

SAFETY DATA SHEET



Coragen® 20SC

Version 4.0

Revision Date 14.07.2016

Document no. 130000027866

This SDS adheres to the standards and regulatory requirements of Singapore and may not meet the regulatory requirements in other countries.

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : Coragen® 20SC

Other names : DPX-E2Y45 20SC
Premio®

Recommended use of the chemical and restriction on use

Recommended use : Insecticide

Manufacturer, importer, supplier

Company : Du Pont Company (Singapore) Pte Ltd
Street address : 21 Biopolis Road, #06-21 Nucleos, South Tower, Singapore 138567
Telephone : +65 6586 3688
Telefax : +65 6272 7494

Emergency telephone number : +65 6542 9595

2. HAZARDS IDENTIFICATION

Product hazard classification

Acute aquatic toxicity : Category 1

Chronic aquatic toxicity : Category 1

Endpoints which are not classified, cannot be classified or are not applicable are not shown.

Label content

Pictogram :



Signal word : Warning

Hazardous warnings : Very toxic to aquatic life with long lasting effects.

Precautionary statements : Collect spillage.
Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Components

Chemical name	CAS-No.	Concentration
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Chlorantraniliprole	500008-45-7	18.4 %
Butanone	78-93-3	0.1 - 0.15%
Other Ingredients		81.45 - 81.5%

4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. Never give anything by mouth to an unconscious person.

Inhalation	: No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.
Skin contact	: The material is not likely to be hazardous by skin contact, but cleaning the skin after use is advisable.
Eye contact	: The material is not likely to be hazardous by eye contact, but flushing the eye if contact occurs is advisable. Consult a physician if necessary.
Ingestion	: No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.
Most important symptoms/effects, acute and delayed	: No information available.
Protection of first-aiders	: No information available.
Notes to physician	: No information available.

5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Water spray, Foam, Dry chemical, Carbon dioxide (CO2)
Unsuitable extinguishing media	: High volume water jet, (contamination risk)
Specific hazards	: The product is not flammable.
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus. Wear full protective equipment.
Specific extinguishing methods	: No information available.
Further information	: (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray. Control Runoff.

6. ACCIDENTAL RELEASE MEASURES

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- Personal precautions, protective equipment and emergency procedures** : Evacuate personnel to safe areas. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Wear suitable protective equipment.
- Environmental precautions** : Prevent material from entering sewers, waterways, or low areas.
- Methods and materials for containment and cleaning up** : Soak up with sawdust, sand, oil dry or other absorbent material. Dispose of in an approved container.
If liquid has been spilt in large quantities clean up promptly by scoop or vacuum.
- Additional advice** : Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

Handling

- Technical measures/Precautions** : Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.
- Precautions for safe handling** : The product is not flammable.

Storage

- Suitable storage conditions** : Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Not for use or storage in or around the home. Keep out of the reach of children.

Storage period: Storage temperature: > 0 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Applicable occupational exposure limits are listed below.

Chemical name	Occupational Exposure Limits	Regulation
Butanone		
STEL	300 ppm 885 mg/m ³	SG PEL (2006)
TWA	200 ppm 590 mg/m ³	SG PEL (2006)
TWA	200 ppm	US ACGIH (2011)
STEL	300 ppm	US ACGIH (2011)

- Engineering measures** : Use only with adequate ventilation.

- Biological occupational exposure limits** : No information available.

Personal protective equipment

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Respiratory protection	: Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge.
Hand protection	: Material: Protective gloves
Eye protection	: Wear protective eyewear to prevent contact with this substance.
Skin protection	: Wear protective clothing such as gloves, apron, boots, or coveralls, as appropriate.
Hygiene measures	: Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing.
Protective measures	: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (Physical state, form, colour, etc.)

Physical state	: liquid
Form	: liquid, suspension
Colour	: white

Odour : alcohol-like

Odour Threshold : No information available.

pH : 5 - 9 (10 g/l)

Melting point/freezing point

No information available.

Initial boiling point and boiling range

No information available.

Flash point : No flash up to boiling point.

Evaporation rate : No information available.

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

Upper/lower flammability or explosive limits

Upper explosion limit	: No information available.
Lower explosion limit	: No information available.

Vapour pressure : No information available.

Vapour density : No information available.

Density

Specific gravity (Relative density)	: 1.08 - 1.10
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Solubility(ies)

Water solubility : No information available.
Solubility in other solvents : slightly soluble

Partition coefficient: n-octanol/water : No information available.

