



DuPont™ Predicade™ Broadleaf

Version 2.0

Revision Date 03/02/2015

Ref. 130000140976

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™ Predicade™ Broadleaf
 Tradename/Synonym : B12014143

MSDS Number : 130000140976

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

Skin

Thifensulfuron methyl : May cause skin irritation.
 May cause: Irritation with discomfort or pain, redness or rash, itching or swelling.

Tribenuron methyl : May cause allergic skin reaction.

Eyes

Thifensulfuron methyl : May cause eye irritation.
 May cause: Tearing, redness, or discomfort.

Tribenuron methyl : May irritate eyes.

Inhalation

Thifensulfuron methyl : May cause: Respiratory irritation, Discomfort, Cough.

Carcinogenicity

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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.

Tribenuron methyl : DuPont has classified this material as a probable human carcinogen.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Thifensulfuron methyl	79277-27-3	25 %
Tribenuron methyl	101200-48-0	25 %
Other Ingredients		50 %

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 : No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.
- 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 : No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.
- General advice : Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

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SECTION 5. FIREFIGHTING MEASURES

Flammable Properties

Auto-ignition temperature : 387 °C (729 °F)

Lower explosion limit/ lower
flammability limit : 0.1 - 0.23 g/lSuitable extinguishing media : Water spray, Dry chemical, Foam, Carbon dioxide (CO₂)Unsuitable extinguishing
media : High volume water jet, (contamination risk)Firefighting Instructions : Wear full protective equipment.
(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.
Do not allow run-off from fire fighting to enter drains or water courses.**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 : Shovel or sweep up. Avoid dust formation. Dispose of in an approved
container.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) : Wash hands thoroughly with soap and water after handling and before eating,
drinking, chewing gum, using tobacco, or using the toilet.



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- Handling (Physical Aspects) : Keep away from heat and sources of ignition. Under severe dusting conditions, this material may form explosive mixtures in air.
- Storage : Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in original container. Store in a cool, dry place. Keep out of the reach of children.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Personal protective equipment
 - Respiratory protection : Tractor / sprayer without hood: Half mask with a particle filter P1 (EN 143). Backpack / knapsack sprayer: Half mask with a particle filter P1 (EN 143). Mechanical automatized spray application in closed tunnel: No personal respiratory protective equipment normally required.
 - 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
 - PPE required for early entry to treated areas that is permitted under the Worker Protection Standard 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. All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical damage or if contaminated.

Exposure Guidelines
Exposure Limit Values

Tribenuron methyl			
AEL *	(DUPONT)	0.5 mg/m3	12 hr. TWA


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AEL *	(DUPONT)	1 mg/m3	8 hr. TWA
Thifensulfuron methyl AEL *	(DUPONT)	5 mg/m3	8 & 12 hr. TWA Total dust.

* 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	: solid, granular
Color	: light brown
Odor	: slight
pH	: 8.6 - 9.4
Melting point/range	: Not available for this mixture.
Boiling point/boiling range	: Not applicable
Oxidising Substance	: The product is not oxidizing.
Vapour Pressure	: Not available for this mixture.
Density	: at 22 °C (72 °F)
Water solubility	: soluble
Partition coefficient: n- octanol/water	: Not applicable
Viscosity	: Not applicable
Vapour density	: Not available for this mixture.
Phys.-chem./other information	: No other data to be specially mentioned.

SECTION 10. STABILITY AND REACTIVITY

Stability	: Stable at normal temperatures and storage conditions.
Incompatibility	: No materials to be especially mentioned.
Hazardous decomposition products	: Hazardous combustion products: Carbon dioxide (CO ₂), Nitrogen oxides (NO _x)


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SECTION 11. TOXICOLOGICAL INFORMATION

DuPont™ Predicade™ Broadleaf	
Inhalation 4 h LC50	: > 6.0 mg/l , Rat Active ingredient
Dermal LD50	: > 5,000 mg/kg , Rat
Oral LD50	: > 5,000 mg/kg , Rat
Skin irritation	: No skin irritation, Rat
Eye irritation	: No eye irritation, Rabbit
Sensitisation	: Causes sensitisation., Guinea pig
Further information	: Information given is based on data on the components and the toxicology of similar products.
Thifensulfuron methyl	
Repeated dose toxicity	: The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions. Oral - feed multiple species Reduced body weight gain
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	: No toxicity to reproduction Animal testing showed no reproductive toxicity.
Teratogenicity	: Did not show teratogenic effects in animal experiments. Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.
Tribenuron methyl	
Repeated dose toxicity	: The following effects occurred at levels of exposure that significantly



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exceed those expected under labeled usage conditions.

Oral - feed
 Mouse
 90 d
 Reduced body weight gain

Oral
 Rat
 28 d
 Reduced body weight gain

- Carcinogenicity : Not classifiable as a human carcinogen.
 An increased incidence of tumours was observed in laboratory animals.
 Target(s):
 Mammary glands
- Mutagenicity : Animal testing did not show any mutagenic effects.
 Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
- Reproductive toxicity : No toxicity to reproduction

SECTION 12. ECOLOGICAL INFORMATION

- Aquatic Toxicity
- Thifensulfuron methyl
 - 96 h LC50 : Oncorhynchus mykiss (rainbow trout) > 100 mg/l
 - 14 d EC50 : Lemna minor (duckweed) 0.0013 mg/l
 - 48 h EC50 : Daphnia magna (Water flea) 470 mg/l
 - 28 d : NOEC Americamysis bahia (mysid shrimp) 7.93 mg/l
- Tribenuron methyl
 - 96 h LC50 : Oncorhynchus mykiss (rainbow trout) 738 mg/l
 - 120 h EC50 : Pseudokirchneriella subcapitata (microalgae) 0.0208 mg/l



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14 d EC50 : Lemna gibba (duckweed) 0.00424 mg/l

48 h EC50 : Daphnia magna (Water flea) > 894 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.

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.

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

SECTION 14. TRANSPORT INFORMATION

IATA_C	UN number	: 3077
	Proper shipping name	: Environmentally hazardous substance, solid, n.o.s. (Tribenuron methyl, Thifensulfuron-methyl)
	Class	: 9
	Packing group	: III
	Labelling No.	: 9MI
IMDG	UN number	: 3077
	Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Tribenuron methyl, Thifensulfuron-methyl)
	Class	: 9
	Packing group	: III
	Labelling No.	: 9
	Marine pollutant	: yes (Tribenuron methyl, Thifensulfuron-methyl)

Not regulated as a hazardous material by TDG.



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SECTION 15. REGULATORY INFORMATION

PCP Registration # : 31713
Remarks : Regulated under the Pest Control Products Act - WHMIS exempt.

SECTION 16. OTHER INFORMATION

MSDS preparation date : 03/02/2015

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

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