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"DuPont" "VELPAR" DF HERBICIDE  
GPA00095 Revised 27-JAN-2009 Printed 27-JAN-2009  
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CHEMICAL PRODUCT/COMPANY IDENTIFICATION  
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Material Identification

VELPAR is a registered trademark of DuPont.

"DuPont" is a trademark of DuPont.

Corporate MSDS Number : DU008210

Tradenames and Synonyms

"VELPAR" DF  
DUPONT VELPAR 75WG  
"VELPAR" 75WG

Company Identification

MANUFACTURER/DISTRIBUTOR  
E.I. du Pont Canada Company  
P.O. Box 2200  
Streetsville  
Mississauga, Ontario L5M 2H3

PHONE NUMBERS

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

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COMPOSITION/INFORMATION ON INGREDIENTS  
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Components

Material	CAS Number	%
*HEXAZINONE (3-cyclohexyl-6-(dimethylamino)-1-methyl-1,3,5- triazine-2,4(1H,3H)-dione)	51235-04-2	75 WT%
INERT INGREDIENTS		25 WT%

\* 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.

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HAZARDS IDENTIFICATION  
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## Emergency Overview

DANGER! CAUSES EYE DAMAGE. Corrosive, causes irreversible eye damage. Harmful if swallowed. Do not get in eyes or on clothing. Avoid contact with skin. Wash thoroughly with soap and water after handling.

## Potential Health Effects

Based on animal data, skin contact with Velpar DF may cause skin irritation with discomfort or rash.

Based on animal data, eye contact with Velpar DF may cause corneal opacity or clouding of the eye.

Based on data from animal testing, ingestion of large amounts of Velpar DF may cause effects on the liver.

## Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

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FIRST AID MEASURES  
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## 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 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 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

INHALATION: No specific intervention is indicated, as the compound is not likely to be hazardous by inhalation. Consult a physician if necessary.

## (FIRST AID MEASURES - Continued)

## Notes to Physicians

Probable mucosal damage may contraindicate the use of gastric lavage.

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 treatment information.

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FIRE FIGHTING MEASURES  
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## Flammable Properties

Not a fire or explosion hazard.

## Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.

## Fire Fighting Instructions

Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment.

If area is exposed to fire and conditions permit, let fire burn itself out. Burning chemicals may produce by-products more toxic than the original material. If product is on fire, wear self-contained breathing apparatus and full protective equipment. Use water spray. Control runoff.

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ACCIDENTAL RELEASE MEASURES  
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## Safeguards (Personnel)

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

Emergency Response - Chemical resistant coveralls, waterproof gloves, waterproof boots and face/eye protection. If dusting occurs, use NIOSH approved respirator protection.

## Initial Containment

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

## Spill Clean Up

Shovel or sweep up.

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HANDLING AND STORAGE  
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## Handling (Personnel)

Do not get in eyes. Avoid breathing dust. Avoid contact with skin. Avoid contact with clothing.

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

## Storage

Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in a cool, dry place.

Keep out of reach of children.

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EXPOSURE CONTROLS/PERSONAL PROTECTION  
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## Engineering Controls

Use only with adequate ventilation.

## Personal Protective Equipment

Applicators and other handlers must wear:

Long-sleeved shirt and long pants.  
Shoes plus socks.  
Protective eyewear.

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

Follow manufacturer 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.

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 eyewear.

## # Exposure Guidelines

## Applicable Exposure Limits

## HEXAZINONE

PEL (OSHA) : None Established  
TLV (ACGIH) : None Established  
AEL \* (DuPont) : 10 mg/m<sup>3</sup>, 8 & 12 Hr. TWA, total dust  
5 mg/m<sup>3</sup>, 8 & 12 Hr. TWA, respirable 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.

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PHYSICAL AND CHEMICAL PROPERTIES  
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## Physical Data

Odor : Acrid (slight).  
Form : Dry Flowable Granules.  
Color : Tan (light).  
pH : 8.4 (1% wt/wt in water)  
Density : 0.58 g/mL

Solubility in Water : Water Dispersible

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STABILITY AND REACTIVITY  
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## Chemical Stability

Stable at normal temperatures and storage conditions.

## Incompatibility with Other Materials

Incompatible or can react with strong bases.

## Decomposition

Decomposition will not occur.

