

SAFETY DATA SHEET



CORAGEN®

Version 2.2

Revision Date 30.01.2017

Document no. 130000027866

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

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

Product name : CORAGEN®

Other names : B12498745

Recommended use of the chemical and restriction on use

Recommended use : Insecticide

Restrictions on use : Do not use product for anything outside of the above specified uses.

Manufacturer, importer, supplier, representative office

Company : E. I. DuPont India Pvt. Ltd.

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122002, Haryana
India

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Emergency telephone number : +91-124-4092888 / +91-124-2353777

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

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Components

Chemical name	CAS-No.	Concentration
Chlorantraniliprole	500008-45-7	18.4 %
Other Ingredients		81.6 %

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 (CO ₂)
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
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

No occupational exposure limit values are applicable.

Engineering measures	: Use only with adequate ventilation.
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Biological occupational exposure limits	: No information available.
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Personal protective equipment

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.

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- 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 : 1.08 - 1.10
(Relative density)

Solubility(ies)

- Water solubility : dispersible
Solubility in other solvents : slightly soluble

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

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Auto-ignition temperature

No information available.

Decomposition temperature : No information available.

Viscosity

Viscosity, kinematic : No information available.

Viscosity, dynamic : 400 - 800 mPa.s
30 rpm

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® : LD50/Rat: > 5,000 mg/kg

Inhalation

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

Dermal

CORAGEN® : LD50/Rat: > 5,000 mg/kg

Skin corrosion/irritation

CORAGEN® : Species: Rabbit
Result: No skin irritation

Serious eye damage/eye irritation

CORAGEN® : Species: Rabbit
Result: No eye irritation

Respiratory or skin sensitisation

CORAGEN® : Species: mice
Result: Animal test did not cause sensitization by skin contact.

Germ cell mutagenicity

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Chlorantraniliprole : 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.

Specific Target Organ Toxicity

No information available.

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.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Acute and prolonged toxicity to fish
CORAGEN® : LC50/96 h/Lepomis macrochirus (Bluegill sunfish): > 9.9 mg/l

Toxicity to aquatic plants
CORAGEN® : ErC50/72 h/Pseudokirchneriella subcapitata (green algae): > 20 mg/l

Acute toxicity to aquatic invertebrates
CORAGEN® : EC50/48 h/Daphnia magna (Water flea): 0.035 mg/l

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility in soil

No information available.

Other adverse effects

CORAGEN® : 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.

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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

IMDG

UN number : 3082
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Chlorantraniliprole)
Transport hazard class : 9
Packing group : III
Hazchem Code : .3Z
Marine pollutant : yes (Chlorantraniliprole)

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

Product subject to regulatory requirements under the Insecticides Act, 1968 and Insecticides Rules, 1971

16. OTHER INFORMATION

Sources of key data used to compile the Safety Data Sheet

1. The Factories Act, 1948, The Second Schedule: Permissible levels of certain chemical substances in work environment, as amended through April, 2001
2. Manufacture, Storage and Import of Hazardous Chemical Rules 1989, as amended through January 2000

References

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