

Safety Data Sheet



DuPont™ Velpar® L Herbicide

Version 2.0

Revision Date 05/28/2015

Ref. 13000000166

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® L Herbicide
Tradename/Synonym : DPX-A3674 250SL
Hexazinone:[3-cyclohexyl-6-(dimethylamino)-1-methyl-1,3,5-triazine-2,4(1H,3H)-dione]
Velpar® L

Product Use : Herbicide

Restrictions on use :
Do not use product for anything outside of the above specified uses

Manufacturer/Supplier : DuPont
4417 Lancaster Pike
Wilmington, DE 19805, USA

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

Product hazard category

Serious eye damage/eye irritation Category 1
Specific target organ toxicity - repeated exposure Category 2

Safety Data Sheet



DuPont™ Velpar® L Herbicide

Version 2.0

Revision Date 05/28/2015

Ref. 130000000166

Label content
Pictogram



Signal word : Danger

Hazardous warnings : Causes serious eye damage.
May cause damage to organs through prolonged or repeated exposure.
(Respiratory system, Kidney)

Hazardous prevention measures : Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Wear eye protection/ face protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
Dispose of contents/ container to an approved waste disposal plant.

Other hazards
No applicable data available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Hexazinone	51235-04-2	25 %
Sodium alkylnaphthalene sulfonate		1 - 5 %

Safety Data Sheet



DuPont™ Velpar® L Herbicide

Version 2.0

Revision Date 05/28/2015

Ref. 130000000166

Other Ingredients		75 %
-------------------	--	------

Includes percentages of the following:

Ethanol	64-17-5	40 - 45 %
---------	---------	-----------

SECTION 4. FIRST AID MEASURES

- 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.
- 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.
- 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.
- 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. Never give anything by mouth to an unconscious person.
- Most important symptoms/effects, acute and delayed** : No applicable data available.
- Protection of first-aiders** : No applicable data available.



DuPont™ Velpar® L Herbicide

Version 2.0

Revision Date 05/28/2015

Ref. 13000000166

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

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray, Dry chemical, Foam, Carbon dioxide (CO2)
- Unsuitable extinguishing media : High volume water jet, (contamination risk)
- Specific hazards : Vapours may form explosive mixtures with air.
- Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus. Use personal protective equipment.
- Further information : Evacuate personnel and keep upwind of fire.
(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. Do not allow run-off from fire fighting to enter drains or water courses. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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.
- Environmental precautions : Prevent material from entering sewers, waterways, or low areas.
- Spill Cleanup : Soak up with sawdust, sand, oil dry or other absorbent material. Dispose of in an approved container.
If liquid has been spilt in large quantities clean up promptly by scoop or vacuum.
- Accidental Release Measures : Never return spills in original containers for re-use. Dispose of in accordance with local regulations.



DuPont™ Velpar® L Herbicide

Version 2.0

Revision Date 05/28/2015

Ref. 130000000166

SECTION 7. HANDLING AND STORAGE

- Handling (Personnel) : Do not breathe vapor or mist. Avoid contact with skin, eyes and clothing. 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. Remove personal protective equipment immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.
- Handling (Physical Aspects) : Keep away from heat and sources of ignition.
- Dust explosion class : No applicable data available.
- Storage : Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.
- Storage period : No applicable data available.
- Storage temperature : No applicable data available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering controls : Ensure 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

Safety Data Sheet



DuPont™ Velpar® L Herbicide

Version 2.0

Revision Date 05/28/2015

Ref. 13000000166

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. Use this product in accordance with its label.

Exposure Guidelines Exposure Limit Values

Hexazinone				
AEL *	(DUPONT)	10 mg/m3	8 & 12 hr. TWA	Total dust
AEL *	(DUPONT)	5 mg/m3	8 & 12 hr. TWA	Respirable dust.
Sodium alkylnaphthalene sulfonate				
AEL *	(DUPONT)	0.05 mg/m3	8 & 12 hr. TWA	
Ethanol				
Permissible exposure limit:	(OSHA)	1,000 ppm	1,900 mg/m3	8 hr. TWA
TLV	(ACGIH)	1,000 ppm	STEL	
AEL *	(DUPONT)	1,000 ppm	8 & 12 hr. TWA	

* 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

Appearance	
Physical state	: liquid
Form	: liquid
Color	: light yellow
Odor	: alcohol-like
Odor threshold	: No applicable data available.
pH	: No applicable data available.
Melting point/range	: No applicable data available.

Safety Data Sheet



DuPont™ Velpar® L Herbicide

Version 2.0

Revision Date 05/28/2015

Ref. 13000000166

Boiling point/boiling range	: No applicable data available.
Flash point	: No applicable data available.
Evaporation rate	: No applicable data available.
Flammability (solid, gas)	: No applicable data available.
Upper explosion limit	: No applicable data available.
Lower explosion limit	: No applicable data available.
Vapor pressure	: 33 mm Hg at 25 °C (77 °F)
Vapour density	: No applicable data available.
Specific gravity (Relative density)	: 0.9776
Water solubility	: dispersible
Solubility(ies)	: No applicable data available.
Partition coefficient: n-octanol/water	: No applicable data available.
Auto-ignition temperature	: No applicable data available.
Decomposition temperature	: No applicable data available.
Viscosity, kinematic	: No applicable data available.
Viscosity, dynamic	: No applicable data available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No applicable data available.
Chemical stability	: Stable at normal temperatures and storage conditions.
Possibility of hazardous reactions	: Polymerization will not occur.
Conditions to avoid	: None reasonably foreseeable.

