

SAFETY DATA SHEET
CORAGEN 20 SC

SDS #: 130000027866-2-CR-A

Revision date: 2019-07-22

Version 1

Format: BR



Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name CORAGEN 20 SC

Other means of identification

Product Code(s) 130000027866-2-CR-A

UN/ID no 3082

Synonyms CHLORANTRANILIPROLE:
3-bromo-4'-chloro-1-(3-chloro-2-pyridyl)-2'-methyl-6'-(methylcarbamoyl)pyrazole-5-carboxanilide (IUPAC name);
3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-1H-pyrazole-5-carboxamide (CAS name)

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
Valdosta Manufacturing Center
2509 Rocky Ford Road
Valdosta, GA 31601

Importer

DUWEST CAFESA COSTA RICA
San José, La Uruca,
600 metros noreste dela Rotonda Juan Pablo II.
San José, Costa Rica, C.A.
(506) 2232-2255

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

Panama Center of Research and Information on Medications and Toxicology (507) 523-4948

Medical Emergencies :

1 800 / 331-3148 (U.S.A. & Canada)

1 651 / 632-6793 (All Other Countries - Collect)

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

1 800 / 424-9300 (CHEMTREC - U.S.A.)

1 703 / 741-5970 (CHEMTREC - International)

1 703 / 527-3887 (CHEMTREC - Alternate)

Section 2: HAZARDS IDENTIFICATION

GHS Classification**General Hazards**

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

Acute aquatic toxicity	Category 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

H400 - Very toxic to aquatic life

Precautionary Statements - Prevention

P273 - Avoid release to the environment

P391 - Collect spillage

Disposal

P501 - Dispose of contents/container according to label directions

Other Information

NOTE

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**Chemical Family**

Anthranilic diamide

Hazardous Components

Chemical name	CAS-No	Weight %
Chlorantraniliprole	500008-45-7	18.4
hydrated aluminum-magnesium silicate (attapulgite, short fibers <5 µm)	12174-11-7	<1
Crystalline silica, quartz	14808-60-7	<0.05

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.

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.

Skin Contact

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

clothes and shoes.

Eye Contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.

Ingestion

Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not induce vomiting or give anything by mouth to an unconscious person.

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**

This section includes adverse acute effects that could occur if this product is not used as indicated on the label. May cause slight transient irritation at point of contact. Show the doctor the SDS.

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

Treatment is symptomatic and supportive.

Section 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Carbon dioxide (CO₂). Foam. Dry chemical. Water spray. Avoid heavy hose streams. Contain all runoff.

Small Fire

If area is engulfed in fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray.

Unsuitable extinguishing media

Avoid heavy hose 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

Not flammable.

Hazardous Combustion Products

Nitrogen oxides (NO_x). Carbon monoxide. Unidentified organic compounds may be formed upon combustion.

Explosive properties

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

Section 6: ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment. For personal protection see section 8. Avoid contact with skin, eyes and clothing. Do not touch or walk through spilled material. Evacuate personnel to safe areas.

For emergency responders

Very toxic to aquatic life with long lasting effects.

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.

Methods and material for containment and cleaning up

Methods for Containment Wear the full Personal Protection Equipment, avoiding inhalation or contact with skin or eyes. Dike to contain spill with inert material which is absorbent and non-combustible (clay, sand or soil). Then soak up with absorbent material inward from the edges.

Methods for cleaning up Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean and neutralize spill area, tools and equipment by washing with water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling

Handling Handle in accordance with good industrial hygiene and safety practice. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal. Wash hands before eating, drinking, chewing gum, using tobacco, or using toilet. Remove and wash contaminated clothing before re-use.

Hygiene measures Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household laundry.

Conditions for safe storage, including any incompatibilities

Storage Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Keep/store only in original container. Do not contaminate other materials, or allow this material to be contaminated, by improper storage or handling. Store above 0°C.

Incompatible products No materials to be especially mentioned.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical name	Brazil	Chile	Argentina	Venezuela	ACGIH TLV
Crystalline silica, quartz 14808-60-7		TWA: 0.08 mg/m ³	TWA: 0.05 mg/m ³	TWA: 0.025 mg/m ³	TWA: 0.025 mg/m ³

Appropriate engineering controls

Engineering measures Apply technical measures to comply with the occupational exposure limits (if listed above). When working in confined spaces (tanks, containers, etc.), make sure there is an adequate source of air for breathing and wear the recommended equipment. Ventilate all transport vehicles prior to discharge.

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 Use coveralls or long-sleeved uniform and head covering. For large exposures as in case of a spill, use barrier suit covering the entire body, such as a waterproof PVC suit. Leather items, including shoes, belts and watchbands, that have been contaminated should be removed and destroyed. Wash all work clothing before reuse (separately from clothing

commonly used).

Hand Protection

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.

Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with a vapor filter (EN 141).

Hygiene measures

Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household laundry.

