



### VELPAR® L VU

Version 2.0 / USA  
102000030319

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Revision Date: 10/02/2015  
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## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Trade name** VELPAR® L VU

**Product code (UVP)** 84114669

**SDS Number** 102000030319

**EPA Registration No.** 432-1573

### Relevant identified uses of the substance or mixture and uses advised against

**Use** Herbicide

**Restrictions on use** See product label for restrictions.

### Information on supplier

**Supplier** Bayer Environmental Science  
2 T.W. Alexander Drive  
Research Triangle PK, NC 27709  
United States

**Responsible Department** Email: SDSINFO.BCS-NA@bayer.com

### Emergency telephone no.

**Emergency Telephone Number (24hr/ 7 days)** 1-800-334-7577

**Product Information Telephone Number** 1-800-331-2867

## SECTION 2: HAZARDS IDENTIFICATION

### Classification in accordance with regulation HCS 29CFR §1910.1200

Serious eye damage: Category 1

Flammable liquids: Category 3



**Signal word:** Danger

### Hazard statements

Causes serious eye damage.

Flammable liquid and vapour.

### Precautionary statements

Wear protective gloves and eye protection/face protection.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
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/physician.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
Store in a well-ventilated place. Keep cool.  
Dispose of contents/container in accordance with local regulation.

**Other hazards**

No other hazards known.

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

Hazardous Component Name	CAS-No.	Concentration % by weight
Hexazinone	51235-04-2	25.0
Ethanol	64-17-5	41.6

**SECTION 4: FIRST AID MEASURES****Description of first aid measures**

<b>General advice</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Inhalation</b>	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 physician or poison control center immediately.
<b>Skin contact</b>	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
<b>Eye contact</b>	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 physician or poison control center immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. 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. Do not leave victim unattended.



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#### Most important symptoms and effects, both acute and delayed

**Symptoms** To date no symptoms are known.

#### Indication of any immediate medical attention and special treatment needed

**Treatment** Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

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### SECTION 5: FIREFIGHTING MEASURES

#### Extinguishing media

**Suitable** Water spray, Foam, Dry chemical, Carbon dioxide (CO<sub>2</sub>)

**Unsuitable** High volume water jet

#### Advice for firefighters

**Special protective equipment for fire-fighters** Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**Further information** Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Whenever possible, contain fire-fighting water by diking area with sand or earth. Do not allow run-off from fire fighting to enter drains or water courses. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

**Flash point** 23 - 25 °C

**Autoignition temperature** no data available

**Lower explosion limit** no data available

**Upper explosion limit** no data available

**Explosivity** not applicable

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Precautions** Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Remove all sources of ignition. Keep unauthorized people away.

#### Methods and materials for containment and cleaning up

**Methods for cleaning up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

**Additional advice** Do not allow to enter soil, waterways or waste water canal. Do not

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allow product to contact non-target plants. Use personal protective equipment.

**Reference to other sections** Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

**SECTION 7: HANDLING AND STORAGE****Precautions for safe handling**

**Advice on safe handling** Use only in area provided with appropriate exhaust ventilation. Handle and open container in a manner as to prevent spillage.

**Advice on protection against fire and explosion** Keep away from heat and sources of ignition. The product is extremely flammable.

**Hygiene measures** Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

**Conditions for safe storage, including any incompatibilities**

**Requirements for storage areas and containers** Store in original container and out of the reach of children, preferably in a locked storage area. Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Keep away from direct sunlight. Protect from freezing.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Ethanol	64-17-5	1,000 ppm (STEL)	02 2012	ACGIH
Ethanol	64-17-5	1,900 mg/m <sup>3</sup> /1,000 ppm (REL)	2010	NIOSH
Ethanol	64-17-5	1,900 mg/m <sup>3</sup> /1,000 ppm (PEL)	02 2006	OSHA Z1
Ethanol	64-17-5	1,900 mg/m <sup>3</sup> /1,000 ppm (TWA)	1989	OSHA Z1A
Ethanol	64-17-5	1,900 mg/m <sup>3</sup> /1,000 ppm (TWA)	06 2008	TN OEL
Ethanol	64-17-5	1010ppb (ST ESL)	02 2013	TX ESL
Ethanol	64-17-5	1000ppb	07 2011	TX ESL

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		(AN ESL)		
Ethanol	64-17-5	1910ug/m3 (ST ESL)	02 2013	TX ESL
Ethanol	64-17-5	1880ug/m3 (AN ESL)	07 2011	TX ESL
Ethanol	64-17-5	1,900 mg/m3/1,000 ppm (TWA PEL)	08 2010	US CA OEL
Ethanol	64-17-5	500 ppm (TWA)		OES BCS*
Hexazinone	51235-04-2	50ug/m3 (ST ESL)	07 2011	TX ESL
Hexazinone	51235-04-2	5ug/m3 (AN ESL)	07 2011	TX ESL

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

**Exposure controls****Personal protective equipment**

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

**Respiratory protection**

When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

**Hand protection**

Chemical resistant nitrile rubber gloves

**Eye protection**

Safety glasses with side-shields  
or  
Goggles

**Skin and body protection**

Wear long-sleeved shirt and long pants and shoes plus socks.

**General protective measures**

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.

