

**CORAGEN®**

Version 3.3

Revision Date 09.11.2010

Ref.130000027866

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

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product information**

Product name : CORAGEN®

Synonyms : DPX-E2Y45 20SC
: B12498745

Use of the Substance/Mixture : Insecticide

Company : DuPont de Nemours South Africa (Pty) Ltd
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Melrose Arch
South Africa

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E-mail address : sds-support@che.dupont.com

2. HAZARDS IDENTIFICATION

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	EC-No.	Registration number	Classification	Concentration [%]
Chlorantraniliprole	500008-45-7			N; R50/53	20

For the full text of the R-phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

General advice : Never give anything by mouth to an unconscious person.

Inhalation : No hazards which require special first aid measures. Consult a physician after significant exposure.

Skin contact : No hazards which require special first aid measures. If on skin, rinse well with water. Wash contaminated clothing before re-use.

Eye contact : Hold eye open and rinse slowly and gently with water for 15-20 minutes. If eye

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irritation persists, consult a specialist.

Ingestion : No hazards which require special first aid measures. Consult a physician if necessary.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water spray, Foam, Dry chemical, Carbon dioxide (CO₂),

Extinguishing media which shall not be used for safety reasons : High volume water jet, (contamination risk),

Specific hazards during fire fighting : Hazardous decomposition products formed under fire conditions. Carbon dioxide (CO₂) nitrogen oxides (NO_x)

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

(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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Use personal protective equipment. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Prevent further leakage or spillage if safe to do so. Use appropriate container to avoid environmental contamination. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. If the spill area is porous, the contaminated material must be collected for subsequent treatment or disposal. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for cleaning up : Clean-up methods - small spillage Soak up with inert absorbent material. Sweep up or vacuum up spillage and collect in suitable container for disposal.

Clean-up methods - large spillage Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Large spills should be collected mechanically (remove by pumping) for disposal. Collect leaking liquid in sealable (metal/plastic) containers. Collect and contain contaminated absorbent and dike material for disposal.

Additional advice : Never return spills in original containers for re-use. Dispose of in accordance

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with local regulations.

7. HANDLING AND STORAGE**Handling**

Advice on safe handling : Use only clean equipment. Do not breathe vapours or spray mist. Provide adequate ventilation. Wear personal protective equipment. For personal protection see section 8.

Storage

Requirements for storage areas and containers : Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.

Advice on common storage : No special restrictions on storage with other products.

Other data : Stable under recommended storage conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Engineering measures**

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection : Manufacturing and processing work: Half mask with vapour filter A1 (EN 141)

Respiratory protection : Mixer and loaders must wear: Half mask with vapour filter A1 (EN 141)

Respiratory protection : Spray application - outdoor: Half mask with a particle filter FFP1 (EN149)

Respiratory protection : Spray application - indoor: Half mask with a particle filter FFP1 (EN149)

Hand protection : Material: Nitrile rubber
 Glove thickness: 0,3 mm
 Glove length : Gauntlets
 Protection index: Class 6
 Wearing time: > 480 min
 The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it., Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time., The suitability for a specific workplace should be discussed with the producers of the protective gloves., Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough., Before removing gloves clean them with soap and water.

Eye protection : Safety glasses with side-shields conforming to EN166

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- Skin and body protection : Manufacturing and processing work: Full protective clothing Type 6 (EN 13034)
- Mixer and loaders must wear: Full protective clothing Type 6 (EN 13034)
Rubber or plastic boots
- Spray application - outdoor: Full protective clothing Type 4 (EN 14605) Rubber or plastic boots
- Spray application - indoor: Full protective clothing Type 4 (EN 14605) Rubber or plastic boots
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin and eyes. Wash hands and face before breaks and immediately after handling the product. When using do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs. For environmental protection remove and wash all contaminated protective equipment before re-use. Dispose of rinse water in accordance with local and national regulations.
- Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical damage or if contaminated.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : liquid, suspension,
- Colour : white,
- Odour : alcohol-like,
- pH : 7,8 at 10 g/l
- Freezing point : -6 °C
- Flash point : 100 °C
- Autoignition temperature : , not auto-flammable
- Explosive properties : Not explosive
- Relative density : 1,094
- Solubility in other solvents : slightly soluble,
- Viscosity, dynamic : 583 mPa.s

10. STABILITY AND REACTIVITY

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- Materials to avoid : No materials to be especially mentioned.
- Hazardous reactions : No dangerous reaction known under conditions of normal use. Polymerization will not occur. Stable at normal temperatures and storage conditions.

