



Du Pont
Material Safety Data Sheet

M0000506 "DuPont" "HYVAR" X-L
Revised 11-OCT-2008

Substance ID :130000023989

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"HYVAR" is a registered trademark of DuPont.

"DuPont" is a trademark of DuPont.

Company Identification

MANUFACTURER/DISTRIBUTOR

DuPont
1007 Market Street
Wilmington, DE 19898

PHONE NUMBERS

Product Information : 1-800-441-7515 (outside the U.S.
302-774-1000)
Transport Emergency : CHEMTREC 1-800-424-9300(outside U.S.
703-527-3887)
Medical Emergency : 1-800-441-3637 (outside the U.S.
302-774-1000)

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Table with 3 columns: Material, CAS Number, and %. Rows include *BROMACIL (LITHIUM SALT OF 5-BROMO-3-SEC-BUTYL-6-METHYLURACIL), INERT INGREDIENTS, * ETHYLENE GLYCOL, ETHANOL, and * METHANOL.

* Disclosure as a toxic chemical is required under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

HAZARDS IDENTIFICATION

Emergency Overview

CAUTION! Harmful if swallowed or absorbed through skin.

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Causes moderate eye irritation. Avoid contact with eyes, skin or clothing.

Potential Health Effects

Based on animal studies, eye contact with "Hyvar" X-L may cause moderate corneal opacity.

Based on animal studies, skin contact with "Hyvar" X-L may cause skin irritation or rash.

Carcinogenicity Information

The following components are listed by IARC, NTP, OSHA or ACGIH as carcinogens.

Material	IARC	NTP	OSHA	ACGIH
BROMACIL				A3

FIRST AID MEASURES

First Aid

IF IN EYES: 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.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF INHALED: No specific intervention is indicated as the product is not likely to be hazardous by inhalation. Consult a physician if necessary.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-441-3637 for emergency medical emergencies involving this product.

FIRE FIGHTING MEASURES

Flammable Properties

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Flash Point : 44 C (111 F)
Method : Setaflash
Autoignition : 410 C (770 F)

Combustible. Heating can release vapors which can be ignited.

Do not store near heat or open flame.

Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.

Fire Fighting Instructions

Wear self-contained breathing apparatus. Wear full protective equipment. Use water spray. Cool tank/container with water spray. Runoff from fire control may be a pollution hazard.

If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Initial Containment

Dike spill. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

Soak up with sawdust, sand, oil dry or other absorbent material.

Accidental Release Measures

If spill area is on ground near valuable plants or trees, remove top 2 inches of soil after initial cleanup.

HANDLING AND STORAGE

Handling (Personnel)

USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

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Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Handling (Physical Aspects)

Keep away from heat, sparks and flames.

Storage

Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Keep container closed when not in use.

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 Workers 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

Some materials that are chemical resistant to this product are listed below. If you want more options follow the instructions for Category C on the EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Shoes plus socks.
- Chemical Resistant Gloves, Category C (such as butyl rubber, neoprene rubber, or nitrile rubber) equal to or greater than 14 mils.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Exposure Guidelines

Applicable Exposure Limits

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BROMACIL

PEL (OSHA) : None Established
 TLV (ACGIH) : 10 mg/m³, 8 Hr. TWA, A3
 AEL * (DuPont) : 10 mg/m³, 8 & 12 Hr. TWA

ETHYLENE GLYCOL

PEL (OSHA) : None Established
 TLV (ACGIH) : Ceiling: 39.4 ppm, 100 mg/m³, aerosol, A4
 AEL * (DuPont) : 50 ppm, 8 & 12 Hr. TWA, vapor
 10 mg/m³, 8 & 12 Hr. TWA, particulate
 Aerosol

ETHANOL

PEL (OSHA) : 1,000 ppm, 1,900 mg/m³, 8 Hr. TWA
 TLV (ACGIH) : 1,000 ppm, 1,880 mg/m³, 8 Hr. TWA, A4
 Notice of Intended Changes (2008)
 STEL 1000 ppm, A3
 AEL * (DuPont) : 1000 ppm, 8 & 12 Hr. TWA

METHANOL

PEL (OSHA) : 200 ppm, 260 mg/m³, 8 Hr. TWA
 TLV (ACGIH) : 200 ppm, 8 Hr. TWA, Skin
 STEL 250 ppm
 AEL * (DuPont) : 200 ppm, 8 & 12 Hr. TWA, Skin

* 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.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Solubility in Water : Soluble
 pH : 11.2 - 12.2
 Odor : Alcoholic
 Form : Liquid
 Color : Amber
 Density : 1.12 g/cc

Physical Hazards

Combustible. Do not use or store near heat or open flame.
 Keep container tightly closed when not in use.