Auto-ignition temperature

No information available.

Decomposition temperature : No information available.

Viscosity

Viscosity, kinematic : No information available.
Viscosity, dynamic : Not available for this mixture.

Molecular weight : No information available.

10. STABILITY AND REACTIVITY

Reactivity : No information available.

Chemical stability : Stable at normal temperatures and storage conditions.

Possibility of hazardous reactions : Polymerization will not occur.

Conditions to avoid : No information available.

Materials to avoid : No materials to be especially mentioned.

Hazardous decomposition products : Nitrogen oxides, carbon monoxide and unidentified organic compounds may be formed upon combustion.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral

Coragen® 20SC : LD50/Rat: > 5,000 mg/kg

Inhalation

Coragen® 20SC : LC50/4 h/Rat(dust/mist): > 2 mg/l
The substance or mixture has no acute inhalation toxicity

Dermal

Coragen® 20SC : LD50/Rat: > 5,000 mg/kg

Skin corrosion/irritation

Coragen® 20SC : Species: Rabbit
Result: No skin irritation

Serious eye damage/eye irritation

Coragen® 20SC : Species: Rabbit
Result: No eye irritation

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Respiratory or skin sensitisation

Coragen® 20SC : Species: mice
Result: Animal test did not cause sensitization by skin contact.

Germ cell mutagenicity

Chlorantraniliprole : Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Butanone : Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity

Chlorantraniliprole : Animal testing did not show any carcinogenic effects.
Not classifiable as a human carcinogen.

Reproductive toxicity

Chlorantraniliprole : Reproductive toxicity: No toxicity to reproduction
Animal testing showed no reproductive toxicity.
Teratogenicity: Animal testing showed no developmental toxicity.
Butanone : Reproductive toxicity: No toxicity to reproduction
No effects on or via lactation
Animal testing showed no reproductive toxicity.
Information given is based on data obtained from similar substances.
Teratogenicity: Animal testing showed no developmental toxicity.

Specific Target Organ Toxicity

Specific target organ toxicity - single exposure

Butanone : Target Organs: Central nervous system

Specific target organ toxicity - repeated exposure

Coragen® 20SC : Refer to acute toxicity and/or repeated dose toxicity data for more information on target organs if applicable.

Aspiration hazard

No information available.

Other

Chlorantraniliprole : Repeated dose toxicity:
Oral/multiple species
No toxicologically significant effects were found.
Dermal/Rat
No toxicologically significant effects were found.

Butanone : Repeated dose toxicity:
Oral/Rat
NOAEL: 5041,
Method: OECD Test Guideline 413
No toxicologically significant effects were found.
Inhalation/Rat 90 d
No toxicologically significant effects were found.

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12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Acute and prolonged toxicity to fish

Coragen® 20SC : LC50/96 h/Lepomis macrochirus (Bluegill sunfish): > 9.9 mg/l

Toxicity to aquatic plants

Coragen® 20SC : ErC50/72 h/Pseudokirchneriella subcapitata (green algae): > 20 mg/l

Acute toxicity to aquatic invertebrates

Coragen® 20SC : EC50/48 h/Daphnia magna (Water flea): 0.035 mg/l

Persistence and degradability

Butanone : Result: Biodegradable

Bioaccumulation

No information available.

Mobility in soil

No information available.

Other adverse effects

Coragen® 20SC : Environmental Hazards: Do not apply directly to water. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. See product label for additional application instructions relating to environmental precautions.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods : Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. Refer to the product label for instructions. Do not transport if this container is damaged or leaking.

Contaminated packaging : Do not re-use empty containers.

14. TRANSPORT INFORMATION

SS586:Part 1:2008

UN number : 3082

UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Chlorantraniliprole)

Transport hazard class : 9

Packing group : III

IMDG

UN number : 3082

UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Chlorantraniliprole)

Transport hazard class : 9

Packing group : III

Marine pollutant : yes

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IATA

UN number : 3082
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Chlorantraniliprole)
Transport hazard class : 9
Packing group : III

Special precaution which a user to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises : Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA special provision A197, and ADR/RID special provision 375.

15. REGULATORY INFORMATION

Workplace Safety and Health Act, WSH (General Provisions) Regulations 2006
Environmental Protection and Management Act, (Cap. 94A) and Environmental Protection and Management (Hazardous substances) Regulations, Reg 4

16. OTHER INFORMATION

References

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