Keep and wash PPE separately from other laundry.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	light yellow
<b>Physical State</b>	Liquid
<b>Odor</b>	alcoholic
<b>Odour Threshold</b>	no data available
<b>pH</b>	no data available
<b>Vapor Pressure</b>	33 hPa / 24.8 mm Hg at 25 °C
<b>Vapor Density (Air = 1)</b>	no data available



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<b>Density</b>	0.97 g/cm <sup>3</sup> at 20 °C
<b>Evaporation rate</b>	no data available
<b>Boiling Point</b>	no data available
<b>Melting / Freezing Point</b>	no data available
<b>Water solubility</b>	dispersible
<b>Minimum Ignition Energy</b>	not applicable
<b>Decomposition temperature</b>	no data available
<b>Partition coefficient: n-octanol/water</b>	not applicable
<b>Viscosity</b>	no data available
<b>Flash point</b>	23 - 25 °C
<b>Autoignition temperature</b>	no data available
<b>Lower explosion limit</b>	no data available
<b>Upper explosion limit</b>	no data available
<b>Explosivity</b>	not applicable

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## SECTION 10: STABILITY AND REACTIVITY

### Reactivity

<b>Thermal decomposition</b>	no data available
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Incompatible materials</b>	Strong acids, Strong bases
<b>Hazardous decomposition products</b>	No decomposition products expected under normal conditions of use.

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## SECTION 11: TOXICOLOGICAL INFORMATION

<b>Exposure routes</b>	Eye contact, Ingestion, Skin contact
<b>Immediate Effects</b>	
<b>Eye</b>	Corrosive to eyes.
<b>Skin</b>	May cause skin irritation. Prolonged skin contact may cause skin irritation and/or dermatitis.
<b>Ingestion</b>	Harmful if swallowed.



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#### Information on toxicological effects

<b>Acute oral toxicity</b>	LD50 (rat) 4,120 mg/kg
<b>Acute inhalation toxicity</b>	LC50 (rat) > 5 mg/l Exposure time: 4 h
<b>Acute dermal toxicity</b>	LD50 (rat) > 5,000 mg/kg
<b>Skin irritation</b>	Slight irritation (rabbit)
<b>Eye irritation</b>	corrosive (rabbit)
<b>Sensitisation</b>	Non-sensitizing. (guinea pig)

#### ACGIH

Ethanol 64-17-5 Group A3

#### NTP

None.

#### OSHA

None.

#### Further information

Only acute toxicity studies have been performed on the formulated product.

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## SECTION 12: ECOLOGICAL INFORMATION

<b>Toxicity to fish</b>	LC50 (Oncorhynchus mykiss (rainbow trout)) > 320 mg/l Exposure time: 96 h
<b>Toxicity to aquatic invertebrates</b>	EC50 (Daphnia magna (Water flea)) 152 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient hexazinone.
<b>Toxicity to aquatic plants</b>	ErC50 (Skeletonema costatum) 0.022 mg/l Exposure time: 120 h The value mentioned relates to the active ingredient hexazinone.
<b>Environmental precautions</b>	Do not allow to get into surface water, drains and ground water. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Drift or runoff from treated areas may adversely affect non-target plants.

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## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### Product

Do not empty into drains.  
Do not contaminate water, food, or feed by disposal.  
Dispose in accordance with all local, state/provincial and federal regulations.

#### Contaminated packaging

Do not re-use empty containers.  
Triple rinse containers.  
Puncture container to avoid re-use.  
Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning.  
If burned, stay out of smoke.

#### RCRA Information

Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

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## SECTION 14: TRANSPORT INFORMATION

### 49CFR

UN number	1170
Class	3
Packaging group	III
Proper shipping name	ETHANOL SOLUTION

### IMDG

UN number	1170
Class	3
Packaging group	III
Marine pollutant	NO
Proper shipping name	ETHANOL SOLUTION

### IATA

UN number	1170
Class	3
Packaging group	III
Environm. Hazardous Mark	NO
Proper shipping name	ETHANOL SOLUTION

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

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## SECTION 15: REGULATORY INFORMATION

**EPA Registration No.** 432-1573

### US Federal Regulations

#### TSCA list

Hexazinone 51235-04-2

Ethanol 64-17-5

### US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

None.

### SARA Title III - Section 302 - Notification and Information

None.

### SARA Title III - Section 313 - Toxic Chemical Release Reporting

Hexazinone 51235-04-2

### US States Regulatory Reporting

#### CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

### US State Right-To-Know Ingredients

Hexazinone	51235-04-2	NJ, RI
Ethanol	64-17-5	CA, CT, MN

### Canadian Regulations

#### Canadian Domestic Substance List

None.

### Environmental

#### CERCLA

None.

#### Clean Water Section 307 Priority Pollutants

None.

#### Safe Drinking Water Act Maximum Contaminant Levels

None.

### EPA/FIFRA Information:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:



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**Signal word:** Danger!

**Hazard statements:** Corrosive - causes irreversible eye damage.  
Harmful if swallowed.  
Do not get in eyes or on clothing.  
Wash thoroughly with soap and water after handling.

## SECTION 16: OTHER INFORMATION

### Abbreviations and acronyms

49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
CAS-Nr.	Chemical Abstracts Service number
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	US. IARC Monographs on Occupational Exposures to Chemical Agents
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

### NFPA 704 (National Fire Protection Association):

Health - 2      Flammability - 3      Instability - 0      Others - none

### HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 2      Flammability - 3      Physical Hazard - 0      PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

**Reason for Revision:** New Safety Data Sheet.

**Revision Date:** 10/02/2015

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