

1. IDENTIFICATION

PRODUCT NAME: Velpar® Alfamax™
DESCRIPTION: Urea, Triazine
EPA Reg. No.: 61842-45
Chemical Characterization: Substance
COMPANY IDENTIFICATION: Tessenderlo Kerley, Inc.
 2910 N. 44th Street, Suite 100
 Phoenix, AZ 85018-7272
 (602) 889-8300

2. HAZARD IDENTIFICATION

DANGER

Causes serious eye damage (H318)
 Suspected of causing cancer (H351)
 May cause damage to organs through prolonged or repeated exposure (blood, bladder)
 Harmful if inhaled (H332)
 Very toxic to aquatic life with long lasting effects (H400+H410)



HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Eye Damage/Irritation	1	None	--
Carcinogenicity	2		
Specific Target Organ Toxicity (Repeated Exposure)	2	Environmental Hazards	Category
Acute toxicity, inhalation	4	Hazardous to the Aquatic Environment – Acute	1
		Hazardous to the Aquatic Environment – Chronic	1

HAZARDS NOT REQUIRING CLASSIFICATION

None

PRECAUTIONARY STATEMENTS

Wash hands and exposed skin thoroughly after handling. Do not touch eyes. Obtain, read and follow all safety instructions before use. Do not breathe dust. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. (P264+P265+P203+ P260+P271+P280)

If exposed or concerned, get medical advice. Get medical help if you feel unwell. (P318+P319)

IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help (P305+P354+P338+P317)

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help. (P304+P340+P317)

Store locked up. (P405)

Avoid release to the environment not in accordance with the product label. Collect spillage. (P273+P391)

Dispose of contents / container using instructions in the product label and in accordance with local / Federal regulations. (P501)

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Common Name</u>	<u>Chemical Name</u>	<u>CAS #</u>	<u>Composition</u>
Diuron	Urea, N'-(3,4-dichlorophenyl)-N,N-dimethyl-	330-54-1	42.4%
Hexazinone	1,3,5-Triazine-2,4(1H,3H)-dione, 3-cyclohexyl-6-(dimethylamino)-1-methyl-	51235-04-2	35.3%

NOTE: Values are not product specifications.

4. FIRST AID MEASURES

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 1-866-374-1975. See Label for Additional Precautions and Directions for Use.

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 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.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIREFIGHTING MEASURES

Fire and Explosion Hazards: No data available.

Extinguishing Medium: Water spray, dry chemical, foam, and carbon dioxide (CO₂).

Fire Fighting Equipment: Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.

Fire Fighting Instructions: Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water / firefighting water; do not allow to enter drains or waterways. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

Hazardous Combustion Products: No data available.

NFPA Ratings: Health – 2 / Flammability – 1 / Reactivity - 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Isolate area and keep unnecessary and unprotected personnel from entering. Wear suitable personal protective clothing and equipment as described in Section 8 of this document. Ensure adequate ventilation.

Environmental Precautions: Contain spillage and minimize spread. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Keep out of drains, sewers, ditches and water ways. Do NOT contaminate water when disposing of rinse waters.

Spill Cleanup: Avoid creating dust during cleanup. Sweep, scoop or shovel spilled material and place into suitable closed containers for reuse or disposal. After decontamination, spill area can be washed with water. Collect washwater for approved disposal. Place leaking containers in oversize leakproof drums for transport.

7. HANDLING AND STORAGE

Handling: Do not get in eyes or on clothing. Avoid contact with skin. Wash thoroughly with soap and water after handling.

Storage: Store product in original container only. Store in a cool, dry place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters:

Diuron

Exposure Guideline	Exposure Limits Values	
ACGIH TLV	10 mg/m ³	TWA

Engineering Controls: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION (Continued)

Protective Clothing: Wear Long-sleeved shirt and long pants, shoes plus socks, protective eyewear, chemical resistant gloves made of any waterproof material such as polyethylene or polyvinylchloride. A NIOSH approved half mask respirator equipped with N, R, P, or HE particulate air filters and has the approval prefix 84A-xxxx. Chemical resistant apron when mixing, loading, or cleaning equipment or spills.

General: Immediately remove all soiled and contaminated clothing. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and was PPE separately from other laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	beige granules	pH:	7.4
Melting point:	not available	Kinematic viscosity:	not available
Boiling point:	not available	Solubility (water):	not available
Flammability:	not flammable	Partition coefficient:	not available
Flammability limits (upper/lower):	not applicable	Vapor pressure:	not available
Flash point (cc):	not available	Bulk Density:	not available
Auto-ignition temperature:	not available	Relative vapor density:	not available
Decomposition temperature:	not available	Particle characteristics:	not available
Odor:	slight odor		

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Ignition, heat, open flame and long exposure to high temperatures.

CHEMICAL STABILITY: Stable under all normal use and storage conditions.

INCOMPATIBILITY WITH OTHER MATERIALS: Strong acids or bases.

