does not occur.

#### **Hazardous reactions**

None under normal processing.

**10.4. Conditions to avoid**

Avoid excessive heat or cold.

**10.5. Incompatible materials**

Strong oxidizing agents. Strong bases.

**10.6. Hazardous decomposition products**

Carbon oxides (COx). Nitrogen oxides (NOx). Halogenated compounds.

## Section 11: TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects****Acute toxicity****Product Information**

Product does not present an acute toxicity hazard based on known or supplied information.

<b>LD50 Oral</b>	> 5000 mg/kg
<b>LD50 Dermal</b>	> 5000 mg/kg
<b>LC50 Inhalation (dust)</b>	> 3.7 mg/L, 4 hr

<b>Skin corrosion/irritation</b>	Slightly or non-irritating (rabbit).
<b>Serious eye damage/eye irritation</b>	Slightly or non-irritating (rabbit).
<b>Sensitization</b>	Did not cause sensitization on laboratory animals
<b>Chronic toxicity</b>	Thyroid effects and organ weight changes were observed in rats fed cyantraniliprole for 28 and 90 days.
<b>Mutagenicity</b>	Cyantraniliprole: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	Cyantraniliprole: Animals testing did not show any effects on fertility.
<b>Developmental toxicity</b>	Cyantraniliprole: Effects in offspring were only observed at or above dosage levels which resulted in maternal toxicity.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Target organ effects</b>	Liver, Thyroid.
<b>Aspiration hazard</b>	The product does not present an aspiration pneumonia hazard.

## Section 12: ECOLOGICAL INFORMATION

**12.1. Toxicity**

There are no data available for this product.

<b>Cyantraniliprole (736994-63-1)</b>				
Active Ingredient(s)	Duration	Species	Value	Units
Cyantraniliprole	96 h LC50	Rainbow trout	> 12.6	mg/L
	48 h LC50	Daphnia magna	0.0204	mg/L
	72 h EC50 (Growth rate ErC50)	Green algae (Selenastrum capricornutum)	>13	mg/L
	28-day NOEC	Cyprinodon variegatus	2.9	mg/L
	21 d NOEC	Daphnia magna	0.00656	mg/L

	48-h LD50 oral	Bee	>0.1055	µg/bee
	48-h LD50 contact	Bee	> 0.0934	µg/bee

**12.2. Persistence and degradability**

Cyantraniliprole: Not readily biodegradable.

**12.3. Bioaccumulative potential**

Cyantraniliprole. Not expected to bioaccumulate.

**12.4. Mobility in soil**

**Mobility in soil**

No information available.

**Mobility**

Low mobility in soil.

**12.5. Results of PBT and vPvB assessment**

No information available.

**12.6. Other adverse effects**

No information available

**Section 13: DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

**Residual waste**

Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance. Proper personal protective equipment, as described in Sections 7 and 8, must be worn while handling materials for waste disposal.

**Contaminated containers and packages**

Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions.

**Section 14: TRANSPORT INFORMATION**

**IMDG/IMO**

- 14.1 UN/ID no UN3082
- 14.2 Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.(Cyantraniliprole)
- 14.3 Hazard class 9
- 14.4 Packing Group III
- 14.5 Environmental Hazards Yes
- 14.6 Special Provisions None
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available

**RID**

- 14.1 UN/ID no Not regulated
- 14.2 Proper Shipping Name Not regulated
- 14.3 Hazard class Not regulated

14.4 Packing Group	Not regulated
14.5 Environmental Hazard	Not applicable
14.6 Special Provisions	None

**ADR/RID**

14.1 UN/ID no	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental Hazard	Not applicable
14.6 Special Provisions	None

**ICAO/IATA**

14.1 UN/ID no	UN3082
14.2 Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.(Cyantraniliprole)
14.3 Hazard class	9
14.4 Packing Group	III
14.5 Environmental Hazard	Not applicable
14.6 Special Provisions	None

<b>Section 15: REGULATORY INFORMATION</b>
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**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****European Union****Authorizations and/or restrictions on use:**

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**Persistent Organic Pollutants**

Not Applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not Applicable

**International Inventories****15.2. Chemical safety assessment**

No information available

<b>Section 16: OTHER INFORMATION</b>
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**Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under sections 2 and 3**

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

**Legend**

**ADR:** European Agreement concerning the International Carriage of Dangerous Goods by Road  
**CAS:** CAS (Chemical Abstracts Service)



**Ceiling:** Maximum limit value:  
**DNEL:** Derived No Effect Level (DNEL)  
**EINECS:** EINECS (European Inventory of Existing Chemical Substances)  
**GHS:** Globally Harmonized System (GHS)  
**IATA:** International Air Transport Association (IATA)  
**ICAO:** International Civil Aviation Organization  
**IMDG:** International Maritime Dangerous Goods (IMDG)  
**LC50:** LC50 (lethal concentration)  
**LD50:** LD50 (lethal dose)  
**PBT:** Persistent, Bioaccumulative, and Toxic (PBT) Chemicals  
**RID:** Regulations Concerning the International Transport of Dangerous Goods by Rail  
**STEL:** Short term exposure limit  
**SVHC:** SVHC: Substances of Very High Concern for Authorization:

**TWA:** time weighted average  
**vPvB:** very Persistent and very Bioaccumulative

**Revision date:** 2021-02-18

**Reason for revision:** Initial Release.

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**End of Safety Data Sheet**