SAFETY DATA SHEET

Verimark 20 SC

SDS#: 130000050053-1-GT-A

Revision date: 2020-07-29 Version 1

Format: BR



Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Verimark 20 SC

Other means of identification

Product Code(s) 130000050053-1-GT-A

UN/ID no UN3082

Synonyms CYANTRANILIPROLE:

3-bromo-1-(3-chloro-2-pyridyl)-4'-cyano-2'-methyl-6'-(methylcarbamoyl)pyrazole-5-carboxan

ilide (IUPAC name);

3-bromo-1-(3-chloro-2-pyridinyl)-N-[4-cyano-2-methyl-6-[(methylamino)carbonyl]phenyl]-1H-

pyrazole-5-carboxamide (CAS name)

Active Ingredient(s) Cyantraniliprole

Formula C₁₉H₁₄BrClN₆O₂ (Cyantraniliprole)

Chemical Family Diamide

Recommended use of the chemical and restrictions on use

Recommended Use: Insecticide.

Restrictions on Use: Use as recommended by the label.

Details of the supplier of the safety data sheet

Formulator E.I. DU PONT DE NEMOURS AND COMPANY

CROP PROTECTION

1007 Market Street, Wilmington, Delaware, 19898

United States of America.

Emergency telephone number:

911

Guatemala - Center of Toxicological Information and Assistance - (502) 2251-3560 / 2232-0735

El Salvador - Rosales National Hospital - (503) 2231-9262

Honduras - Hospital School - (504) 232-6105

Nicaragua - National Center of Toxicology - (505) 2289-4700 ext. 1294 cel. 8755-0983

Costa Rica - National Center of Poisoning - (506) 2223-1028; 800-INTOXICA

Panama Center of Research and Information on Medications and Toxicology (507) 523-4948 Dominican Republic - Drug Information and Poisoning Center - (809) 562-6601 Ext. 1801

Section 2: HAZARDS IDENTIFICATION

General Hazards

This material is considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute aquatic toxicity Category 1

Revision date: 2020-07-29

Version 1

Chronic aquatic toxicity Category 1

GHS Label elements, including precautionary statements



Signal Word: Warning

Hazard Statements

H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements

Precautionary Statements - Prevention

P273 - Avoid release to the environment

P391 - Collect spillage

Precautionary Statements - Disposal

P501 - Dispose of contents/container according to label directions

Other Information

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/preparation Mixture

Chemical Family Diamide

Hazardous Components

Chemical name	CAS-No	Weight %	
Cyantraniliprole	736994-63-1	18.7	
Oxirane, methyl-, polymer with oxirane, monobutyl	9038-95-3	1.4	
ester			

Synonyms are provided in Section 1.

Section 4: FIRST AID MEASURES

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 Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Call a poison control center or doctor for further treatment advice.

Verimark 20 SC

SDS #: 130000050053-1-GT-A

Revision date: 2020-07-29 Version 1

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.

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.

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

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray, dry chemical, carbon dioxide (CO₂), or foam.

Unsuitable extinguishing media

Do not spread material with high pressure water streams.

Specific extinguishing methods

Evacuate area and fight fire from a safe distance. Very toxic to aquatic life with long lasting effects. Dike to prevent runoff.

Special protective equipment for fire-fighters

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

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

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

Explosive properties

Sensitivity to Mechanical Impact Not sensitive.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal **Personal Precautions**

protective equipment.

For emergency responders Dike to prevent runoff.

Environmental Precautions

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.

C. Methods and material for containment and cleaning up

Revision date: 2020-07-29

Version 1

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).

Section 7: HANDLING AND STORAGE

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.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible products Strong oxidizing agents. Strong bases.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

This product, as supplied, contains hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Hazardous Components

Chemical name	Brazil	Chile	Argentina	Venezuela	Mexico	ACGIH TLV
Synthetic amorphous silica 112926-00-8		TWA: 5.3 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³		
Sodium Hydroxide 1310-73-2	Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³	STEL: 2 mg/m ³	Mexico: Ceiling 2 mg/m³	Ceiling: 2 mg/m ³
Crystalline silica, quartz 14808-60-7	TWA: 0.025 mg/m ³	TWA: 0.08 mg/m ³	TWA: 0.05 mg/m ³	TWA: 0.025 mg/m ³	Mexico: TWA 0.025 mg/m ³	TWA: 0.025 mg/m ³
Methyl ethyl ketone 78-93-3	TWA: 155 ppm TWA: 460 mg/m ³	TWA: 175 ppm TWA: 516 mg/m³ STEL: 300 ppm STEL: 885 mg/m³	TWA: 200 ppm STEL: 300 ppm	TWA: 200 ppm STEL: 300 ppm	Mexico: TWA 200 ppm Mexico: STEL 300 ppm	STEL 300 ppm TWA: 200 ppm

Appropriate engineering controls

Engineering measures Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/Face Protection For dust, splash, mist or spray exposure, wear chemical protective goggles.

Skin and Body Protection Wear long-sleeved shirt, long pants, socks, and shoes.

Hand Protection Rubber gloves, nitrile gloves

Respiratory Protection In case of inadequate ventilation wear respiratory protection.

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.

