

**DuPont™ Avaunt® Insecticide**

Version 2.0

Revision Date 02/14/2011

Ref. 13000000325

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

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DuPont™ Avaunt® Insecticide
Tradename/Synonym : Avaunt 30WG
Avaunt WG Insecticide
DPX-MP062 30WG
B10596913
INDOXACARB: (S)-methyl 7-chloro-2,5-dihydro-2-[[[(methoxy-carbonyl)-
[4(trifluoromethoxy)phenyl]amino)carbonyl]indeno[1,2-e][1,3,4] oxadiazine-4a-
(3H)-carboxylate

MSDS Number : 13000000325

Product Use : Insecticide

Manufacturer : DuPont
1007 Market Street
Wilmington, DE 19898

Product Information : 1-800-441-7515 (outside the U.S. 1-302-774-1000)
Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)
Transport Emergency : CHEMTREC: 1-800-424-9300 (outside the U.S. 1-703-527-3887)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Caution

Harmful if swallowed. Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling. Harmful if inhaled. Avoid breathing dust. Avoid breathing vapours or mist. Remove and wash contaminated clothing before re-use. This product is toxic to fish. Toxic to bees. This product is toxic to: Mammals Birds Aquatic invertebrates

Potential Health Effects

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This section includes potential acute adverse effects which could occur if this material is not used according to the label.

Skin : May cause: Irritation with discomfort or pain, redness or rash, itching or swelling.

Eyes : May cause: Irritation with discomfort, pain, redness, or visual impairment.

Inhalation : Dust may cause: Respiratory irritation, Cough, Discomfort.

Ingestion

Indoxacarb (S-Enantiomer) : altered blood chemistry Abnormal decrease in number of red blood cells (anaemia) which could produce tiredness, rapid heartbeat, dizziness, pale skin, leg cramps, shortness of breath, Central nervous system effects.

Target Organs

Indoxacarb (S-Enantiomer) : Central nervous system

Carcinogenicity

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Indoxacarb (S-Enantiomer)	173584-44-6	30 %
Other Ingredients		70 %

SECTION 4. FIRST AID MEASURES

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- 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.
- Inhalation** : Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.
- Ingestion** : Call a poison control center or doctor for treatment advice. 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. Do not give anything by mouth to an unconscious person.
- General advice** : Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
For medical emergencies involving this product, call toll free 1-800-441-3637.
See Label for Additional Precautions and Directions for Use.

SECTION 5. FIRE-FIGHTING MEASURES**Flammable Properties**

Flash point : not applicable

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

Unsuitable extinguishing media : High volume water jet, (contamination risk)

Firefighting Instructions : In the event of fire, wear self-contained breathing apparatus. (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.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Spill Cleanup : Sweep up and shovel into suitable containers for disposal.

Accidental Release Measures : Prevent material from entering sewers, waterways, or low areas. Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE

Handling (Personnel) : Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing.

Storage : 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.

Storage temperature : > 0 °C (> 32 °F)

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Skin and body protection : Applicators and other handlers must wear:
Long sleeved shirt and long pants
Chemical-resistant gloves, Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all greater than or equal to 14 mils
Shoes plus socks
Personal protective equipment required for early entry:
Coveralls worn over long-sleeved shirt and long pants
Chemical resistant footwear plus socks
Chemical-resistant gloves, Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all greater than or equal to 14 mils


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Protective measures : Use this product in accordance with its label. 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.

Exposure Guidelines

Exposure Limit Values

Indoxacarb (S-Enantiomer)

AEL * (DUPONT) 1 mg/m³ 8 & 12 hr. TWA Respirable.

Silica gel, precipitated, crystalline-free

PEL: (OSHA) 5 mg/m³ 8 hr. TWA Respirable fraction.

PEL: (OSHA) 15 mg/m³ 8 hr. TWA Total dust.

PEL: (OSHA) 20millions of particles per cubic foot of air TWA

PEL: (OSHA) 0.8 mg/m³ TWA
Remarks

The exposure limit is calculated from the equation, $80/(\%SiO_2)$, using a value of 100% SiO₂. Lower values of % SiO₂ will give higher exposure limits.

