

**DuPont™ Arilon™ Insecticide**

Version 2.0

Revision Date 05/18/2015

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

Product Use : Insecticide

Restrictions on use :
Do not use product for anything outside of the above specified uses

Manufacturer/Supplier : DuPont
4417 Lancaster Pike
Wilmington, DE 19805, USA

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**Product hazard category**

Acute toxicity (Oral)	Category 4
Acute toxicity (Inhalation)	Category 4
Specific target organ toxicity - single exposure	Category 2
Specific target organ toxicity - repeated exposure	Category 1

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Label content

Pictogram :



Signal word :

Danger

Hazardous warnings :

Harmful if swallowed or if inhaled
 May cause damage to organs.
 Causes damage to organs through prolonged or repeated exposure. (Central nervous system)

Hazardous prevention measures :

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
 Wash skin thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/ physician.
 Get medical advice/ attention if you feel unwell.
 Rinse mouth.
 Store locked up.
 Dispose of contents/ container to an approved waste disposal plant.

Other hazards


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

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 60.1093 %

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Fatty acids, tallow, sodium salts	8052-48-0	0.1 - 0.5 %
Other Ingredients		69.5 - 79.9 %
Indeno[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylic acid<(>,<)> 7-chloro-2,5-dihydro-2-[[[(methoxycarbonyl)[4-(trifluoromethoxy)phenyl]amino]carbonyl]-, methyl ester	144171-61-9	20 - 30 %

SECTION 4. FIRST AID MEASURES

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.

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.

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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.
- 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.
- Most important symptoms/effects, acute and delayed : No applicable data available.
- Protection of first-aiders : No applicable data available.
- Notes to physician : No applicable data available.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water, Water spray, Foam, Dry chemical, Carbon dioxide (CO2)
- Unsuitable extinguishing media : No applicable data available.
- Specific hazards : No applicable data available.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus (SCBA). Wear full protective equipment.
- Further information : 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.
Use personal protective equipment.
- Environmental precautions : Prevent material from entering sewers, waterways, or low areas.
- Spill Cleanup : Prevent further leakage or spillage. Shovel or sweep up. Dispose of in an approved container.
- Accidental Release Measures : 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.
- Handling (Physical Aspects) : No applicable data available.
- Dust explosion class : No applicable data available.
- 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.
- Storage period : No applicable data available.
- Storage temperature : No applicable data available.

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

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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

Fatty acids, tallow, sodium salts
No applicable data available.

Other Ingredients
No applicable data available.

Indeno[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylic acid<(>,<)> 7-chloro-2,5-dihydro-2-[[methoxycarbonyl][4-(trifluoromethoxy)phenyl]amino]carbonyl]-, methyl ester
No applicable data available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state : solid
Form : solid, granules
Color : light tan, to, white

Odor : slight

Odor threshold : No applicable data available.

pH : 8.1 - 9.1

Melting point/range : No applicable data available.

Boiling point/boiling range : No applicable data available.

Flash point : No applicable data available.

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Evaporation rate	: No applicable data available.
Flammability (solid, gas)	: No applicable data available.
Upper explosion limit	: No applicable data available.
Lower explosion limit	: No applicable data available.
Vapour Pressure	: No applicable data available.
Vapour density	: No applicable data available.
Specific gravity (Relative density)	: No applicable data available.
Bulk density	: Tapped
Water solubility	: No applicable data available.
Solubility(ies)	: No applicable data available.
Partition coefficient: n-octanol/water	: No applicable data available.
Auto-ignition temperature	: Auto-ignition temperature no data available
Decomposition temperature	: No applicable data available.
Viscosity, kinematic	: No applicable data available.
Viscosity, dynamic	: No applicable data available.
Oxidising Substance	: The product is not oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No applicable data available.
Chemical stability	: Stable at normal temperatures and storage conditions.
Possibility of hazardous reactions	: No applicable data available.



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Conditions to avoid : None reasonably foreseeable.

Incompatible materials : No applicable data available.