General information These recommendations apply to the product as supplied If the product is used in mixtures,

Revision date: 2020-07-29

Version 1

it is recommended that you contact the appropriate protective equipment suppliers.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid **Appearance** Liquid Odor Odorless Color Off-white

No information available Odor threshold 7.3 (1% solution) Ha

217 [`]℃ Melting point/freezing point

Boiling Point/Range No information available

Flash point > 98 °C

Evaporation Rate No information available Flammability (solid, gas) No information available

Flammability Limit in Air

Surface tension

Upper flammability limit: No information available Lower flammability limit: No information available

Vapor pressure 5.133x10-15 Pa@20°C, 1.787x10-14 Pa@25°C

Vapor density No information available Specific gravity No information available 12.33 mg/L at pH 7 @ 20 °C Water solubility

Solubility in other solvents 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) No data available

Partition coefficient No information available Not flammable >800 °C **Autoignition temperature**

Decomposition temperature 318 °C

Viscosity, kinematic No information available Viscosity, dynamic 474.3 mPa s @50 rpm

Explosive properties Not explosive

Corrosivity No information available

Oxidizing properties Non-oxidizing

No information available Softening point Molecular weight No data available No information available VOC content (%) 1.068 g/mL @ 20 °C Relative density No information available **Bulk density**

Section 10: STABILITY AND REACTIVITY

Reactivity

None under normal use conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Avoid excessive heat or cold.

Incompatible materials

Strong oxidizing agents. Strong bases.

Hazardous Decomposition Products

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

SDS #: 130000050053-1-GT-A **Revision date**: 2020-07-29

Version 1

Section 11: TOXICOLOGICAL INFORMATION

Product Information

LD50 Oral > 5000 mg/kg **LD50 Dermal** > 5000 mg/kg

LC50 Inhalation (dust) > 3.7 mg/L, 4 hr

Information on likely routes of exposure

Inhalation: There are no data available for this product

Eye Contact: May cause slight irritation

Skin Contact: May cause slight irritation

Ingestion: There are no data available for this product

Information on toxicological effects

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation: Slightly or non-irritating (rabbit)

Serious eye damage/eye irritation: Slightly or non-irritating (rabbit)

Sensitization: Did not cause sensitization on laboratory animals

Mutagenicity: Cyantraniliprole: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity: Cyantraniliprole: Did not show carcinogenic effects in animal experiments

Reproductive toxicity: Cyantraniliprole: Animals testing did not show any effects on fertility.

Developmental toxicity: Cyantraniliprole: Effects in offspring were only observed at or above dosage levels which resulted in

maternal toxicity

Chronic toxicity: Thyroid effects and organ weight changes were observed in rats fed cyantraniliprole for 28 and 90 days.

Target organ effects: Liver Thyroid

Neurological effects: No information available

Aspiration hazard: The product does not present an aspiration pneumonia hazard.

Section 12: ECOLOGICAL INFORMATION

The environmental impact of this product has not been fully investigated. Very toxic to aquatic life with long lasting effects.

Ecotoxicity

Duration	Species	Value	Units
96 h LC50	Fish	> 12.6	mg/L
48 h EC50	Daphnia	20.4	μg/L
72 h EC50	Algae	>13	mg/L
14-day LC50	Earthworm	>1000	mg/kg
96-h LD50 Contact	Bee	> 0.0934	μg/bee
NOEC	Algae	3.2	mg/L
LD50	Bird	>2250	mg/kg

Hazardous Components

Revision date: 2020-07-29

Version 1

Chemical name	,	Toxicity to daphnia and other aquatic invertebrates	Toxicity to algae
Cyantraniliprole	28 d NOEC: 2.9 mg/L	21 d NOEC 0.00656 mg/L	

Persistence and degradability: Cyantraniliprole: Not readily biodegradable.

Bioaccumulation: Cyantraniliprole. Not expected to bioaccumulate.

Mobility: Low mobility in soil.

Other Adverse Effects: See product label for additional application instructions relating to environmental precautions

Section 13: DISPOSAL CONSIDERATIONS

Waste disposal methods Pesticide wastes are toxic. 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 regulations. Refer to the product label for container disposal instructions. Do not reuse this container for any other purpose.

Section 14: TRANSPORT INFORMATION

IMDG/IMO:

UN/ID no UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.(Cyantraniliprole)

Hazard class 9
Packing Group III
Environmental Hazards Yes

ICAO:

UN/ID no UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.(Cyantraniliprole)

Hazard class 9
Packing Group III

ICAO/IATA:

UN/ID no UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.(Cyantraniliprole)

Hazard class 9
Packing Group III

Section 15: REGULATORY INFORMATION

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELI NCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines	AICS (Australia)
Propylene glycol 57-55-6	X	X	X	Х	X	X	X	X

Revision date: 2020-07-29

Version 1

Oxirane, methyl-,	Х	Х	Х	Х	Х	Х	Х
polymer with							
oxirane, monobutyl							
ester							
9038-95-3							

Section 16: OTHER INFORMATION

Revision date: 2020-07-29

Revision noteNo information available.

Disclaimer

FMC Corporation believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specified product designated and may not be applicable where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use are beyond the control of FMC Corporation, FMC corporation expressly disclaims any and all liability as to any results obtained or arising from any use of the products or reliance on such information