

**DuPont™ Destra™ IS Herbicide**

Version 2.0

Revision Date 03/10/2017

Ref. 130000144190

This SDS adheres to the standards and regulatory requirements of Canada and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DuPont™ Destra™ IS Herbicide
Tradename/Synonym : B13168382

SDS Number : 130000144190

Product Use : Herbicide
Manufacturer : E.I. du Pont Canada Company
P.O. Box 2200, Streetsville
Mississauga, ON
L5M 2H3
Canada

Product Information : 1-800-387-2122
Medical Emergency : 1-800-441-3637 (24 hours)

SECTION 2. HAZARDS IDENTIFICATION**Potential Health Effects**

Information presented in Section 2 conforms to the requirements of the Hazardous Products Regulations (HPR) and WHMIS 2015. See Section 15 for applicable information conforming to the requirements of the Pest Management Regulatory Agency (PMRA).

Skin

Mesotrione : May cause skin irritation. May cause:, Discomfort, itching, redness, or swelling..

Ethyl 5,5-diphenyl-2-isoxazoline-3-carboxylate : Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause allergic skin reaction with itching, rash, or swelling.

Modified Aromatic Sulfonate Salt : Causes skin irritation. May cause:, Pain, burning sensation, itching, redness, swelling, or rash..



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Sodium alkylnaphthalene sulfonate : Causes skin irritation. May cause:, Pain, burning sensation, itching, redness, swelling, or rash..

Titanium dioxide : May cause skin irritation. May cause:, Discomfort, itching, redness, or swelling..

Eyes

Mesotrione : May cause eye irritation. May cause:, Tearing, redness, or discomfort..

Rimsulfuron : Based on Animal Evidence May cause eye irritation., Discomfort, tearing, Blurred vision.

Modified Aromatic Sulfonate Salt : Causes eye irritation. May cause:, Pain, tearing, swelling, redness, or temporary visual impairment..

Sodium alkylnaphthalene sulfonate : Causes eye irritation. May cause:, Tearing, pain, redness, swelling, ulceration, visual impairment, or blindness., May cause irreversible eye damage..

Inhalation

Sodium alkylnaphthalene sulfonate : Causes respiratory tract irritation. May cause:, Cough, sneezing, runny nose, sore throat, or shortness of breath..

Ingestion

Rimsulfuron : Abnormal liver function

Ethyl 5,5-diphenyl-2-isoxazoline-3-carboxylate : Harmful if swallowed.

Carcinogenicity Material

IARC	OSHA	ACGIH
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Titanium dioxide 2B

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Mesotrione	104206-82-8	36.36 %
Rimsulfuron	122931-48-0	5.46 %
Ethyl 5,5-diphenyl-2-isoxazoline-3-carboxylate	163520-33-0	2.73 %
Modified Aromatic Sulfonate Salt		5 - 10 %
Sodium alkylnaphthalene sulfonate		1 - 5 %
Other Ingredients		49.31 - 59.69 %

Present as an impurity in the components of this product:

Titanium dioxide	13463-67-7	0.1 - 0.5 %
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The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4. FIRST AID MEASURES



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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.
- 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. Do not 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. Information presented in Section 4 conforms to the requirements of the Hazardous Products Regulations (HPR) and WHMIS 2015. See Section 15 for applicable information conforming to the requirements of the Pest Management Regulatory Agency (PMRA).
- Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray, Foam, Dry chemical, Carbon dioxide (CO2)
- Unsuitable extinguishing media : High volume water jet, (contamination risk)
- Firefighting Instructions : Wear full protective clothing and self-contained breathing apparatus. (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.



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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 to safe areas. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Wear suitable protective equipment.
- Spill Cleanup : Sweep up and shovel into suitable containers for disposal.
- Accidental Release Measures : Prevent material from entering sewers, waterways, or low areas. Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE

- Handling (Personnel) : Keep out of reach of children. Avoid breathing dust or spray mist. Avoid contact with skin, eyes and clothing. 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. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Wash splashes of concentrate from skin and eyes immediately
- Handling (Physical Aspects) : Keep away from heat and sources of ignition.
- Storage : Store product in original container only, away from other pesticides, fertilizer, food or feed. Not for use or storage in or around the home. Keep container closed when not in use. Keep out of the reach of children. Store in a cool, dry place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering controls : Ensure adequate ventilation, especially in confined areas. Information presented in Section 8 conforms to the requirements of the Hazardous Products Regulations (HPR) and WHMIS 2015. See Section 15 for applicable



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information conforming to the requirements of the Pest Management Regulatory Agency (PMRA).

