Material Safety Data Sheet

DuPont™ Arilon™ Insecticide

Version 3.3

Revision Date 09/09/2011 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
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. This product is toxic to: Aquatic invertebrates

Potential Health Effects

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 rash.

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

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	20 %
Other 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 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. 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 Directions for Use.

SECTION 5. FIREFIGHTING 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.

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. Use personal protective equipment.
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 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 : 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 the reach of children.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Skin and body protection : Mixers, loaders, applicators and other handlers must wear:
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 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.

* 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

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Form	:	solid, granules
Color	:	light tan, to, white
Odor	:	slight
pH	:	8.1 - 9.1
Oxidizing	:	The product is not oxidizing.
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

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Inhalation 4 h LC50	:	> 4.8 mg/l , rat
Dermal LD50	:	> 5,000 mg/kg , rat
Oral LD50	:	1,909 mg/kg , rat
Skin irritation	:	slight irritation, rabbit
Eye irritation	:	slight irritation, rabbit
Sensitisation	:	Did not cause sensitization on laboratory animals., 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, Respiratory irritation

Oral
rat
Red blood cell destruction causing abnormal decrease in number of red blood cells (anaemia)

Carcinogenicity	:	Did not show carcinogenic effects in animal experiments.
Mutagenicity	:	Tests on bacterial or mammalian cell cultures did not show mutagenic 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
Indoxacarb (S-enantiomer)

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
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

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

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.

EPA Reg. No. : 352-776
In the United States this product is regulated by the US Environmental

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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.

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): Kaolin , Silica gel, precipitated, crystalline-free , Sucrose

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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