

SAFETY DATA SHEET



CORAGEN®

Version 1.1

Revision Date 2018.07.12

Document no. 130000027866

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

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

Chemicals Name : CORAGEN®

Recommended use of the chemical and restriction on use

Recommended use : Insecticide

Manufacturer or supplier's details

Company : FMC Taiwan Co. Ltd.
Street address : 3F, No. 179, Fuhuiyuan Blvd, Xitun Dist., Taichung, Taiwan
Telephone : +886 (4) 2254 2785
Telefax : +886 4 2254 2831

Emergency telephone number : +886 2 28757525
(in case of chemical spill, fire or poisoning accident)

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
Chlorantraniliprole (Chlorantraniliprole)	500008-45-7	18.4 %
Other Ingredients (Other Ingredients)		81.6 %

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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.

First aid measures for different exposure routes

- 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.
- Main symptoms and hazards** : 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

- 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.

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- 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**

No information available.

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

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

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.
- 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.

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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 : 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.

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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® : 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/irritationCORAGEN® : 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**

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

CarcinogenicityChlorantraniliprole : 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.

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Specific Target Organ Toxicity

Specific target organ toxicity - repeated exposure

CORAGEN® : 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.

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.

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.

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14. TRANSPORT INFORMATION

IMDG

UN number : 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Chlorantraniliprole)
Class : 9
Packing group : III
Marine pollutant : yes

IATA

UN number : 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Chlorantraniliprole)
Class : 9
Packing group : III

Matters needing attention for transportation : 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

Occupational Health & Safety Installation Regulation
Regulation of Labeling and Hazard Communication of Dangerous and Harmful Chemicals
Standards on Workplace Atmosphere of Dangerous and Hazardous Materials
Rules on Road Traffic Safety
Criteria Governing Methods of and Facilities for Storage, Clearance and Disposal of Industrial Wastes
Public Hazardous Materials and Flammable Pressurized Gases Establishment Standards and Safety Control Regulations

16. OTHER INFORMATION

References

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Take notice of the directions of use on the label.

Significant change from previous version is denoted with a double bar.

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.