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials

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METHANOL

Toxic effects that may result from excessive exposure to methanol include visual disturbances or blindness, narcosis and other CNS effects, liver effects, and acidosis.

Individuals with preexisting diseases of the retina or liver may have increased susceptibility to methanol toxicity.

ETHYLENE GLYCOL

Immediate effects of overexposure to ethylene glycol by ingestion or inhalation may include non-specific effects such as headache, nausea and weakness. Gross overexposure may cause central nervous system depression with dizziness, confusion, incoordination, drowsiness or unconsciousness; altered kidney function which may be accompanied by abnormal urine volume, low back pain, discomfort or edema; kidney stones; liver abnormalities; high blood pressure; irregular heart beat with a strange sensation in the chest, "heart thumping"; apprehension; lightheadedness, feeling of fainting, dizziness, weakness, sometimes progressing to loss of consciousness; retention of acid in the blood, making oxygen less available in the blood stream and leading to symptoms of increased breathing rate, nausea, vomiting, confusion and weakness which may progress to loss of consciousness. Gross overexposure could lead to death. Skin permeation can occur in amounts capable of producing the effects of systemic toxicity. There are no reports of human sensitization. Individuals with preexisting diseases of the kidneys may have increased susceptibility to the toxicity of excessive exposures.

ETHANOL

Toxic effects described in animals include effects on the liver, reproductive system, and cardiovascular system along with CNS depression.

ECOLOGICAL INFORMATION
-----**Ecotoxicological Information****AQUATIC TOXICITY**

For the active ingredient Bromacil:

96 hr LC50 Rainbow trout	:	36 mg/L
96 hr LC50 Bluegill sunfish	:	127 mg/L
96 hr LC50 Fathead minnows	:	182 mg/L

AVIAN TOXICITY

For the active ingredient Bromacil:

Acute Oral LD50 Bobwhite quail	:	2250 mg/kg
Subacute Dietary LC50 Mallard duck	:	>10,000 ppm
Subacute Dietary LC50 Bobwhite quail	:	>10,000 ppm

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

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

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.

Container Disposal

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

TRANSPORTATION INFORMATION

Shipping Information

DOT

Proper Shipping Name: Not regulated for domestic non-bulk shipments*

IMO/IATA

Proper Shipping Name: Flammable liquid, n.o.s., (Ethanol, Methanol)

Hazard Class : 3

UN No. : UN 1993

Special Information : Flashpoint 44 DEG C (for ocean transport only)

Packing Group : III

*For Domestic Bulk Shipments:

Proper shipping name: Combustible liquid, n.o.s., (Ethanol, Methanol)

NA No. : NA 1993

Packing Group : III

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REGULATORY INFORMATION

U.S. Federal Regulations

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes
Chronic : Yes
Fire : Yes
Reactivity : No
Pressure : No

In the United States this product is regulated by the US Environmental Protection Agency under the Federal Insecticide, Fungicide and Rodenticide Act. It is a violation of federal law to use this product in a manner inconsistent with its labeling.

EPA Reg. No. 352-346

ADDITIONAL REGULATORY INFORMATION

SARA/CERCLA Reportable Quantity:
Methyl alcohol (5,000 lb)

*****ATTENTION*****

CALIFORNIA PROPOSITION 65

THIS PRODUCT CONTAINS LITHIUM SALT OF BROMACIL
WHICH IS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE
DEVELOPMENTAL EFFECTS AND MALE REPRODUCTION EFFECTS.

OTHER INFORMATION

NFPA, NPCA-HMIS

NFPA Rating
Health : 1
Flammability : 2
Reactivity : 0

NPCA-HMIS Rating
Health : 1
Flammability : 2
Reactivity : 0

(Continued)

Personal Protection rating to be supplied by user depending on use conditions.

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The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS : DuPont Crop Protection
Address : Wilmington, Delaware 19898
Telephone : 1-888-638-7668

Indicates updated section.