HAZARDOUS DECOMPOSITION PRODUCTS: No data available.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ORAL TOXICITY (rat LD₅₀): 2,152 mg/kg

DERMAL TOXICITY (rabbit LD₅₀): > 5,000 mg/kg

INHALATION TOXICITY (rat LC₅₀): 2.8 mg/L (4 hours)

EYE IRRITATION: Corrosive to the eyes (rabbits)

SKIN IRRITATION: No skin irritation (rabbits)

SKIN SENSITIZATION: Not a sensitizer (guinea pig)

CARCINOGENICITY:

EPA: "Known / likely" human carcinogen (Diuron)

ACGIH: Not Listed **NTP:** Not Listed

IARC: Not Listed **OSHA:** Not Listed

REPEATED DOSE TOXICITY:

For the active ingredient, diuron:

Oral (rat): Red blood cell destruction causing abnormal decrease in number of red blood cells (anemia), spleen effects, bone marrow changes, kidney effects, bladder effects, reduced body weight gain

Oral (dog): Red blood cell destruction causing abnormal decrease in number of red blood cells (anemia), spleen effects, bone marrow changes, reduced body weight gain

Inhalation (rat): Red blood cell destruction causing abnormal decrease in number of red blood cells (anemia), spleen effects

For the active ingredient, hexazinone:

Oral (Dog): Increased liver enzyme levels in serum, reduced body weight gain, organ weight changes (Liver)

REPRODUCTIVE TOXICITY: Animal testing did not show any effects on fertility nor reproductive toxicity.

11. TOXICOLOGICAL INFORMATION (Continued)

MUTAGENICITY / GENOTOXICITY: 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. Overall weight of evidence indicates that the substance is not mutagenic.

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

12. ECOLOGICAL INFORMATION

This product is very toxic to aquatic life with long lasting effects.

The following information is for the active ingredient, Hexazinone:

AQUATIC TOXICITY - Acute

Rainbow Trout (96-hour LC₅₀): >320 mg/L

Bluegill Sunfish (96-hour LC₅₀): >116 mg/L

Daphnia (48-hour EC₅₀): 152 mg/L

The following information is for the active ingredient, Diuron:

AQUATIC TOXICITY - Acute

Rainbow Trout (96-hour LC₅₀): 17.4 mg/L

Daphnia (48-hour EC₅₀): 1.4 mg/L

Algae (96-hour EC₅₀): 0.01 mg/L

According to the results of tests of biodegradability this product is not readily biodegradable.

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Nonrefillable and refillable containers. See container label for container handling and disposal instructions.

14. TRANSPORT INFORMATION

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

US-DOT:

Containers ≤ 11 lbs. (5 kg):

Not regulated

Containers > 11 lbs. (5 kg):

UN3077, Environmentally hazardous substance, solid, N.O.S. (hexazinone, diuron), 9, PG III, Marine Pollutant

DOT Emergency Guide: 171

IMDG:

UN3077, Environmentally hazardous substance, solid, N.O.S. (hexazinone, diuron), 9, PG III, Marine Pollutant

IATA:

UN3077, Environmentally hazardous substance, solid, N.O.S. (hexazinone, diuron), 9, PG III, Marine Pollutant

14. TRANSPORT INFORMATION (Continued)

EMS Number:

F-A, S-F

Additional Transportation information: In accordance with 49 CFR 171.4(c), non-bulk packagings (max capacity of 119 gal. (450 L) or less for liquids or 882 lbs. (400 kg) or less for solids) transported by motor vehicle, rail car or aircraft are excepted from all Marine Pollutants regulations in 49 CFR and therefore treated as non-hazardous material. All bulk shipments or any shipment transported partially or entirely by vessel are treated as regulated Marine Pollutants and are shipped according to the requirements listed.

15. REGULATORY INFORMATION

FIFRA –

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 GHS classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. 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.

ENVIRONMENTAL HAZARDS

For terrestrial uses, 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 of equipment or when 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. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground-water contamination.

This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators in areas adjacent to the treated area. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

Safety, health and environmental regulations/legislation specific for the substance or mixture

Section 355 (extremely hazardous substances): Not listed.

SARA Title III – Section 302 Extremely Hazardous Substances

Not listed

SARA Title III – Section 311/312 Hazard Categories

Immediate (Acute), Delayed (Chronic)


Section 313 (Toxic Release Reporting-Form R):

<u>Chemical name</u>	<u>CAS No.</u>	<u>Concentration</u>
Hexazinone	51235-04-2	35.3%
Diuron	3354-1	42.4

CERCLA/SUPERFUND:

RQ (Reportable Quantity): Diuron (CAS No. 330-54-1) 100 lbs.

California Proposition 65

 **WARNING:** This product can expose you to chemicals including diuron, which is known to the state of California to cause cancer. For more information go the www.P65Warnings.ca.gov.

RCRA Classification

Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

15. REGULATORY INFORMATION (Continued)

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

CANADA

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

16. OTHER INFORMATION

The information and recommendations contained herein are provided in good faith and are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information herein.

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SDS Version: 2.2

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