TLV (ACGIH) 10 mg/m³ 8 hr. TWA

AEL * (DUPONT) 3 mg/m³ 8 & 12 hr. TWA Respirable dust.

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : solid, dry, free flowing granules
 Color : dark brown
 Odor : mild, woody
 pH : 7.5 at 10 g/l 20 °C (68 °F)
 Oxidizing : The product is not oxidizing.
 Density : 0.8 g/ml


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SECTION 10. STABILITY AND REACTIVITY

- Stability : Stable at normal temperatures and storage conditions.
- Incompatibility : None reasonably foreseeable.

SECTION 11. TOXICOLOGICAL INFORMATION

- DuPont™ Avaunt® Insecticide
- Inhalation 4 h LC50 : > 5.6 mg/l , rat
- Dermal LD50 : > 5,000 mg/kg , rat
- Oral LD50 : 1,867 mg/kg , male, rat
- Oral LD50 : 687 mg/kg , female, rat
- Skin irritation : slight irritation, rabbit
- Eye irritation : Moderate eye irritation, rabbit
- Sensitisation : Animal test did not cause sensitization by skin contact., guinea pig
- Indoxacarb (S-Enantiomer)
- Repeated dose toxicity :
- The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.
- Inhalation
rat
Incoordination, Increased mortality or reduced survival
- Oral
rat
Red blood cell destruction causing abnormal decrease in number of red blood cells (anaemia), Respiratory irritation
- Carcinogenicity : Did not show carcinogenic effects in animal experiments.
- Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic


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effects.

Did not cause genetic damage in animals.

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

SECTION 12. ECOLOGICAL INFORMATION
Aquatic Toxicity

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96 h LC50 : Oncorhynchus mykiss (rainbow trout) 1.8 mg/l

72 h EbC50 : Pseudokirchneriella subcapitata (green algae) > 1.2 mg/l

48 h EC50 : Daphnia magna (Water flea) 1.7 mg/l

Indoxacarb (S-Enantiomer)

21 d : NOEC Daphnia magna (Water flea) 1 mg/l

Toxicity to other organisms

Indoxacarb (S-Enantiomer)

LD50 : Colinus virginianus (Bobwhite quail) 98 mg/kg

 LC50 : Colinus virginianus (Bobwhite quail) 808 mg/kg
Dietary

 LC50 : Anas platyrhynchos (Mallard duck) > 5,620 mg/kg
Dietary

- Additional ecological information : Environmental Hazards: This product is toxic to fish. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate. Do not apply where/when conditions favour runoff. Run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. Very toxic to bees. Do not apply this product while bees are actively visiting the treatment area. See product label for additional application instructions relating to environmental precautions.


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SECTION 13. DISPOSAL CONSIDERATIONS

- Waste Disposal : Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.
- Container Disposal : Refer to the product label for instructions.

SECTION 14. TRANSPORT INFORMATION

- | | | |
|--------|----------------------|---|
| IATA_C | UN number | : 3077 |
| | Proper shipping name | : Environmentally hazardous substance, solid, n.o.s. (Indoxacarb) |
| | Class | : 9 |
| | Packing group | : III |
| | Labelling No. | : 9MI |
| IMDG | UN number | : 3077 |
| | Proper shipping name | : Environmentally hazardous substance, solid, n.o.s. (Indoxacarb) |
| | Class | : 9 |
| | Packing group | : III |
| | Labelling No. | : 9 |
| | Marine pollutant | : yes (Indoxacarb) |

Not regulated by DOT/49 CFR unless shipped in bulk package or by water.

SECTION 15. REGULATORY INFORMATION

- SARA 313 Regulated Chemical(s) : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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Title III hazard classification	:	Acute Health Hazard: Yes Chronic Health Hazard: No Fire: No Reactivity/Physical hazard: No Pressure: No
EPA Reg. No.	:	352-597 In the United States this product is regulated by the US Environmental Protection Agency (EPA) under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.
California Prop. 65	:	Chemicals known to the State of California to cause cancer, birth defects or any other harm: none known
PA Right to Know Regulated Chemical(s)	:	Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances): Silica gel, precipitated, crystalline-free

SECTION 16. OTHER INFORMATION

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Contact person : DuPont Crop Protection, Wilmington, DE, 19898, Phone: 1-888-638-7668

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