



DuPont™ Hyvar® X-L Herbicide

Version 2.1

Revision Date 02/02/2015

Ref. 130000023989

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™ Hyvar® X-L Herbicide
Tradename/Synonym : HYVAR® XL
B10056778
Bromacil: (5-bromo-3-sec-butyl-6-methyluracil)
Lithium Salt of Bromacil: 5-Bromo-3-sec-butyl-6-methylpyrimidine-2,4(1H,3H)-dione, lithium salt

MSDS Number : 130000023989

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

Emergency Overview

Caution

Harmful if swallowed or absorbed through the skin . Causes moderate eye irritation. Avoid contact with skin, eyes and clothing.

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.

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.

Bromacil A3

Ethanol A3

Ethane-1,2-diol : DuPont has classified this material as a probable human carcinogen.

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**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 : No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.
- 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. 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

- Flammable Properties
- Flash point : 44 °C (111 °F)
Method : Setaflash closed cup - SCC



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Auto-ignition temperature : 410 °C (770 °F)

Suitable extinguishing media : Water spray, Dry chemical, Foam, Carbon dioxide (CO2)

Firefighting Instructions : Wear full protective clothing and self-contained breathing apparatus. Do not allow run-off from fire fighting to enter drains or water courses. Runoff from fire control may be a pollution hazard. Control Runoff. (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) : Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus. Use personal protective equipment.

Spill Cleanup : Dike spill. If spill area is on ground near valuable plants or trees, remove top 2 inches of soil after initial 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) : Do not use or store near heat or open flame. 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. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Handling (Physical Aspects) : Combustible
Keep away from heat and sources of ignition.



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Storage : Store in original container. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : Use only with adequate ventilation. Keep container tightly closed. When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Personal protective equipment
Skin and body protection : Applicators and other handlers must wear:
 Long sleeved shirt and long pants
 Shoes plus socks
 Chemical-resistant gloves

Protective measures : Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them. 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

Ethylene Glycol			
TLV	(ACGIH)	100 mg/m3	TLV-C Aerosol.
AEL *	(DUPONT)	10 mg/m3	8 & 12 hr. TWA Particulate.
AEL *	(DUPONT)	50 ppm	8 & 12 hr. TWA Vapor.
Bromacil			
TLV	(ACGIH)	10 mg/m3	TWA
AEL *	(DUPONT)	10 mg/m3	8 & 12 hr. TWA


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Ethanol			
TLV	(ACGIH)	1,000 ppm	STEL
AEL *	(DUPONT)	1,000 ppm	8 & 12 hr. TWA
Methanol			
TLV	(ACGIH)	200 ppm	TWA
TLV	(ACGIH)	250 ppm	STEL
AEL *	(DUPONT)	200 ppm	8 & 12 hr. TWA, Skin
Lithium hydroxide monohydrate			
AEL *	(DUPONT)	1 mg/m3	8 & 12 hr. TWA Lithium

* AEL is the Manufacturer'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	: liquid
Color	: amber
Odor	: alcohol-like
pH	: 11.2 - 12.2
Water solubility	: soluble

SECTION 10. STABILITY AND REACTIVITY

Stability	: Stable at normal temperatures and storage conditions.
Conditions to avoid	: Heat, flames and sparks.
Incompatibility	: Incompatible with acids. Amines



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Hazardous decomposition products : Carbon oxides, Decomposes with heat.
Hazardous reactions : Heating can release vapours which can be ignited.
Polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

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Inhalation 4 h LC50 : > 2.0 mg/l , Rat
Dermal LD50 : > 5,000 mg/kg , Rat
Oral LD50 : 3,927 mg/kg , male, Rat
Oral LD50 : 1,414 mg/kg , female, Rat
Skin irritation : Moderate skin irritation, Rabbit
Eye irritation : Moderate eye irritation, Rabbit
Sensitisation : Did not cause sensitisation on laboratory animals., Guinea pig

SECTION 12. ECOLOGICAL INFORMATION

Additional ecological information : 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:


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Refer to the product label for instructions.
Do not transport if this container is damaged or leaking.

SECTION 14. TRANSPORT INFORMATION

TDG_ROAD	UN number	: 1993
	Proper shipping name	: FLAMMABLE LIQUID, N.O.S. (Ethanol, Methanol)
	Class	: 3
	Packing group	: III
TDG_RAIL	Labelling No.	: 3
	UN number	: 1993
	Proper shipping name	: FLAMMABLE LIQUID, N.O.S. (Ethanol, Methanol)
	Class	: 3
IATA_C	Packing group	: III
	Labelling No.	: 3
	UN number	: 1993
	Proper shipping name	: Flammable liquid, n.o.s. (Ethanol, Methanol)
IMDG	Class	: 3
	Packing group	: III
	Labelling No.	: 3
	UN number	: 1993
	Proper shipping name	: FLAMMABLE LIQUID, N.O.S. (Ethanol, Methanol)
	Class	: 3
	Packing group	: III
	Labelling No.	: 3
	Marine pollutant	: yes (Bromacil)

Note: Shipper may use the DOT provision found in 49 CFR, 173.120(b)(2) and transport as "Not Transport Regulated" by DOT for U.S. domestic transportation in non-bulk packages.

NOTE: Shipper may use TDG Special Case found in section 1:33 of the TDG Regulations and transport as "Not Transport Regulated" by Transport Canada for domestic road and rail shipments in small means of containment.



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SECTION 15. REGULATORY INFORMATION

EPA Reg. No. : 352-346
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.

PCP Registration # : 11018
Remarks : Regulated under the Pest Control Products Act - WHMIS exempt.

SECTION 16. OTHER INFORMATION

MSDS preparation date : 02/02/2015

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® 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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