

SAFETY DATA SHEET



DuPont™ Steward® eVo insecticide

Version 2.0

Revision Date 16.02.2016

Document no. 130000027381

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

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

Product name : DuPont™ Steward® eVo insecticide

Other names : B12109700
DPX-KN128 150EC

Recommended use of the chemical and restriction on use

Recommended use : Insecticide

Manufacturer, importer, supplier

Company : DuPont (New Zealand) Limited
Street address : Level 1, 14 Ormiston Road, East Tamaki, Auckland 2016
New Zealand
Telephone : 0800 658080
Telefax : (09)-271-2961

Emergency telephone number : NZ Poisons Information Centre Ph: 0800 764766
24-hour Medical Emergency: 0800 111174 Transport Emergency: 0800 387668

2. HAZARDS IDENTIFICATION

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001
Classified as a Dangerous Good according to NZS 5433

HSNO Classification:

6.1D : Acute toxicity (Oral)
6.5B : Skin sensitisation
6.9A : Specific Target Organ Toxicity (Central nervous system)
9.1D : Aquatic toxicity (Acute or Chronic)
9.3C : Ecotoxic to terrestrial vertebrates
9.4A : Ecotoxic to terrestrial invertebrates

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** : Harmful if swallowed.
May cause an allergic skin reaction.
Causes damage to organs through prolonged or repeated exposure. (Central nervous system)
Toxic to aquatic life.
May cause long lasting harmful effects to aquatic life.
Harmful to terrestrial vertebrates.
Very toxic to terrestrial invertebrates.
- Precautionary statements** : Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves.
IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
IF ON SKIN: Wash with plenty of soap and water.
Get medical advice/ attention if you feel unwell.
Specific treatment (see supplemental first aid instructions on this label).
Rinse mouth.
If skin irritation or rash occurs: Get medical advice/ attention.
Wash contaminated clothing before reuse.
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
Indoxacarb	173584-44-6	15.84 %
Other Ingredients		84.16 %

4. FIRST AID MEASURES

Never give anything by mouth to an unconscious person.
Contact the National Poisons Centre 0800 POISON (0800 764766) or a doctor if you feel unwell.

- Inhalation** : Move to fresh air. Consult a physician after significant exposure. 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** : Call a physician or poison control centre immediately. DO NOT induce vomiting unless directed to do so by a physician or poison control center. If victim is conscious: Rinse mouth with water.

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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 : 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.

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 : 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.

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

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7. HANDLING AND STORAGE**Handling**

Technical measures/Precautions : Keep out of reach of children. Avoid contact with skin and eyes. Avoid breathing dust or spray mist. When using do not eat, drink or smoke. Wash hands and face before breaks and after work.

Precautions for safe handling : Keep away from heat and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded.

Storage

Suitable storage conditions : Keep out of the reach of children. Store in original container. Keep container tightly closed. Keep locked up. Store in a cool, dry, well-ventilated area. Keep away from direct sunlight. Do not store with feed, seeds or foodstuffs.

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: Waterproof gloves

Eye protection : None specified.

Skin protection : When mixing or applying wear:., Waterproof gloves, hat, overalls, Footwear (shoes, boots).

Hygiene measures : Avoid breathing dust or spray mist. When using do not eat, drink or smoke. Wash hands and face before breaks and after work. Wash splashes of concentrate from skin and eyes immediately

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance (Physical state, form, colour, etc.)**

Physical state : liquid
Form : liquid
Colour : amber

Odour : faint burn smell

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Odour Threshold : No information available.**pH** : 6.6 (20 °C)
(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 : emulsifiable

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.

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Materials to avoid : None reasonably foreseeable.

Hazardous decomposition products : No information available.

11. TOXICOLOGICAL INFORMATION
Acute toxicity
Oral

DuPont™ Steward® eVo insecticide : LD50/Rat female: 977 mg/kg

Inhalation

DuPont™ Steward® eVo insecticide : LC50/4 h/Rat(dust/mist): > 5.2 mg/l

Dermal

DuPont™ Steward® eVo insecticide : LD50/Rat: > 5,000 mg/kg

Skin corrosion/irritation

DuPont™ Steward® eVo insecticide : Species: Rabbit
Result: Mild skin irritation

Serious eye damage/eye irritation

DuPont™ Steward® eVo insecticide : Species: Rabbit
Result: No eye irritation

Respiratory or skin sensitisation

DuPont™ Steward® eVo 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

DuPont™ Steward® eVo insecticide : Refer to acute toxicity and/or repeated dose toxicity data for more information on target organs if applicable.

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Aspiration hazard

DuPont™ Steward® eVo insecticide : No aspiration toxicity classification

Other

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

DuPont™ Steward® eVo insecticide : LC50/96 h/Oncorhynchus mykiss (rainbow trout): 7.0 mg/l

Toxicity to aquatic plants

DuPont™ Steward® eVo insecticide : ErC50/72 h/Pseudokirchneriella subcapitata (green algae): > 16 mg/l

Acute toxicity to aquatic invertebrates

DuPont™ Steward® eVo 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

DuPont™ Steward® eVo insecticide : Not readily biodegradable. Estimation based on data obtained on active ingredient.

Bioaccumulation

DuPont™ Steward® eVo insecticide : Does not bioaccumulate. Estimation based on data obtained on active ingredient.

Mobility in soil

No information available.

Other adverse effects

DuPont™ Steward® eVo insecticide : See product label for additional application instructions relating to environmental precautions.

13. DISPOSAL CONSIDERATIONS

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- Waste disposal methods** : In accordance with local and national regulations. Container disposal: Ensure container is empty. Bury in landfill in accordance with local, regional and national legislations. Refer to the product label for instructions.
- Contaminated packaging** : Triple rinse containers. Add rinsings to spray tank. If not recycling, burn if circumstances permit otherwise bury in an approved landfill. Do not re-use empty containers. Dispose of this product only by using according to this label. Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

NZS 5433

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

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** : Marine Pollutants 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 and IATA special provision A197. If the product meets these special provisions, it may be shipped in New Zealand as a non-dangerous goods under provisions in NZS 5433 code which accepts IMDG and IATA classification.

15. REGULATORY INFORMATION

- HSNO Number : HSR000583
- HSNO Controls : F2, F6, F11
T1, T2, T3, T4, T5, T7, T8
E1, E2, E6
I1, I3, I5, I8, I9, I11, I13, I16, I17, I18, I19, I20, I21, I23, I25, I28, I29, I30
P1, P3, P13, P15, PG2, PG3
D2, D4, D5, D6, D7, D8
EM1, EM4, EM6, EM7, EM8, EM9, EM10, EM11, EM12, EM13

ACVM Number: P009271

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16. OTHER INFORMATION**References**

SDS Number: 130000027381

Revision Date/Version

Date of first preparation : 16.02.2016

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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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