

Material Safety Data Sheet



DuPont™ Arilon™ Insecticide

Version 2.1

Revision Date 01/20/2009

Ref. 130000049994

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™ Arilon™ Insecticide
Tradename/Synonym : B12774713
DPX-MP062 20WG
INDOXACARB (S)-methyl 7-chloro-2,5-dihydro-2-[[methoxycarbonyl]
[4(trifluoromethoxy)phenyl]amino]-carbonyl]indeno[1,2-e][1,3,4] oxadiazine-4a-
(3H)-carboxylate

MSDS Number : 130000049994
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. Harmful if inhaled. Avoid breathing dust. Avoid breathing vapours or mist. Wash thoroughly with soap and water after handling.

This product is toxic to fish. This product is toxic to: Aquatic invertebrates

Potential Health Effects

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

Skin : May cause: Irritation with discomfort or rash.

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

Ingestion
Indoxacarb : 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 : 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.


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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Indoxacarb	173584-44-6	20 %
Inert Ingredients		80 %

SECTION 4. FIRST AID MEASURES

- Skin contact : Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control 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 control centre 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 centre or doctor for treatment advice.
- Ingestion : Call a poison control centre 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. Never 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 Direction

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water, Water spray, Foam, Dry chemical, Carbon dioxide (CO2)
- Firefighting Instructions : Wear self-contained breathing apparatus (SCBA). Wear full protective equipment. Evacuate personnel and keep upwind of fire. Use water spray. Runoff from fire control may be a pollution hazard. Dike off area to prevent runoff and contamination of water sources. In the event of fire, cool 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.

- Safeguards (Personnel) : Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus.
- Spill Cleanup : Prevent further leakage or spillage. Shovel or sweep up. Dispose of in an approved container.
- Accidental Release Measures : Prevent material from entering sewers, waterways, or low areas. Follow applicable Federal, State/Provincial and Local laws/regulations.

SECTION 7. HANDLING AND STORAGE

- Handling (Personnel) : Wash hands 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 : 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. Keep out of reach of children.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Personal protective equipment
 - Hand protection :
 - Skin and body protection : Applicators and other handlers must wear:
 - Long sleeved shirt and long pants
 - Waterproof gloves
 - Shoes plus socks
- Protective measures : Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Exposure Guidelines
 Exposure Limit Values
 Indoxacarb

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

* 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.


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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: solid, granules
Color	: tan
Odor	: slight
pH	: 8.1 - 9.1
Bulk density	: 0.50 - 0.70 g/ml Tapped

SECTION 10. STABILITY AND REACTIVITY

Stability	: Stable at normal temperatures and storage conditions.
Conditions to avoid	: None reasonably foreseeable.

SECTION 11. TOXICOLOGICAL INFORMATION

DuPont™ Arilon™ Insecticide	
Dermal LD50	: > 5,000 mg/kg , rat
Oral LD50	: 1,972 mg/kg , rat
Skin irritation	: Species: rabbit, Mild skin irritation
Eye irritation	: Species: rabbit, Moderate eye irritation
Sensitisation	: Species: mouse, Did not cause sensitization on laboratory animals.
Indoxacarb	
Inhalation 4 h LC50	: > 5.5 mg/l, rat
Repeated dose toxicity	: Inhalation, rat Incoordination, Increased mortality or reduced survival multiple species altered blood chemistry
Carcinogenicity	: Did not show carcinogenic effects in animal experiments.
Mutagenicity	: Did not cause genetic damage in cultured bacterial cells., Did not cause genetic damage in cultured mammalian cells., Did not cause genetic damage in animals.
Reproductive toxicity	: Animal testing did not show any effects on fertility., Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity.
Teratogenicity	: Animal testing showed effects on embryo-foetal development at levels equal to or above those causing maternal toxicity.


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SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Indoxacarb

96 h LC50	:	Oncorhynchus mykiss (rainbow trout) 0.65 mg/l
96 h LC50	:	Lepomis macrochirus (Bluegill sunfish) 0.90 mg/l
48 h EC50	:	Daphnia magna (Water flea) 0.60 mg/l
21 d	:	NOEC Daphnia magna (Water flea) 0.075 mg/l

Toxicity to other organisms

Indoxacarb

LD50	:	Colinus virginianus (Bobwhite quail) 98 mg/kg Oral
5 d LC50	:	Colinus virginianus (Bobwhite quail) 808 mg/kg Dietary
8 d LC50	:	Anas platyrhynchos (Mallard duck) > 5,620 ppm Dietary

Additional ecological information : Environmental Hazards: 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.

SECTION 13. DISPOSAL CONSIDERATIONS

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. Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

Container Disposal : Refer to the product label for instructions.

SECTION 14. TRANSPORT INFORMATION

IMDG UN-Number : 3077

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Proper shipping name : Environmentally hazardous substance, solid, n.o.s.
(Indoxacarb)
Class : 9
Packaging group : III
Labelling No. : 9

Not regulated by DOT.
Not regulated for IATA.

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.

EPA Reg. No. : 352-776
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 State of California to cause cancer, birth defects or any other harm: none known

SECTION 16. OTHER INFORMATION

DuPont™, Arilon™ are trademarks of E. I. du Pont de Nemours and Company

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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