Safety Data Sheet



DuPont™ Velpar® L Herbicide

Version 2.0

Revision Date 05/28/2015

Ref. 13000000166

Incompatible materials : strong acids and bases (slowly hydrolyzes)

Hazardous decomposition products : No applicable data available.

SECTION 11. TOXICOLOGICAL INFORMATION

DuPont™ Velpar® L Herbicide

Inhalation 4 h LC50 : > 5.0 mg/l , Rat

Dermal LD50 : > 5,000 mg/kg , Rabbit

Oral LD50 : 4,120 mg/kg , Rat

Skin irritation : No skin irritation, Rabbit
Minimal effects that do not meet the threshold for classification.

Eye irritation : Corrosive, Rabbit

Sensitisation : Did not cause sensitisation on laboratory animals., Guinea pig

Hexazinone

Repeated dose toxicity : No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification., The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Oral
Dog

-
Reduced body weight gain, Liver effects, Organ weight changes, altered blood chemistry

Oral
Rat

-
Reduced body weight gain, Organ weight changes, Liver

Carcinogenicity : Not classifiable as a human carcinogen.
Overall weight of evidence indicates that the substance is not carcinogenic.



DuPont™ Velpar® L Herbicide

Version 2.0

Revision Date 05/28/2015

Ref. 130000000166

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

Reduced body weights in offspring at maternally toxic doses.

Teratogenicity : Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

Reduced body weights in offspring at maternally toxic doses.

Sodium alkylnaphthalene sulfonate
Repeated dose toxicity : Inhalation
Rat
-
Target Organs: Respiratory Tract
Respiratory tract damage, Pathologic changes

Oral
Rat
-
Target Organs: Kidney
Kidney effects, Reduced body weight gain

Reproductive toxicity : No toxicity to reproduction
Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity.

Teratogenicity : Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

Ethanol
Repeated dose toxicity : Oral
Rat
-
No toxicologically significant effects were found.

Inhalation
Rat
-

Safety Data Sheet



DuPont™ Velpar® L Herbicide

Version 2.0

Revision Date 05/28/2015

Ref. 13000000166

No toxicologically significant effects were found.

- | | | |
|-----------------------|---|---|
| Carcinogenicity | : | Not classifiable as a human carcinogen.
Overall weight of evidence indicates that the substance is not carcinogenic. |
| 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
Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity. |
| Teratogenicity | : | Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity. |

Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

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 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

DuPont™ Velpar® L Herbicide

- | | | |
|-----------|---|---|
| 96 h LC50 | : | Pimephales promelas (fathead minnow) 274 mg/l |
| 96 h LC50 | : | Lepomis macrochirus (Bluegill sunfish) > 370 mg/l |
| 96 h LC50 | : | Oncorhynchus mykiss (rainbow trout) > 320 mg/l |

Hexazinone

- | | | |
|-------------|---|---|
| 120 h ErC50 | : | Skeletonema costatum (Diatom) 0.022 mg/l |
| 120 h NOEC | : | Skeletonema costatum (Diatom) 0.0041 mg/l |

Safety Data Sheet



DuPont™ Velpar® L Herbicide

Version 2.0

Revision Date 05/28/2015

Ref. 13000000166

48 h EC50	:	Daphnia magna (Water flea) 152 mg/l
Ethanol	:	
96 h ErC50	:	Pseudokirchneriella subcapitata (green algae) 675 mg/l OECD Test Guideline 201
48 h EC50	:	Daphnia magna (Water flea) 5,012 mg/l
30 d	:	NOEC Fish (unspecified species) 245 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. 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.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods - Product	:	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.
Waste disposal methods - Container	:	Refer to the product label for instructions. Do not transport if this container is damaged or leaking. In the event of a major spill, fire or other emergency, call 1-800-441-3637 day or night.
Contaminated packaging	:	No applicable data available.

SECTION 14. TRANSPORT INFORMATION

DOT	UN number	:	1170
	Proper shipping name	:	Ethanol solutions
	Class	:	3
	Packing group	:	III
	Labelling No.	:	3

Safety Data Sheet



DuPont™ Velpar® L Herbicide

Version 2.0

Revision Date 05/28/2015

Ref. 13000000166

IATA_C	UN number	: 1170
	Proper shipping name	: Ethanol solution
	Class	: 3
	Packing group	: III
	Labelling No.	: 3
IMDG	UN number	: 1170
	Proper shipping name	: ETHANOL SOLUTION
	Class	: 3
	Packing group	: III
	Labelling No.	: 3

SECTION 15. REGULATORY INFORMATION

Other regulations : This Safety Data Sheet is for a pesticide product registered by the US Environmental Protection Agency (USEPA) and is therefore also subject to certain labeling requirements under US pesticide law (FIFRA). These requirements differ from the classification criteria and hazard information required by OSHA for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the mandatory hazard information required by USEPA on the pesticide label:

Danger

Causes irreversible eye damage. Do not get in eyes or on clothing. Wash thoroughly with soap and water after handling. Corrosive

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

EPA Reg. No. : 352-392
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.

Safety Data Sheet



DuPont™ Velpar® L Herbicide

Version 2.0

Revision Date 05/28/2015

Ref. 130000000166

California Prop. 65

⚠️ **WARNING!** This product contains a chemical or chemicals known to the State of California to cause cancer.
WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

SECTION 16. OTHER INFORMATION

™ Trademark of E.I. du Pont de Nemours and Company.

® Registered trademark of E.I. du Pont de Nemours and Company

Revision Date : 05/28/2015

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Significant change from previous version is denoted with a double bar.