

DuPont™ Avaunt®

Version 2.1

Revision Date 2013/07/02

Ref. 13000027381

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

Product name : DuPont™ Avaunt®
Other names : B12109700
 DPX-KN128 150EC

Recommended use of the chemical and restriction on use

Recommended use : Insecticide

Manufacturer or supplier's details

Company : DuPont Taiwan Limited
 Street address : Taiwan, Taipei, 167 Tun Hwa North Road, Hung Kuo Building, 13th Floor
 Telephone : (02) 2719 1999
 Telefax : (02) 2712 9526

Emergency telephone number : 0800 055 119
 (in case of chemical spill, fire or poisoning accident)

2. HAZARDS IDENTIFICATION
Product hazard category

Acute toxicity (Oral)	Category 4
Skin irritation	Category 3
Specific target organ toxicity - single exposure	Category 2
Specific target organ toxicity - repeated exposure	Category 1
Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 2

Label content

Pictogram :



Signal word : Danger

Hazardous warnings : Harmful if swallowed.
 Causes mild skin irritation.
 May be harmful if inhaled.
 Toxic to aquatic life with long lasting effects.
 May cause damage to organs. (Central nervous system)
 Causes damage to organs through prolonged or repeated exposure. (Central nervous system)


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Hazardous prevention measures :

- 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.
- IF INHALED: Call a POISON CENTER or doctor/ physician if you feel unwell.
- IF exposed or if you feel unwell: Call a POISON CENTER or doctor/ physician.
- 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.
- Store locked up.
- Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Preparation

Components

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

4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

First aid measures for different exposure routes

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 control center 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 control center 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 control center or doctor for treatment advice.

Main symptoms and hazards : No information available.

Protection of first-aiders : Give First Aid at safe zone with C class Personal Protective Equipment.


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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 : (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.
- Specific firefighting procedures : Refer to specific hazards section.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Use personal protective equipment.
 Never return spills in original containers for re-use. Dispose of in accordance with local regulations.
- Environmental precautions : Prevent material from entering sewers, waterways, or low areas.
- Methods for cleaning up : Soak up with sawdust, sand, oil dry or other absorbent material. Dispose of in an approved container.

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 : No information available.

Storage

- Suitable storage conditions : Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store product in original container only in a location inaccessible to children and pets. Not for use or storage in or around the home. Keep out of the reach of children.

Storage temperature: > 0 °C


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8. EXPOSURE PREVENTION MEASURES

Engineering measures : No information available.

Control parameters

Chemical Name	Occupational Exposure Limits		Regulation
Toluene	TWA	20 ppm	US. ACGIH Threshold Limit Values (2011)
	TWA	100 ppm, 376 mg/m3 (SKIN)	Standards on Workplace Atmosphere of Dangerous and Hazardous Materials (12 2003)

Biological standards : 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 and body protection : Wear protective clothing such as gloves, apron, boots, or coveralls, as appropriate.

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.

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 data available

pH : 6.6 (20 °C)
(1% solution in water)

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Melting point/freezing point

no data available

Boiling point/boiling range

no data available

Flammability (solid, gas) : no data available**Flash point** : 69 °C**Decomposition temperature** : no data available**Auto-ignition temperature** : no data available**Explosion limits**

Upper explosion limit : no data available

Lower explosion limit : no data available

Vapour pressure : no data available**Vapour density** : no data available**Density**

Density : 0.947 GJ (20 °C)

Solubility(ies)

Water solubility : no data available

Solubility in other solvents : no data available

Partition coefficient: : no data available**n-octanol/water****Volatility rate** : no data available**Other data** : Viscosity, dynamic: 5.6 mPa.s (25 °C)**10. STABILITY AND REACTIVITY**

Stability : Stable at normal temperatures and storage conditions.

Possible hazardous reactions under specific conditions : 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 : DuPont™ Avaunt®:
Oral: LD50/rat female: 977 mg/kg
Inhalation: LC50/4 h/rat : > 5.2 mg/l
Dermal: LD50/rat : > 5,000 mg/kg

Skin corrosion/irritation : DuPont™ Avaunt®:
Species: rabbit
Result: Irritating to skin.

Serious eye damage/eye irritation : DuPont™ Avaunt®:
Species: rabbit
Result: No eye irritation

Respiratory sensitisation / Skin sensitisation : DuPont™ Avaunt®:
Species: guinea pig
Result: Animal test did not cause sensitization by skin contact.

Mutagenicity : Indoxacarb:
Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Did not cause genetic damage in animals.

Carcinogenicity : Indoxacarb:
Did not show carcinogenic effects in animal experiments.

Reproductive toxicity : Indoxacarb:
Animal testing did not show any effects on fertility.
Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

Target Organs : Refer to acute toxicity and/or repeated dose toxicity data for more information on target organs if applicable.

Aspiration toxicity : no data available


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Other : Indoxacarb:

The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Repeated dose toxicity: Oral, rat
Incoordination, Increased mortality or reduced survival, Red blood cell destruction causing abnormal decrease in number of red blood cells (anaemia)

12. ECOLOGICAL INFORMATION
Ecotoxicity effects

Toxicity to fish : DuPont™ Avaunt®:

LC50/96 h/Oncorhynchus mykiss (rainbow trout): 7.0 mg/l

Other : DuPont™ Avaunt®:

ErC50/72 h/Pseudokirchneriella subcapitata (green algae): > 16 mg/l

EC50/48 h/Daphnia magna (Water flea): 1.67 mg/l

Persistence and degradability : no data available

Bioaccumulation : no data available

Mobility in soil : no data available

Other adverse effects : DuPont™ Avaunt®:

See product label for additional application instructions relating to environmental precautions.

13. DISPOSAL CONSIDERATIONS

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


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14. TRANSPORT INFORMATION
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_C

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

Matters needing attention : No information available.
 for transportation

15. REGULATORY INFORMATION

Occupational Health & Safety Installation Regulation
 Rules on Hazard Communication and Labeling of Hazardous Substances
 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

Literary reference : US MSDS No.: M0000591
 Department : Name: Asia Pacific Regulatory Group
 Telephone: +61 2 9923 6111
 Responsible/issuing person : Regulatory Affairs
 Revision Date : 2013/07/10

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