11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity : LD50/ rat: > 5 000 mg/kg Method: OECD Test Guideline 425
Information source: Internal study report
(Data on the product itself)
- Acute inhalation toxicity : LC50/ 4 h / rat : > 2 mg/l
Method: OECD Test Guideline 403
Information source: Internal study report
(Data on the product itself)
- Acute dermal toxicity : LD50/ rat > 5 000 mg/kg
Method: OECD Test Guideline 402
Information source: Internal study report
(Data on the product itself)
- Skin irritation : rabbit
Result: No skin irritation Method: OECD Test Guideline 404 Information source:
Internal study report (Data on the product itself)
- Eye irritation : rabbit
Result: No eye irritation Method: OECD Test Guideline 405 Information source:
Internal study report (Data on the product itself)
- Sensitisation : Local lymph node test mouse Result: Animal test did not cause sensitization by
skin contact. Method: OECD Test Guideline 429 Information source: Internal
study report (Data on the product itself)
- Mutagenicity assessment
Chlorantraniliprole : Did not cause genetic damage in animals., Did not cause genetic damage in
cultured mammalian cells., Did not cause genetic damage in cultured bacterial
cells.
- Carcinogenicity assessment
• Chlorantraniliprole : Animal testing did not show any carcinogenic effects.
- Toxicity to reproduction assessment
• Chlorantraniliprole : Animal testing showed no reproductive toxicity.

12. ECOLOGICAL INFORMATION**Elimination information (persistence and degradability)**

- Biodegradability : Not readily biodegradable. Estimation based on data obtained on active
ingredient.
- Bioaccumulation : This mixture contains no substance considered to be persistent,

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bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Ecotoxicity effects

- Toxicity to fish : static test LC50/ 96 h/ Oncorhynchus mykiss (rainbow trout) :: > 9,9 mg/l
Method: OECD Test Guideline 203
Information source: Internal study report (Data on the product itself)
- static test LC50/ 96 h/ Lepomis macrochirus (Bluegill sunfish) :: 3,2 mg/l
Method: OECD Test Guideline 203
Information source: Internal study report (Data on the product itself)
- Toxicity to algae : / EbC50/ 72 h/ Pseudokirchneriella subcapitata (green algae): > 4,0 mg/l
Method: OECD Test Guideline 201
Information source: Internal study report (Data on the product itself)
- Toxicity to daphnia : static test / EC50/ 48 h/ Daphnia: 0,0071 mg/l
Method: OECD Test Guideline 202
Information source: Internal study report (Data on the product itself)
- Chronic toxicity to fish
- Chlorantraniliprole : / NOEC/ 28 d/ Oncorhynchus mykiss (rainbow trout): 0,110 mg/l
- Chronic toxicity to aquatic Invertebrates
- Chlorantraniliprole : / NOEC/ 21 d/ Daphnia magna (Water flea): 0,00447 mg/l

13. DISPOSAL CONSIDERATIONS

- Product : In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate ponds, waterways or ditches with chemical or used container.
- Contaminated packaging : Do not re-use empty containers.

14. TRANSPORT INFORMATION**ADR**

Class: 9
Packaging group: III
Classification Code: M6
HI No.: 90
UN number: 3082
Labelling No.: 9
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Chlorantraniliprole)

IMDG

Class: 9

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Packaging group:	III
UN number:	3082
Labelling No.:	9
Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (Chlorantraniliprole)
Marine pollutant:	Marine pollutant
Further information	: Optional classification as per IATA Special Provision A97., Not classified as dangerous in the meaning of air transport regulations.

15. REGULATORY INFORMATION**Labelling according to EC Directives**

Symbol(s)	: N	Dangerous for the environment
Hazardous components:	Chlorantraniliprole	
R-phrase(s)	: R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	: S 2 S13 S20/21 S46 S35 S57 SP 1	Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke. If swallowed, seek medical advice immediately and show this container or label. This material and its container must be disposed of in a safe way. Use appropriate container to avoid environmental contamination. Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).
Special labelling of certain mixtures	: To avoid risks to man and the environment, comply with the instructions for use.	
Sensitising components	contains: 1,2-Benzisothiazol-3(2H)-one	May produce an allergic reaction.

16. OTHER INFORMATION**Text of R-phrases mentioned in Section 3**

R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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Further information



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Before use read DuPont's safety information., Take notice of the directions of use on the label.

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

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.