

**DuPont™ Avaunt® eVo Insect Control**

Version 2.0

Revision Date 07/10/2015

Ref. 130000142066

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™ Avaunt® eVo Insect Control
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
Specific target organ toxicity - single exposure	Category 2
Specific target organ toxicity - repeated exposure	Category 1

Label content

Pictogram :




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Signal word : Danger

Hazardous warnings : Harmful if swallowed.
 May cause damage to organs. (Central nervous system)
 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.
 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
 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

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 52.14 %

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Indoxacarb	173584-44-6	30 %
Fatty acids, tallow, sodium salts	8052-48-0	0.47 %
Other Ingredients		69.54 %


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Present as an impurity in the clay component of this product:

Titanium dioxide	13463-67-7	0.1 - 0.5 %
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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.
- 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 spray, Foam, Dry chemical, Carbon dioxide (CO2)


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- Unsuitable extinguishing media : High volume water jet, (contamination risk)
- Specific hazards : No applicable data available.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
- Further information : (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/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) : No applicable data available.
- Environmental precautions : Prevent material from entering sewers, waterways, or low areas.
- Spill Cleanup : Soak up with sawdust, sand, oil dry or other absorbent material. Dispose of in an approved container.
- Accidental Release Measures : Never return spills in original containers for re-use. Dispose of in accordance with local 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 : Not applicable
- Storage : Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store product in original container only in a location inaccessible to children



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and pets. Not for use or storage in or around the home. Keep out of the reach of children.

Storage period : 36 Months

Storage temperature : No applicable data available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Skin and body protection : 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), all greater than or equal to 14 mils
 Shoes plus socks
 Personal protective equipment required for early entry:
 Coveralls worn over long-sleeved shirt and long pants
 Chemical resistant footwear plus socks
 Chemical-resistant gloves, Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all greater than or equal to 14 mils

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

AEL *	(DUPONT)	1 mg/m3	8 hr. TWA
AEL *	(DUPONT)	0.5 mg/m3	12 hr. TWA

Titanium dioxide

Permissible exposure limit:	(OSHA)	15 mg/m3	8 hr. TWA Total dust.
TLV	(ACGIH)	10 mg/m3	TWA
AEL *	(DUPONT)	10 mg/m3	8 & 12 hr. TWA Total dust.
AEL *	(DUPONT)	5 mg/m3	8 & 12 hr. TWA Respirable dust.

Fatty acids, tallow, sodium salts

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No applicable data available.

* 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

Appearance

Physical state : solid
Form : granular
Color : white

Odor : Faint odour

Odor threshold : No applicable data available.

pH : 8.4

Melting point/range : No applicable data available.

Boiling point/boiling range : No applicable data available.

Flash point : No applicable data available.

Evaporation rate : No applicable data available.

Flammability (solid, gas) : The product is not flammable.

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 : 400 kg/m³
loose

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Bulk density	: 440 kg/m ³ 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	: 207 °C
Decomposition temperature	: No applicable data available.
Viscosity, kinematic	: No applicable data available.
Viscosity, dynamic	: No applicable data available.
Oxidizing Substance	: The product is not oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No hazards to be specially mentioned.
Chemical stability	: Stable at normal temperatures and storage conditions.
Possibility of hazardous reactions	: No applicable data available.
Conditions to avoid	: No applicable data available.
Incompatible materials	: No materials to be especially mentioned.
Hazardous decomposition products	: No materials to be especially mentioned.

SECTION 11. TOXICOLOGICAL INFORMATION

DuPont™ Avaunt® eVo Insect Control	
Dermal LD50	: > 5,000 mg/kg , male and female, Rat
Oral LD50	: 550 mg/kg , Rat
Skin irritation	: No skin irritation, Rabbit


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Eye irritation : No eye irritation, Rabbit
 Sensitisation : Did not cause sensitisation on laboratory animals., Mouse

Indoxacarb

Inhalation 4 h LC50 : 4.2 mg/l , female, Rat
 Repeated dose toxicity : Inhalation
 Rat
 -
 Target Organs: Central nervous system, Blood
 Central nervous system effects, Incoordination, Increased mortality or reduced survival, altered hematology

Oral
 multiple species
 -
 Target Organs: Blood
 altered hematology

Carcinogenicity : 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.
 Reproductive toxicity : Animal testing did not show any effects on fertility.
 No toxicity to reproduction
 Teratogenicity : Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

Fatty acids, tallow, sodium salts

Repeated dose toxicity : Ingestion
 Rat
 - 90 d
 NOAEL: 200 mg/kg
 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.


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

Titanium dioxide

- Inhalation 4 h LC50 : > 6.82 mg/l , Rat
- Repeated dose toxicity : Oral
Rat
-
NOAEL: 1,000 mg/kg Method: OECD Test Guideline 408
No toxicologically significant effects were found.
- Carcinogenicity : Not classifiable as a human carcinogen.
Overall weight of evidence indicates that the substance is not carcinogenic.
- Mutagenicity : Animal testing did not show any mutagenic effects.
Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
- Reproductive toxicity : 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).

Material	IARC	NTP	OSHA
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Titanium dioxide 2B

SECTION 12. ECOLOGICAL INFORMATION
Aquatic Toxicity

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48 h EC50 : Daphnia magna (Water flea) 0.00062 mg/l

Indoxacarb

90 d Early Life-Stage : NOEC Oncorhynchus mykiss (rainbow trout) 0.15 mg/l

21 d : NOEC Daphnia magna (Water flea) 0.9 mg/l

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 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.

Titanium dioxide

96 h LC50 : Pimephales promelas (fathead minnow) > 1,000 mg/l

72 h ErC50 : Pseudokirchneriella subcapitata (green algae) > 100 mg/l see user defined free text

72 h NOEC : Algae 5,600 mg/l see user defined free text

Environmental Fate
Indoxacarb

 Bioaccumulation 21 d : Lepomis macrochirus (Bluegill sunfish) OECD Test Guideline 305
 Bioconcentration factor (BCF) : 77.3
 Does not bioaccumulate.


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Information source: Internal study report

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: This product is toxic to fish. 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. Very toxic to bees. Do not apply this product while bees are actively visiting the treatment area. See product label for additional application instructions relating to environmental precautions.

SECTION 13. DISPOSAL CONSIDERATIONS
Waste disposal methods -
Product

: Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Waste disposal methods -
Container

: Refer to the product label for instructions.

Refer to the product label for instructions.

Contaminated packaging

: No applicable data available.

SECTION 14. TRANSPORT INFORMATION

IATA_C

UN number

: 3077


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	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
	Marine pollutant	: yes (Indoxacarb)
Marine pollutant		

SECTION 15. REGULATORY INFORMATION

Other regulations : This Safety Data Sheet is for a pesticide product registered by the US Environmental Protection Agency (USEPA) and is therefore also subject to certain labeling requirements under US pesticide law (FIFRA). These requirements differ from the classification criteria and hazard information required by OSHA for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the mandatory hazard information required by USEPA on the pesticide label:

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 vapor or spray mist. Remove and wash contaminated clothing before re-use.

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):



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

EPA Reg. No. : 352-906

California Prop. 65 : WARNING! This product contains a chemical or chemicals known to the State of California to cause cancer.

SECTION 16. OTHER INFORMATION

Revision Date : 07/10/2015

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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