Hazardous decomposition products : No applicable data available.

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 sensitisation on laboratory animals., Guinea pig

Fatty acids, tallow, sodium salts

Repeated dose toxicity : Ingestion
Rat
- 90 h
NOAEL: 200 mg/kg Method: see user defined free text
No toxicologically significant effects were found., Information given is based on data obtained from similar substances.

Carcinogenicity : Not classifiable as a human carcinogen.
Animal testing did not show any carcinogenic effects.
Information given is based on data obtained from similar substances.

Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Has not been tested in animals.
Information given is based on data obtained from similar substances.

Reproductive toxicity : No toxicity to reproduction
Animal testing showed no reproductive toxicity.
Information given is based on data obtained from similar substances.

Teratogenicity : Animal testing showed no developmental toxicity.


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Information given is based on data obtained from similar substances.

Indeno[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylic acid(>,<)> 7-chloro-2,5-dihydro-2-[[methoxycarbonyl][4-(trifluoromethoxy)phenyl]amino]carbonyl]-, methyl ester

- Repeated dose toxicity : Oral
multiple species
-
altered blood chemistry, Red blood cell destruction causing abnormal decrease in number of red blood cells (anaemia)
- Carcinogenicity : Not classifiable as a human carcinogen.
Animal testing did not show any carcinogenic effects.
- Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Animal testing did not show any mutagenic effects.
Did not cause genetic damage in animals.
- Reproductive toxicity : No toxicity to reproduction
Animal testing showed no reproductive toxicity.
- Teratogenicity : Animal testing showed no developmental toxicity.

Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

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 12. ECOLOGICAL INFORMATION
Aquatic Toxicity

Fatty acids, tallow, sodium salts

- 96 h LC50 : Danio rerio (zebra fish) OECD Test Guideline 203
Aquatic toxicity is unlikely due to low solubility.
Information given is based on data obtained from similar substances.
- 72 h EC50 : Pseudokirchneriella subcapitata (green algae) OECD Test Guideline


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201

Aquatic toxicity is unlikely due to low solubility.

Information given is based on data obtained from similar substances.

- 72 h NOEC : Pseudokirchneriella subcapitata (green algae) OECD Test Guideline 201
 Aquatic toxicity is unlikely due to low solubility.
 Information given is based on data obtained from similar substances.
- 48 h EC50 : Daphnia magna (Water flea) OECD Test Guideline 202
 Aquatic toxicity is unlikely due to low solubility.
 Information given is based on data obtained from similar substances.

Indeno[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylic acid(>,<)> 7-chloro-2,5-dihydro-2-[[methoxycarbonyl][4-(trifluoromethoxy)phenyl]amino]carbonyl]-, methyl ester

- 96 h LC50 : Oncorhynchus mykiss (rainbow trout) > 0.53 mg/l
- 96 h LC50 : Lepomis macrochirus (Bluegill sunfish) > 0.95 mg/l
- 48 h LC50 : Daphnia magna (Water flea) > 0.47 mg/l
- 21 d : NOEC Daphnia magna (Water flea) 0.075 mg/l

Environmental Fate

Fatty acids, tallow, sodium salts

- Biodegradability : Biodegradable OECD Test Guideline 301D
 Information given is based on data obtained from similar substances.

- Bioaccumulation : Bioaccumulation is unlikely.
 Information given is based on data obtained from similar substances.

- 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 methods - Product : Do not contaminate water, food or feed by disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or


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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.

Waste disposal methods - Container : Refer to the product label for instructions.
 Contaminated packaging : No applicable data available.

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

Other regulations : Harmful if swallowed. This product is toxic to fish. Caution Causes moderate eye irritation. This product is toxic to: Harmful if absorbed through skin. Aquatic invertebrates 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.

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- SARA 313 Regulated Chemical(s) : 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.
- 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
- 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.

SECTION 16. OTHER INFORMATION

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® Registered trademark of E.I. du Pont de Nemours and Company

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

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