Personal protective equipment

Hand protection : Material: Protective gloves

Skin and body protection : Applicators and other handlers must wear:
 Long sleeved shirt and long pants
 Chemical-resistant gloves
 Protective eyewear
 PPE required for early entry to treated areas that is permitted in accordance with Provincial and Territorial management programs, and that involves contact with anything that has been treated, such as plants, soil, or water, is:
 Coveralls
 Chemical resistant gloves made of any waterproof material
 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. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them. Use this product in accordance with its label.

Exposure Guidelines
 Exposure Limit Values

Rimsulfuron			
AEL *	(DuPont)	5 mg/m3	8 & 12 hr. TWA Total dust.
AEL *	(DuPont)	2.5 mg/m3	8 & 12 hr. TWA Respirable dust.
Titanium dioxide			
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.

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* 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

Form	: granules
pH	: 8.1 (for a component of this mixture)
pH	: 6.7 (for a component of this mixture)
pH	: 3.95 (for a component of this mixture)
Oxidizing Substance	: The product is not oxidizing.
Bulk density	: 0.65 - 0.71 g/cm ³ Tapped, (for a component of this mixture)
Bulk density	: 0.61 - 0.67 g/cm ³ Tapped, (for a component of this mixture)
Bulk density	: 0.59 - 0.60 kg/m ³ (for a component of this mixture)

SECTION 10. STABILITY AND REACTIVITY

Stability	: Stable at normal temperatures and storage conditions.
Conditions to avoid	: None reasonably foreseeable.
Incompatibility	: None reasonably foreseeable.
Hazardous reactions	: Polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

DuPont™ Destra™ IS Herbicide	
Inhalation 4 h Acute toxicity estimate	: > 3 mg/l , Rat
Dermal Acute toxicity estimate	: > 5,000 mg/kg , Rat



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- Oral Acute toxicity estimate : > 5,000 mg/kg , Rat
- Skin irritation : No skin irritation, Rabbit
Minimal effects that do not meet the threshold for classification.
- Eye irritation : Mild eye irritation, Rabbit
- Sensitisation : Did not cause sensitisation on laboratory animals.,
Guinea pig
Mouse

Further information : Information presented in section 11 conforms to the requirements of the Hazardous Products Regulations (HPR) and WHMIS 2015. See Section 15 for applicable information conforming to the requirements of the Pest Management Regulatory Agency (PMRA).

Mesotrione

- Carcinogenicity : Not classifiable as a human carcinogen.
- Reproductive toxicity : No toxicity to reproduction
- Teratogenicity : Animal testing showed no developmental toxicity.

Rimsulfuron

- Repeated dose toxicity : The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.
Oral
multiple species
altered blood chemistry, Liver effects, Organ weight changes
- Carcinogenicity : Did not show carcinogenic effects in animal experiments.
- Reproductive toxicity : Animal testing did not show any effects on fertility.
- Teratogenicity : Evidence suggests the substance is not a developmental toxin in animals.

Ethyl 5,5-diphenyl-2-isoxazoline-3-carboxylate

- Repeated dose toxicity : Ingestion
Mouse
90 d



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No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification.

- Carcinogenicity : Not classifiable as a human carcinogen.
Animal testing did not show any carcinogenic effects.
- Reproductive toxicity : No toxicity to reproduction
Animal testing showed no reproductive toxicity.
- Teratogenicity : Evidence suggests the substance is not a developmental toxin in animals.

Titanium dioxide

- Repeated dose toxicity : Oral
Rat

No toxicologically significant effects were found.

