

Steward® EC Insecticide

Version 1.0

Revision Date 03.01.2018

Document no. 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/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : Steward® EC Insecticide

Other names : B12109700
DPX-KN128 150EC

Recommended use of the chemical and restriction on use

Recommended use : Insecticide

Manufacturer, importer, supplier

Company : FMC Australasia Pty Ltd
Street address : Building B' Level 2, 12 Julius Avenue,
NORTH RYDE, NSW 2113
Australia

Telephone : (02) 9923 6111
Telefax : (02) 9923 6011

Emergency telephone number : (02) 9923 6275 (Transport Emergency)
(24 hr Emergency Medical Information: 1800 674 415)

2. HAZARDS IDENTIFICATION**Product hazard classification**

Flammable liquids : Category 4
Acute toxicity (Oral) : Category 4
Specific target organ toxicity - single exposure : Category 2 (Central nervous system)
Specific target organ toxicity - repeated exposure : Category 1 (Central nervous system)
Acute aquatic toxicity : Category 2
Chronic aquatic toxicity : Category 2

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

Label content

Pictogram :



Signal word : Danger

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- Hazardous warnings** : Combustible liquid.
Harmful if swallowed.
May cause damage to organs. (Central nervous system)
Causes damage to organs through prolonged or repeated exposure. (Central nervous system)
Toxic to aquatic life with long lasting effects.
- Precautionary statements** : Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/ eye protection/ face protection.
IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
Rinse mouth.
IF exposed or if you feel unwell: Call a POISON CENTER or doctor/ physician.
Get medical advice/ attention if you feel unwell.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
Collect spillage.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/ container to an approved waste disposal plant.

Other hazards

May irritate eyes, nose, throat or skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS
Chemical nature : Mixture

Components

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

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre. In Australia 13 11 26.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

- Inhalation** : Remove person to fresh air. If signs/symptoms continue, get medical attention.
Artificial respiration and/or oxygen may be necessary.
- Skin contact** : Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison information centre or doctor for treatment advice.
- Eye contact** : Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison information centre or doctor for treatment advice.
- Ingestion** : Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Call a poison information centre or doctor for treatment advice.

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Most important symptoms/effects, acute and delayed : No information available.

Protection of first-aiders : No information available.

Notes to physician : Treat symptomatically.

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 : No information available.

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

Hazchem Code : .3Z

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus. Use personal 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.

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.

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Precautions for safe handling : No information available.

Storage

Suitable storage conditions : Store in original container. Store in a cool, dry, well-ventilated area. Keep away from direct sunlight. 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 : None specified.

Hand protection : Material: Polyvinyl chloride - PVC
Glove length: Long sleeve gloves

Eye protection : None specified.

Skin protection : When opening the container, preparing spray and using the prepared spray, Wear cotton overalls buttoned to neck and wrist, and a washable hat., elbow-length PVC gloves

Hygiene measures : Avoid contact with skin, eyes and clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wash all protective clothing after use. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

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
Colour : amber

Odour : faint burn smell

Odour Threshold : No information available.

pH : 6.6 (20 °C)

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(1% solution in water)

Melting point/freezing point

No information available.

Initial boiling point and boiling range

No information available.

Flash point : 69 °C**Evaporation rate** : No information available.**Flammability (solid, gas)** : No information available.**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**

Density : (20 °C)

Solubility(ies)

Water solubility : No information available.

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 : 5.6 mPa.s (25 °C)

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** : No information available.**Conditions to avoid** : No information available.**Materials to avoid** : None reasonably foreseeable.

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Hazardous decomposition products : No information available.

11. TOXICOLOGICAL INFORMATION
Acute toxicity

Oral

Steward® EC Insecticide : LD50/Rat female: 977 mg/kg

Inhalation

Steward® EC Insecticide : LC50/4 h/Rat(dust/mist): > 5.2 mg/l

Dermal

Steward® EC Insecticide : LD50/Rat: > 5,000 mg/kg

Skin corrosion/irritation
Steward® EC Insecticide : Species: Rabbit
Result: Mild skin irritation
Serious eye damage/eye irritation
Steward® EC Insecticide : Species: Rabbit
Result: No eye irritation
Respiratory or skin sensitisation
Steward® EC Insecticide : Species: Guinea pig
Result: Did not cause sensitisation on laboratory animals.
Germ cell mutagenicity

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

Carcinogenicity

Indoxacarb : Animal testing did not show any carcinogenic effects.

Reproductive toxicity
Indoxacarb : Reproductive toxicity: Animal testing did not show any effects on fertility. No toxicity to reproduction
Teratogenicity: Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.
Specific Target Organ Toxicity

Specific target organ toxicity - single exposure

Indoxacarb : Target Organs: Central nervous system
The substance or mixture is classified as specific target organ toxicant, single exposure, category 2.

Specific target organ toxicity - repeated exposure

Steward® EC Insecticide : Refer to acute toxicity and/or repeated dose toxicity data for more information on target organs if applicable.

Aspiration hazard

Steward® EC Insecticide : No aspiration toxicity classification

Other
Indoxacarb : Repeated dose toxicity:
Inhalation/Rat
Target Organs: Central nervous system, Blood

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Central nervous system effects, Incoordination, Increased mortality or reduced survival, altered hematology
 Oral/multiple species
 Target Organs: Blood
 altered hematology

12. ECOLOGICAL INFORMATION
Ecotoxicity effects

Acute and prolonged toxicity to fish

Steward® EC Insecticide : LC50/96 h/Oncorhynchus mykiss (rainbow trout): 7.0 mg/l

Toxicity to aquatic plants

Steward® EC Insecticide : ErC50/72 h/Pseudokirchneriella subcapitata (green algae): > 16 mg/l

Acute toxicity to aquatic invertebrates

Steward® EC Insecticide : EC50/48 h/Daphnia magna (Water flea): 1.67 mg/l

Chronic toxicity to fish

Indoxacarb : Early Life-Stage/NOEC/90 d/Oncorhynchus mykiss (rainbow trout): 0.15 mg/l

Chronic toxicity to aquatic Invertebrates

Indoxacarb : NOEC/21 d/Daphnia magna (Water flea): 0.9 mg/l

Persistence and degradability

Steward® EC Insecticide : Not readily biodegradable. Estimation based on data obtained on active ingredient.

Bioaccumulation

Steward® EC Insecticide : Does not bioaccumulate. Estimation based on data obtained on active ingredient.

Mobility in soil

No information available.

Other adverse effects

Steward® EC Insecticide : See product label for additional application instructions relating to environmental precautions.

13. DISPOSAL CONSIDERATIONS
Waste disposal methods : Do not contaminate ponds, waterways or ditches with chemical or used container.

Contaminated packaging : Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture, and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

SAFETY DATA SHEET



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ADG

UN number : 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Indoxacarb)
Class : 9
Packing group : III
Hazchem Code : .3Z

IMDG

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

IATA

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

Matters needing attention for transportation : Not dangerous goods under ADG code when being transported in IBCs or other receptacles < 500 kg (Special Provision AU01). 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

SUSMP: Schedule 6
APVMA Number: 59573

16. OTHER INFORMATION

References

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Date of first preparation : 03.01.2018
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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.