



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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M0000402 DuPont "AVAUNT" INSECTICIDE  
Revised 11-MAY-2005  
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CHEMICAL PRODUCT/COMPANY IDENTIFICATION  
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Material Identification

"AVAUNT" is a registered trademark of DuPont.

"DuPont" is a trademark of DuPont.

Corporate MSDS Number : DU008280

# Tradenames and Synonyms

AVAUNT "WG" INSECTICIDE  
DPX-KN128 ACTIVE INGREDIENT  
DPX-MP062 TECHNICAL  
DPX-MP062  
INDOXACARB  
DPX-KN128

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)

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COMPOSITION/INFORMATION ON INGREDIENTS  
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# Components

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

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HAZARDS IDENTIFICATION  
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## 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.

## Potential Health Effects

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

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

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

Inhalation of dust from DuPont Avaunt 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

## (FIRST AID MEASURES - Continued)

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 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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## Flammable Properties

Handle this material as if it were a fire and explosion hazard.

## 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.

## (ACCIDENTAL RELEASE MEASURES - Continued)

## 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. Not for use or storage in or around the home.

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EXPOSURE CONTROLS/PERSONAL PROTECTION  
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## Engineering Controls

Use only with adequate ventilation. Keep container tightly closed.

Do not generate dust.

## 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.

Follow manufacturer instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and

## (EXPOSURE CONTROLS/PERSONAL PROTECTION - Continued)

wash PPE separately from other laundry.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water wear:

- Coveralls over long sleeved shirt and long pants.
- Socks plus chemical resistant footwear.
- Chemical Resistant Gloves Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber) all equal to or greater than 14 mils.

## Exposure Guidelines

## Exposure Limits

DuPont "AVAUNT" 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 Avaunt Insecticide

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

## (TOXICOLOGICAL INFORMATION - Continued)

DuPont Avaunt Insecticide is an eye irritant, and a slight to mild skin irritant. It is not a skin sensitizer.

Single exposure to DuPont Avaunt Insecticide by ingestion caused nasal and ocular discharge, altered righting reflex, incoordination, tremors or convulsions.

Single oral dosing studies with DPX-MP062 (containing 75% Indoxacarb, active ingredient) to assess potential neurotoxicity were conducted in male and female rats. The NOEL for neurotoxicity was 100 mg/kg for male rats and 12.5 mg/kg for female rats.

Repeated oral dosing with DPX-MP062 (containing 75% Indoxacarb, active ingredient) caused mild hemolytic anemia and reduced body weight gain in male and female rats; additionally, female rats experienced weakness and incoordination while male rats exhibited some changes in clinical chemical measurements. The No-Observed-Effect-Level (NOEL) in a 90-day repeated oral dosing study was 100 ppm for male rats and 25 ppm for female rats.

Single exposure to DuPont Avaunt Insecticide by inhalation caused no significant toxicological effects.

Based on animal data from DPX-JW062 (containing 50% Indoxacarb, active ingredient), the following chronic effects may occur in animals with Indoxacarb.

Ingestion of DPX-JW062 by dogs for one-year caused hemolytic anemia with secondary histopathological changes and decreased body weights. The NOEL for both male and female dogs was 40 ppm. Effects in male and female rats that were fed DPX-JW062 in their diets for two-years include decreased body weight, in addition females also had some hemolysis. The NOEL for the two-year rat feeding study was 60 ppm for male rats and 40 ppm for female rats. Male and female mice fed DPX-JW062 for eighteen months had decreased body weight, in addition females showed signs of neurotoxicity, some mortality, and a few incidences of histopathologic changes in the brain (probably secondary to seizures). The NOEL for the eighteen month mouse feeding study was 20 ppm in male and female mice.

Tests have shown that DPX-MP062 (containing 75% Indoxacarb, active ingredient) does not cause genetic damage in bacterial or mammalian cell cultures or in animals.

Based on animal data from DPX-JW062 (containing 50% Indoxacarb, active ingredient) Indoxacarb is not considered a carcinogenic or reproductive hazard.

Indoxacarb is not considered a developmental hazard. The maternal and developmental NOEL was 2.0 mg/kg.

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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 above Aquatic Toxicity and Avian Toxicity is for  
DPX-MP062 (containing 75% Indoxacarb, active  
ingredient).

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DISPOSAL CONSIDERATIONS  
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## # Waste Disposal

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

Improper disposal of excess pesticide, spray mixture, or  
rinse 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 mammals, birds, 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.  
Cover, incorporate, or clean up granules that are spilled.

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  
while bees are actively visiting the treatment area.

## (DISPOSAL CONSIDERATIONS - Continued)

## 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.

For Fiber Drums with Liners: Completely empty liners by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into manufacturing or application equipment. Then dispose of sack in a sanitary landfill or by incineration if allowed by State and local authorities. If the drum is contaminated and cannot be reused, dispose of in the same manner.

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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. 352-597



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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

# Indicates updated section.

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