



The MSDS format adheres to the standards and regulatory requirements of the United States and may not meet regulatory requirements in other countries.

DuPont  
Material Safety Data Sheet

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M0000676 "DuPont" "PROVAUNT" INSECTICIDE  
Revised 15-AUG-2006

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"DuPont", "PROVAUNT" are trademarks of DuPont.

Tradenames and Synonyms

INDOXACARB  
PROVAUNT

Company Identification

MANUFACTURER/DISTRIBUTOR  
DuPont  
1007 Market Street  
Wilmington, DE 19898

PHONE NUMBERS

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

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
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	173584-44-6	30.0
INERT INGREDIENTS		70.0

HAZARDS IDENTIFICATION

Emergency Overview

CAUTION! Harmful if swallowed. Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Harmful if inhaled. Avoid breathing (dust, vapor or spray mist). Remove contaminated clothing and wash clothing before reuse.

## (HAZARDS IDENTIFICATION - Continued)

## Potential Health Effects

Based on data from laboratory animal testing, DuPont Provaunt Insecticide may cause mild eye irritation with tearing, pain or blurred vision.

Based on data from laboratory animal testing, DuPont Provaunt Insecticide may cause slight skin irritation with itching, redness, or swelling.

Based on data from laboratory animal testing, ingestion of large amounts of DuPont Provaunt Insecticide may cause alterations in blood cell counts and/or anemia.

Based on data from laboratory animal testing, inhalation of dust from DuPont Provaunt Insecticide may cause irritation of the upper respiratory passages with coughing and discomfort.

## Carcinogenicity Information

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

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FIRST AID MEASURES  
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## First Aid

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF IN EYES: 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.

IF ON SKIN OR CLOTHING: Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

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

## (FIRST AID MEASURES - Continued)

may also contact 1-800-441-3637 for emergency medical treatment information.

KEEP OUT OF REACH OF CHILDREN.

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FIRE FIGHTING MEASURES  
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## Extinguishing Media

Water, Water Spray, Foam, Dry Chemical, CO2.

## Fire Fighting Instructions

Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment. Runoff from fire control may be a pollution hazard.

If area is exposed to fire and conditions permit, let fire burn itself out. Burning chemicals may produce by-products more toxic than the original material. If product is on fire, wear self-contained breathing apparatus and full protective equipment. Use water spray. Control runoff.

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ACCIDENTAL RELEASE MEASURES  
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## Safeguards (Personnel)

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

Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus.

Emergency Response - Chemical resistant coveralls, waterproof gloves, waterproof boots and face/eye protection. If dusting occurs, use NIOSH approved respirator protection.

## Initial Containment

Follow applicable Federal, State/Provincial and Local laws/regulations. Prevent material from entering sewers, waterways, or low areas.

## Spill Clean Up

Shovel or sweep up. Avoid causing dust. Dispose of in an approved container.

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HANDLING AND STORAGE  
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## Handling (Personnel)

USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

## Storage

Store product in original container only in a location inaccessible to children and pets. Do not contaminate water, other pesticides, fertilizer, food or feed in storage.

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EXPOSURE CONTROLS/PERSONAL PROTECTION  
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## Engineering Controls

Use only with adequate ventilation. Keep container tightly closed.

## Personal Protective Equipment

Some materials that are chemical resistant to this product are listed below. If you want more options follow the instructions for Category A on the EPA chemical resistance category selection chart.

## 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) are equal to or greater than 14 mils.
- Shoes plus socks.

After the product has been diluted in accordance with label directions for use, shirt, pants, socks, shoes and waterproof gloves are sufficient Personal Protective Equipment.

Follow manufacturer instructions for cleaning and maintaining personal protective equipment (PPE). If no such instructions for washables are available, use detergent and hot water. Keep and wash PPE separately from other laundry.

