


Steward® EC

Version 2.1

Revision Date 27.08.2007

Ref. 130000027381

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

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

Trade name : Steward® EC
 Use of the : Insecticide
 Substance/Preparation :
 Company : Du Pont (Australia) Ltd
 168 Walker Street
 North Sydney NSW 2060
 Australia

Telephone : (02) 9923 6111
 Telefax : (02) 9923 6011
 Emergency telephone : 1800 024 973 (Transport Emergency)
 (24 hr Emergency Medical Information: 1800 674 415)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : B12109700

Components

Chemical Name	CAS-No.	Concentration
Indoxacarb	173584-44-6	15.84 %
Inert Ingredients		84.16 %

3. HAZARDS IDENTIFICATION
Hazardous classification

Not classified as dangerous goods according to the ADG Code.

Optional classification as per IATA Special Provision A97.

Classified as hazardous according to criteria of NOHSC.

Risks

Harmful if swallowed.

Irritating to skin.

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

Safety data

Keep out of reach of children.

Keep away from food, drink and animal feeding stuffs.

When using do not eat, drink or smoke.

Avoid contact with skin.

Wear suitable gloves.

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).


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4. FIRST AID MEASURES

- General advice : Never give anything by mouth to an unconscious person.
- Inhalation : Move to fresh air. Oxygen or artificial respiration if needed. Consult a physician.
- Skin contact : Wash off immediately with soap and plenty of water. Take off contaminated clothing and shoes immediately. In the case of skin irritation or allergic reactions see a physician. Wash contaminated clothing before re-use.
- Eye contact : If in eyes, rinse with water for 15 minutes. Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
- Ingestion : Do not induce vomiting without medical advice. Obtain medical attention. If victim is conscious: Drink 1 or 2 glasses of water.

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)
- 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.
- 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 product contaminates rivers and lakes or drains inform respective authorities.
- Methods for cleaning up : Soak up with inert absorbent material. Clean up promptly by sweeping or vacuum. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Use approved industrial vacuum cleaner for removal. Shovel into suitable container for disposal.


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

7. HANDLING AND STORAGE
Handling

Advice on safe handling : Provide adequate ventilation. Wear personal protective equipment.

Advice on protection against fire and explosion : Keep away from heat and sources of ignition.

Storage

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

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

Storage temperature : > 3 - < 54 °C

Other data : Protect from freezing. Stable under recommended storage conditions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

We are not aware of any national exposure limit.

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection : Half mask with a particle filter FFP2 (EN149)

Hand protection : Material: Nitrile rubber
 Glove thickness: 0.4 - 0.7 mm
 Wearing time: 480 min
 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.

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

Skin and body protection : Lightweight protective clothing Full protective clothing Type 3 - 4 (EN 14605)

Hygiene measures : Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. For environmental protection remove and wash all contaminated protective equipment before re-use.

Protective measures : All chemical protective clothing should be visually inspected prior to use.

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Clothing and gloves should be replaced in case of chemical or physical damage or if contaminated.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: liquid
Colour	: amber
Odour	: of burnt sugar
pH	: 6.6 at 10 g/l (25 °C)
Flash point	: > 100 °C
Explosive properties	: Not explosive
Density	: 0.947 g/cm ³ at 20 °C
Viscosity, dynamic	: 5.6 mPa/s at 25 °C

10. STABILITY AND REACTIVITY

Conditions to avoid	: Temperature : < 54 °C Protect from frost.
Materials to avoid	: No materials to be especially mentioned.
Hazardous decomposition products	: Carbon oxides, nitrogen oxides (NO _x)
Hazardous reactions	: No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50/rat : 976.8 mg/kg
Acute inhalation toxicity	: LC50/4 h/rat : > 5.2 mg/l
Acute dermal toxicity	: LD50/rat : > 5,000 mg/kg
Skin irritation	: Irritating to skin.
Eye irritation	: No eye irritation
Sensitisation	: Animal test did not cause sensitization by skin contact.
Mutagenicity assessment	: Did not show mutagenic effects in animal experiments.
Carcinogenicity assessment	: Did not show carcinogenic effects in animal experiments.

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Toxicity to reproduction assessment : Animal testing did not show any effects on fertility. Animal testing did not show any effects on foetal development.

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

Bioaccumulation : This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Toxicity to fish
• Indoxacarb : LC50/96 h/Oncorhynchus mykiss (rainbow trout): 3.2 mg/l

Toxicity to algae
• Indoxacarb : EC50/120 h/Selenastrum capricornutum (green algae): 0.11 mg/l

Aquatic toxicity
• Indoxacarb : EC50/48 h/Daphnia magna (Water flea): 0.60 mg/l

Further information on ecology

Additional ecological information : No data is available on the product itself.

13. DISPOSAL CONSIDERATIONS

Product : In accordance with local and national regulations. Do not contaminate ponds, waterways or ditches with chemical or used container.

Contaminated packaging : Do not re-use empty containers.

14. TRANSPORT INFORMATION**IMDG**

UN-Number : 3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(Indoxacarb)
Class : 9
Packaging group : III
Labelling No. : 9
Marine pollutant : yes (Indoxacarb)

Further information : Not classified as dangerous goods according to the ADG Code.
Optional classification as per IATA Special Provision A97.


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15. REGULATORY INFORMATION
Labelling

Symbol(s)	: Xn N	Harmful Dangerous for the environment
Hazardous components	: Indoxacarb	
R-phrases(s)	: R22 R38 R51/53	Harmful if swallowed. Irritating to skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases(s)	: S 2 S13 S20/21 S24 S37 S46 S35 S57 SP 1	Keep out of reach of children. Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Avoid contact with skin. Wear suitable gloves. 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).
Further information	: Classified as hazardous according to criteria of NOHSC.	

National regulatory information

SUSDP : Schedule 6
To avoid risks to man and the environment, comply with the instructions for use.

16. OTHER INFORMATION
Sources of key data used to compile the Safety Data Sheet:

1. National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]
2. Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]
3. List of Designated Hazardous Substances [NOHSC:10005(1999)]
4. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]
5. Australian Dangerous Goods Code, No. 6 [National Road Transport Commission]
6. Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP), No. 19 [NDPSC: 2004]
7. National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]

Department:

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Further information:

Take notice of the directions of use on the label.

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 guidance 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.