

**DuPont™ Velpar® DF Herbicide**

Version 2.1

Revision Date 02/09/2011

Ref. 130000000589

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

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	:	DuPont™ Velpar® DF Herbicide
Tradename/Synonym	:	DPX-A3674 75DF Velpar 75DF Velpar 75WG Style - Hexazinone 75WG Pinogard B10238956 HEXAZINONE (3-cyclohexyl-6-(dimethylamino)-1-methyl-1,3,5-triazine-2,4(1H,3H)-dione)
MSDS Number	:	130000000589
Product Use	:	Herbicide
Manufacturer	:	DuPont 1007 Market Street Wilmington, DE 19898
Product Information	:	1-800-441-7515 (outside the U.S. 1-302-774-1000)
Medical Emergency	:	1-800-441-3637 (outside the U.S. 1-302-774-1139)
Transport Emergency	:	CHEMTREC: 1-800-424-9300 (outside the U.S. 1-703-527-3887)

**SECTION 2. HAZARDS IDENTIFICATION**

## Emergency Overview

## Danger

Causes eye damage. Causes irreversible eye damage. Harmful if swallowed. Do not get in eyes or on clothing. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling.

Corrosive

## Potential Health Effects

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This section includes potential acute adverse effects which could occur if this material is not used according to the label.

Skin : May cause: Transient irritation with discomfort or rash

Eyes : May cause: clouding of the eye

**Carcinogenicity**

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.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS-No.	Concentration
Hexazinone	51235-04-2	75 %
Other Ingredients		25 %

**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.

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- 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.
- Notes to physician : Probable mucosal damage may contraindicate the use of gastric lavage.

**SECTION 5. FIRE-FIGHTING MEASURES**

- Flammable Properties  
Flash point : not applicable
- Suitable extinguishing media : Water spray, Foam, Dry chemical, Carbon dioxide (CO2)
- Unsuitable extinguishing media : High volume water jet, (contamination risk)
- Firefighting Instructions : In the event of fire, wear self-contained breathing apparatus. 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. Wear personal protective equipment. Keep people away from and upwind of spill/leak.
- Spill Cleanup : Dike spill. Prevent further leakage or spillage. Sweep up and shovel into



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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.

## **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.
- 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**

- Engineering controls : Use only with adequate ventilation.
- Personal protective equipment
  - Skin and body protection : Applicators and other handlers must wear:  
Long sleeved shirt and long pants  
Shoes plus socks  
Protective eyewear  
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
  - 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

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## Exposure Limit Values

Hexazinone

AEL \* (DUPONT) 10 mg/m<sup>3</sup> 8 & 12 hr. TWA Total dustAEL \* (DUPONT) 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.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Form : solid, granular  
Color : light tan  
Odor : mild, pungent  
pH : 8.4 at 10 g/l 20 °C (68 °F)  
Density : 0.58 g/ml  
Water solubility : dispersible

**SECTION 10. STABILITY AND REACTIVITY**

Stability : Stable at normal temperatures and storage conditions.  
Incompatibility : Hydrolyses in presence of: Strong acids and strong bases  
Hazardous reactions : Hazardous polymerization will not occur.

**SECTION 11. TOXICOLOGICAL INFORMATION**

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Inhalation 4 h LC50 : &gt; 5.2 mg/l , rat

Dermal LD50 : &gt; 5,000 mg/kg , rat

Oral LD50 : 1,310 mg/kg , rat

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Skin irritation	:	Moderate skin irritation, rabbit
Eye irritation	:	Corrosive, Irritating to eyes.
Sensitisation	:	Animal test did not cause sensitization by skin contact., guinea pig
Hexazinone		
Repeated dose toxicity	:	The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.  Oral - feed dog Increased liver enzyme levels in serum, Liver effects  Oral - feed rat Reduced body weight gain, Organ weight changes, Liver  Oral - feed mouse Reduced body weight gain, Organ weight changes, Liver, Liver effects
Carcinogenicity	:	Overall weight of evidence indicates that the substance is not carcinogenic.
Mutagenicity	:	Did not cause genetic damage in cultured bacterial cells. Did not cause genetic damage in cultured mammalian cells. Did not cause genetic damage in animals.
Reproductive toxicity	:	Animal testing showed no reproductive toxicity.
Teratogenicity	:	Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

**SECTION 12. ECOLOGICAL INFORMATION**Aquatic Toxicity  
Hexazinone

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96 h LC50 : Oncorhynchus mykiss (rainbow trout) &gt; 320 mg/l

48 h EC50 : Daphnia magna (Water flea) 110 mg/l

Toxicity to other organisms  
Hexazinone

LD50 : Colinus virginianus (Bobwhite quail) 2,258 mg/kg

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. 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.

Container Disposal : Container Refilling and Disposal:  
Refer to the product label for instructions.

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

**SECTION 14. TRANSPORT INFORMATION**

IATA\_C UN number : 3077

Proper shipping name : Environmentally hazardous substance, solid, n.o.s.  
(Hexazinone)

Class : 9

Packing group : III

Labelling No. : 9MI

IMDG UN number : 3077

# Material Safety Data Sheet



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Proper shipping name : Environmentally hazardous substance, solid, n.o.s.  
(Hexazinone)  
Class : 9  
Packing group : III  
Labelling No. : 9  
Marine pollutant : yes (Hexazinone)

Not regulated as a hazardous material by DOT.

### SECTION 15. REGULATORY INFORMATION

SARA 313 Regulated Chemical(s) : Hexazinone

Title III hazard classification : Acute Health Hazard: Yes  
Chronic Health Hazard: No  
Fire: No  
Reactivity/Physical hazard: No  
Pressure: No

EPA Reg. No. : 352-581  
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.

California Prop. 65 : Chemicals known to the State of California to cause cancer, birth defects or any other harm: none known

### SECTION 16. OTHER INFORMATION

	NFPA	HMIS
Health :	2	2



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Flammability	:	1	1
Reactivity/Physical hazard	:	0	0

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Contact person : DuPont Crop Protection, Wilmington, DE, 19898, Phone: 1-888-638-7668

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