SAFETY DATA SHEET



VELPAR® DF VU

Version 2.0 / USA 102000030328

Revision Date: 10/28/2015 Print Date: 10/28/2015

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name VELPAR® DF VU

Product code (UVP) 84088250

SDS Number 102000030328

EPA Registration No. 432-1576

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

Use Herbicide

Restrictions on useSee 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)

r/ 7 days)

Product Information Telephone Number

1-800-331-2867

1-800-334-7577

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200

Serious eye damage: Category 1 Acute toxicity(Oral): Category 4





Signal word: Danger

Hazard statements

Causes serious eye damage.

Harmful if swallowed.

Precautionary statements

Wear eye protection/face protection. Wash thoroughly after handling.

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Do not eat, drink or smoke when using this product.

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 SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.

Rinse mouth.

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 75.0

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice When possible, have the product container or label with you when

calling a poison control center or doctor or going for treatment.

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 physician or poison control center immediately.

Skin contact 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.

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 physician or poison control center

immediately.

Ingestion 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.

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 Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable High volume water jet

Special hazards arising from the substance or

mixture

Dangerous gases are evolved in the event of a fire.

Advice for firefighters

Special protective equipment for fire-fighters

Firefighters should wear NIOSH approved self-contained breathing

apparatus and full protective clothing.

Further information

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. Fight fire from upwind position. Keep out of smoke.

Flash point not applicable

Autoignition temperature no data available

Lower explosion limit not applicable

Upper explosion limit not applicable

Explosivity no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Precautions Evacuate and isolate spill area. Keep unauthorized people away.

Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with spilled product or contaminated surfaces.

Methods and materials for containment and cleaning up

Methods for cleaning upSweep up or vacuum up spillage and collect in suitable container for

disposal. Avoid dust formation. Clean contaminated floors and objects

thoroughly, observing environmental regulations.

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

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.

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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.

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.

Remove and wash contaminated gloves, including the inside, before reuse. Remove Personal Protective Equipment (PPE) immediately after handling this product. 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 a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and

feed. Keep out of the reach of children.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Hexazinone	51235-04-2	50ug/m3 (ST ESL)	07 2011	TX ESL
Hexazinone	51235-04-2	5ug/m3 (AN ESL)	07 2011	TX ESL
Barium sulfate (1:1) (Inhalable fraction.)	7727-43-7	5 mg/m3 (TWA)	02 2014	ACGIH
Barium sulfate (1:1) (Total)	7727-43-7	10 mg/m3 (REL)	2010	NIOSH
Barium sulfate (1:1) (Respirable.)	7727-43-7	5 mg/m3 (REL)	2010	NIOSH
Barium sulfate (1:1) (Respirable fraction.)	7727-43-7	5 mg/m3 (PEL)	02 2006	OSHA Z1
Barium sulfate (1:1) (Total dust.)	7727-43-7	15 mg/m3 (PEL)	02 2006	OSHA Z1
Barium sulfate (1:1) (Respirable fraction.)	7727-43-7	5 mg/m3 (TWA)	1989	OSHA Z1A
Barium sulfate (1:1) (Total dust.)	7727-43-7	10 mg/m3 (TWA)	1989	OSHA Z1A
Barium sulfate (1:1) (Total dust.)	7727-43-7	10 mg/m3 (TWA)	06 2008	TN OEL
Barium sulfate (1:1) (Respirable fraction.)	7727-43-7	5 mg/m3 (TWA)	06 2008	TN OEL

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Barium sulfate (1:1)	7727-43-7	50ug/m3 (ST ESL)	03 2014	TX ESL
Barium sulfate (1:1)	7727-43-7	5ug/m3 (AN ESL)	03 2014	TX ESL
Sodium benzoate	532-32-1	50ug/m3 (ST ESL)	03 2014	TX ESL
Sodium benzoate	532-32-1	5ug/m3 (AN ESL)	03 2014	TX ESL

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 Protective eyewear

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

mild pungent

Keep and wash PPE separately from other laundry.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance light tan **Physical State** granular

Odour Threshold no data available

pН 8.4 at 10 % (20 ℃)

Vapor Pressure no data available Vapor Density (Air = 1) no data available

Evapouration rate not applicable

Boiling Point not applicable **Melting / Freezing Point** not applicable Water solubility dispersible

Minimum Ignition Energy no data available Decomposition

temperature

Odor

no data available

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Partition coefficient: n-

octanol/water

not applicable

Viscosity

not applicable

Flash point not applicable

Autoignition temperature

no data available

Lower explosion limit
Upper explosion limit

not applicable not applicable

Explosivity

no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Thermal decomposition no data available

Chemical stability Stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Incompatible materials Strong acids, Strong bases

Hazardous decomposition

products

No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes Eye contact, Skin contact, Ingestion

Immediate Effects

Eye Corrosive - causes irreversible eye damage.

SkinModerate skin irritation.IngestionHarmful if swallowed.

Information on toxicological effects

Acute oral toxicity LD50 (rat) 1,310 mg/kg Acute inhalation toxicity LC50 (rat) > 5.2 mg/l

Exposure time: 4 h

Acute dermal toxicity LD50 (rat) > 5,000 mg/kg

Skin irritation Moderate skin irritation. (rabbit)

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Eye irritation Irritating to eyes. (rabbit)

Sensitisation Non-sensitizing. (guinea pig)

ACGIH

None.

NTP

None.

IARC

None.

OSHA

None.

Further information

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

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) > 320 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient hexazinone.

Toxicity to aquatic

invertebrates

EC50 (Daphnia magna (Water flea)) 110 mg/l

Exposure time: 48 h

The value mentioned relates to the active ingredient hexazinone.

Toxicity to other organisms LD50 (Colinus virginianus (Bobwhite quail)) 2,258 mg/kg

The value mentioned relates to the active ingredient hexazinone.

Environmental precautions 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.

Apply this product as specified on the label.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product Dispose in accordance with all local, state/provincial and federal

regulations.

Follow container label instructions for disposal of wastes generated

during use in compliance with the product label.

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Do not contaminate water, food, or feed by disposal.

Contaminated packaging Do not re-use empty containers.

Triple rinse containers.

Puncture container to avoid re-use.

Completely empty container into application equipment, then dispose of

empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities.

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.

SECTION 14: TRANSPORT INFORMATION

49CFR Not dangerous goods / not hazardous material

IMDG

UN number 3077
Class 9
Packaging group III
Marine pollutant YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(HEXAZINONE MIXTURE)

IATA

UN number 3077
Class 9
Packaging group III
Environm. Hazardous Mark YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(HEXAZINONE MIXTURE)

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.

SECTION 15: REGULATORY INFORMATION

EPA Registration No. US Federal Regulations

432-1576

TSCA list

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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

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:

Signal word: Danger!

Hazard statements: 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.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

49CFR Code of Federal Regulations, Title 49 ACGIH US. ACGIH Threshold Limit Values

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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 - 1 Instability - 0 Others - none

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

Health - 2 Flammability - 1 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: 10/28/2015

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