## Polymerization

Polymerization will not occur.

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TOXICOLOGICAL INFORMATION  
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## Animal Data

## "VELPAR" DF

Oral LD50: 1310 mg/kg in rats  
Dermal LD50: > 5000 mg/kg in rabbits  
Inhalation 4 hour LC50: > 5.2 mg/L in rats

"VELPAR" DF is a moderate skin irritant, is corrosive to the eye, but is not a skin sensitizer in animals.

## (TOXICOLOGICAL INFORMATION - Continued)

## HEXAZINONE

Repeated skin applications indicated no irritation or systemic activity.

Repeated dosing by ingestion of excessive dietary levels of Hexazinone resulted in weight loss, alterations in liver weights, alteration in blood chemical measurements, and alterations in enzyme activities. No evidence of pathological organ damage was observed. Long-term dosing produced decreased weight gain, alterations in hematology, clinical chemistry, and blood enzyme levels, increased liver weights in some species, and pathological liver changes.

Animal data showed that chronic, excessive dietary exposure to Hexazinone produced a slight, equivocal increase in liver tumors in female mice.

Animal data show developmental effects occurred only at exposure levels producing other toxic effects in the adult animal. Animal testing indicates Hexazinone does not have reproductive effects. The weight of evidence from a battery of cell culture and laboratory animal tests indicates Hexazinone does not cause genetic toxicity.

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ECOLOGICAL INFORMATION  
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## Ecotoxicological Information

## AQUATIC TOXICITY:

## HEXAZINONE

96 hour LC50 - Fathead minnows: 274 mg/L  
96 hour LC50 - Bluegill sunfish: > 370 mg/L  
96 hour LC50 - Rainbow trout: > 320 mg/L

## AVIAN TOXICITY:

## HEXAZINONE

LD50 - Bobwhite Quail: 2258 mg/kg

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DISPOSAL CONSIDERATIONS  
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## Waste Disposal

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 disposing of equipment washwaters.

## (DISPOSAL CONSIDERATIONS - Continued)

The active ingredient, hexazinone, in this product is known to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground-water contamination.

## Container Disposal

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

For Fiber Sacks: Completely empty fiber sack by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into manufacturing or application equipment. Then dispose of sack in a sanitary landfill or by incineration if allowed by State and local authorities.

For Fiber Drums with Liners: Completely empty liners by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by State and local authorities. If the drum is contaminated and cannot be reused, dispose of in the same manner.

For Paper and Plastic Bags: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Container Refilling and Disposal (For Containers up to 250 gal): Refer to the product label.

If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product.

Container Disposal for Bulk Containers: Refer to the product label.

The container must only be refilled with this pesticide product. DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE. Do not transport if the container is damaged or leaking. Disposal of the container must be in compliance with State and local regulations.

For minor spills, leaks, etc., follow all precautions indicated on the product label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

## (DISPOSAL CONSIDERATIONS - Continued)

In the event of a major spill, fire or other emergency, call  
1-800-441-3637 day or night.

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TRANSPORTATION INFORMATION  
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## Shipping Information

DOT: Not Regulated by 49 CFR (DOT)  
IMO/IMDG: Not Regulated by IMO/IMDG  
IATA: Not regulated by IATA

Additional Information: Although material is not regulated  
by the DOT/IMO/IATA, it may be transported as a class 9 (UN  
3077) under special provision SP146 (DOT), 909 (IMDG) or A97  
(IATA). The following description would apply using any one  
of the aforementioned special provisions:

UN 3077, Environmentally hazardous substances, solid,  
n.o.s., (Hexazinone), 9, PG III

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REGULATORY INFORMATION  
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## U.S. Federal Regulations

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes  
Chronic : No  
Fire : No  
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. 352-581

## Canadian Regulations

Regulated under the Pest Control Products Act--WHMIS Exempt

Registration No. 25225 Pest Control Products Act

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OTHER INFORMATION  
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## NFPA, NPCA-HMIS

NFPA Rating  
Health : 2  
Flammability : 1  
Reactivity : 0

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

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

----- Crop Protection E.I. du Pont Canada Company  
Box 2200, Streetsville  
Mississauga, Ontario L5M 2H3  
(905) 821-3300.

# Indicates updated section.

End of MSDS