## Exposure Guidelines

## Exposure Limits

"DuPont" "PROVAUNT" INSECTICIDE

PEL (OSHA) : Particulates (Not Otherwise Regulated)  
15 mg/m<sup>3</sup>, 8 Hr. TWA, total dust  
5 mg/m<sup>3</sup>, 8 Hr. TWA, respirable dust

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PHYSICAL AND CHEMICAL PROPERTIES  
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## Physical Data

Odor : Mild, Lignin.  
Form : Granular.  
Color : Brown (dark).  
Density : 0.8 g/mL  
Vapor Pressure : 2.5 X 10<sup>(-8)</sup> Pa (a.i.)  
Solubility in Water : 0.2 ppm (a.i.)

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STABILITY AND REACTIVITY  
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## Incompatibility with Other Materials

None reasonably foreseeable.

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TOXICOLOGICAL INFORMATION  
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## Animal Data

## DuPont Provaunt Insecticide

Oral LD50: 1867 mg/kg in male rats  
Oral LD50: 687 mg/kg in female rats  
Dermal LD50: > 5000 mg/kg in rats  
Inhalation LC50, 4 hr: > 5.6 mg/L

Based on laboratory animal test data, DuPont Provaunt Insecticide is an eye irritant, and a slight to mild skin irritant. It is not a skin sensitizer.

Based on laboratory animal test data, a single exposure to DuPont Provaunt Insecticide by ingestion caused nasal and ocular discharge, altered righting reflex, incoordination, tremors or convulsions.

Based on laboratory animal test data, a single exposure to DuPont Provaunt Insecticide by inhalation caused no significant toxicological effects.

In studies with laboratory animals, repeated oral feeding of the active ingredient, indoxacarb, resulted in mild hemolytic anemia and body weight changes.

Laboratory tests have shown that indoxacarb does not cause genetic damage in bacterial or mammalian cell cultures or in animals.

## (TOXICOLOGICAL INFORMATION - Continued)

Based on laboratory animal test data, indoxacarb is not considered a carcinogenic, reproductive, or developmental hazard.

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ECOLOGICAL INFORMATION  
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## Ecotoxicological Information

## AQUATIC TOXICITY:

96 hour LC50 - Rainbow trout: 0.65 mg/L.

Highly toxic.

96 hour LC50 - Bluegill sunfish: 0.90 mg/L.

Highly toxic.

48 hour LC50 - Daphnia magna: 0.60 mg/L.

Highly toxic.

## AVIAN TOXICITY:

Acute Oral LD50 - Bobwhite Quail: 98 mg/kg.

Acute Dietary LC50 - Bobwhite Quail: 808 ppm.

Acute Dietary LC50 - Mallard Duck: > 5620 ppm

NOTE: The Aquatic Toxicity and Avian Toxicity endpoints given are based on use of DPX-MP062 Technical (containing 75% Indoxacarb, active ingredient) as the test material.

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DISPOSAL CONSIDERATIONS  
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## Waste Disposal

Do not contaminate water, food, or feed by disposal.

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

## ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment rinsewater. Do not apply where/when conditions could favor runoff. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds

## (DISPOSAL CONSIDERATIONS - Continued)

while bees are actively visiting the treatment area.

## Container Disposal

For Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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TRANSPORTATION INFORMATION  
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## Shipping Information

DOT/IMO  
Proper Shipping Name : Environmentally Hazardous Substance,  
Solid, N.O.S.  
(INDOXACARB)  
Hazard Class : 9  
UN No. : UN3077  
Packing Group : PG III  
Marine Pollutant : Yes

NOTE: Not Regulated unless in bulk package or shipped by water.

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REGULATORY INFORMATION  
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## U.S. Federal Regulations

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes  
Chronic : No  
Fire : No  
Reactivity : No

In the United States this product is regulated by the US Environmental Protection Agency under the Federal Insecticide, Fungicide and Rodenticide Act. It is a violation of federal law to use this product in a manner inconsistent with its labeling.

EPA Reg. No. 352-716

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OTHER INFORMATION  
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The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS: DuPont Crop Protection  
Address : Wilmington, DE 19898  
Telephone : 1-888-638-7668

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

End of MSDS