General information

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Liquid suspension
Odor	Alcohol Slight
Color	White
Odor threshold	No information available
pH	5-9
Melting point/freezing point	No information available
Boiling Point/Range	No information available
Flash point	No flash up to boiling point > 100 °C
Evaporation Rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	6.3x10 ⁻¹² Pa @ 20 °C Chlorantraniliprole
Vapor density	No information available
Relative Density	1.08 - 1.10
Water solubility	Chlorantraniliprole: 0.88 mg/L at pH 7 @ 20 °C
Solubility in other solvents	
Surface tension:	No data available
Partition coefficient	2.76-2.86 @ 20°C Chlorantraniliprole
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity, kinematic	No information available
Viscosity, dynamic	450 - 800 cps @30 rpm @ 20°C
Explosive properties	Not explosive
corrosivity	not corrosive
Oxidizing properties	Non-oxidizing
Softening point	No information available
VOC content (%)	No information available
Relative density	No information available
Bulk density	No information available

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.

Conditions to avoid

Frost.

Incompatible materials

No materials to be especially mentioned.

Hazardous Decomposition Products

Carbon oxides (COx). Nitrogen oxides (NOx). Hazardous decomposition products due to incomplete combustion.

Section 11: TOXICOLOGICAL INFORMATION**Product Information**

LD50 Oral	> 5000 mg/kg (rat)
LD50 Dermal	> 5000 mg/kg (rat)
LC50 Inhalation	> 3.9 mg/L (rat) 4 hr

Information on likely routes of exposure

Inhalation	May cause irritation.
Eye Contact	Slightly or non-irritating (rabbit).
Skin Contact	Slightly or non-irritating (rabbit).
Ingestion	Ingestion may cause stomach discomfort.

Information on toxicological effects

Symptoms This section includes adverse acute effects that could occur if this product is not used as indicated on the label. May cause slight transient irritation at point of contact.

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

Skin corrosion/irritation	Non-irritating (rabbit).
Serious eye damage/eye irritation	Non-irritating (rabbit).
Sensitization	Did not cause sensitization on laboratory animals.
Mutagenicity	Chlorantraniliprole: Not mutagenic.
Carcinogenicity	Chlorantraniliprole: No evidence of carcinogenicity from animal studies. Product contains ingredients classified by ACGIH, IARC, NTP, OSHA, or the EU as known or potential carcinogens.
Reproductive toxicity	Chlorantraniliprole: No toxicity to reproduction in animal studies.
Teratogenicity	Chlorantraniliprole: Not teratogenic in animal studies.
STOT - single exposure	Not classified.
STOT - repeated exposure	Chlorantraniliprole: No toxicologically significant effects were found.
Developmental toxicity	Chlorantraniliprole: No toxicologically significant effects were found.
Chronic toxicity	Chlorantraniliprole: No toxicologically significant effects were found.
Target organ effects	No information available.
Neurological effects	No information available.
Aspiration hazard	The product does not present an aspiration pneumonia hazard.

Chemical name	ACGIH	IARC	NTP	OSHA
hydrated aluminum-magnesium silicate (attapulgite, short fibers <5 µm)		Group 2B (> 5 µm) Group 3 (< 5 µm)		X
Crystalline silica, quartz	A2	Group 1	Known	X

Legend:

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans
Group 3 - Not classifiable as to its carcinogenicity to humans

NTP (National Toxicology Program) Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Ecotoxicity			
Duration	Species	Value	Units
96 h LC50	Onchorhynchus mykiss	>9.9	mg/L
72 h EC50 (Growth rate ErC50)	Green algae (Selenastrum capricornutum)	>20	mg/L
48 h EC50	Daphnia	0.035	mg/L
14-day LC50	Earthworm	>1000	mg/kg
LD50	Bobwhite quail	>2000	mg/kg
48-h LD50 oral	Bee	>109.9	µg/bee
48-h LD50 contact	Bee	>100	µg/bee

Hazardous Components

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Chlorantraniliprole	72 h ErC50 Pseudokirchneriella subcapitata: > 2 mg/l	96h LC50 Oncorhynchus mykiss:> 13.8 mg/l 90 d NOEC Oncorhynchus mykiss: 0.110 mg/l	48 h EC50 Daphnia magna: 0.0116 mg/l 21 d NOEC Daphnia magna: 0.00447 mg/L

Persistence and degradability

Chlorantraniliprole is persistent in soil, water and sediments.

Bioaccumulation

Chlorantraniliprole has a low potential for bioaccumulation in fish because it is rapidly eliminated from the body. BCF = 12-21 (whole fish).

Mobility

The product is not expected to be mobile in the soil.

Ozone

Not applicable

Section 13: DISPOSAL CONSIDERATIONS

Disposal of residues / unused products

Dispose of in accordance with local regulations.

Contaminated Packaging

Dispose of in accordance with local regulations.

Section 14: TRANSPORT INFORMATION

UN/ID no	3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (Chlorantraniliprole)
Hazard class	9
Packing Group	III
Marine Pollutant	Yes

UN/ID no	3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (Chlorantraniliprole)
Hazard class	9
Packing Group	III

DOT

	Not applicable
UN/ID no	3082

UN/ID no 3082
Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s. (Chlorantraniliprole)
Hazard class 9
Packing Group III
Marine Pollutant Yes.

MEX**Section 15: REGULATORY INFORMATION**International Inventories

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELI NCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
hydrated aluminum-magnesium silicate (attapulgite, short fibers <5 µm) 12174-11-7		X			X		X	X
Crystalline silica, quartz 14808-60-7	X	X	X	X	X	X	X	X

Section 16: OTHER INFORMATION**Prepared By:**

FMC Corporation

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Revision note

Initial Release.

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