- Carcinogenicity : Not classifiable as a human carcinogen.
Overall weight of evidence indicates that the substance is not carcinogenic.
- Reproductive toxicity : Animal testing showed no reproductive toxicity.
- Teratogenicity : Animal testing showed no developmental toxicity.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Mesotrione

- 96 h LC50 : Oncorhynchus mykiss (rainbow trout) > 120 mg/l
- 96 h LC50 : Oncorhynchus mykiss (rainbow trout) > 120 mg/l
- 72 h EC50 : Pseudokirchneriella subcapitata (green algae) 4.5 mg/l
- 72 h EC50 : Pseudokirchneriella subcapitata (green algae) 3.5 mg/l
Information source: Data provided by an external source.
- 14 d EC50 : Lemna minor (duckweed) 0.0077 mg/l


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48 h EC50 : Daphnia magna (Water flea) 900 mg/l

Rimsulfuron

96 h LC50 : Oncorhynchus mykiss (rainbow trout) > 390 mg/l

96 h LC50 : Lepomis macrochirus (Bluegill sunfish) > 390 mg/l

120 h EbC50 : Selenastrum capricornutum (green algae) 1.6 mg/l

48 h EC50 : Daphnia magna (Water flea) > 360 mg/l

90 d : NOEC Oncorhynchus mykiss (rainbow trout) 110 mg/l

21 d : NOEC Daphnia magna (Water flea) 0.82 mg/l

Ethyl 5,5-diphenyl-2-isoxazoline-3-carboxylate

96 h LC50 : Lepomis macrochirus (Bluegill sunfish) 0.22 mg/l

96 h EC50 : Pseudokirchneriella subcapitata (green algae) > 1.26 mg/l

96 h NOEC : Pseudokirchneriella subcapitata (green algae) 1.26 mg/l

Sodium alkylnaphthalene sulfonate

48 h LC50 : Oryzias latipes (Orange-red killifish) 360 mg/l

72 h EC50 : Algae 102.5 mg/l

48 h EC50 : Daphnia (water flea) 334.2 mg/l

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

48 h EC50 : Daphnia magna (Water flea) > 100 mg/l OECD Test Guideline 202

Environmental Fate

Rimsulfuron

Biodegradability : According to the results of tests of biodegradability this product is not readily biodegradable.


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Bioaccumulation : Does not bioaccumulate.

Sodium alkylnaphthalene sulfonate

Biodegradability : Not readily biodegradable.

Bioaccumulation : Bioaccumulation is unlikely.

Additional ecological information : The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground-water contamination. Toxic to aquatic organisms. This product is toxic to non-target plants. See product label for additional application instructions relating to environmental precautions.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal : 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. Comply with applicable Federal, State/Provincial and Local Regulations.

Container disposal: : Container Refilling and Disposal:
DO NO REUSE THE CONTAINER FOR ANY OTHER PURPOSE.
Refer to the product label for instructions.
Do not transport if this container is damaged or leaking.

Environmental Hazards : Do not re-use empty containers.
Dispose of contents/container to a hazardous-waste collection site.

SECTION 14. TRANSPORT INFORMATION

IATA_C	UN number	: 3077
	Proper shipping name	: Environmentally hazardous substance, solid, n.o.s. (Mesotrione, Rimsulfuron)
	Class	: 9
	Packing group	: III
	Labelling No.	: 9MI
IMDG	UN number	: 3077

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Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
SOLID, N.O.S. (Rimsulfuron, Mesotrione)
Class : 9
Packing group : III
Labelling No. : 9
Marine pollutant : yes (Rimsulfuron, Mesotrione)

Not regulated as a hazardous material by DOT.
Not regulated as a hazardous material by TDG.

SECTION 15. REGULATORY INFORMATION

Other regulations : This Safety Data Sheet is for a pesticide product registered by the Pest Management Regulatory Agency (PMRA), and is therefore also subject to certain requirements under Canadian pesticide laws, including the Pest Control Products Act (PCPA). These requirements differ from the classification criteria and hazard information required by the Hazardous Product Regulations (HPR) and WHMIS 2015 for safety data sheets, and for workplace labels of non-pesticide chemicals. The following information is determined by PMRA.

The approved pest control product label (the label), under the Pest Control Products Act, needs to be followed at all times and in cases where there are any discrepancies between the approved label and an SDS for that product it is the label information that prevails.

PCP Registration # : 32626

SECTION 16. OTHER INFORMATION

MSDS preparation date : 03/10/2017

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

Contact person : E.I. DuPont Canada Company, Mississauga, Ontario, L5M 2H3



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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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