


NFPA HAZARD RATING				U.S. TRANSPORT SUMMARY	
0	Least			Not regulated by the U.S. Department of Transportation as a hazardous material for ground shipment; see Section 14 for full information.	
1	Slight	2	Health		
2	Moderate	0	Flammability		
3	High	0	Reactivity		
4	Severe				

SECTION 1: IDENTIFICATION	
<b>Product Name:</b> Herbivore® Herbicide <b>EPA Registration #:</b> 2749-528-1381 <b>Product ID/Unity #:</b> 1408206 <b>Common Name:</b> Sulfonylurea herbicide <b>Chemical Description:</b> Halosulfuron-methyl <b>Recommended Uses:</b> Agricultural Herbicide. See product label for complete list of uses and use sites. <b>Restrictions for Use:</b> See product label for information regarding restrictions on the use of this product.	<b>MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs)</b>  <b>Non-Emergency Business Inquiries: 1-855-494-6343</b> Mon – Fri 8am – 5pm (Central Standard Time)
<b>Manufactured For:</b> WINFIELD SOLUTIONS, LLC P. O. Box 64589 St. Paul, MN 55164-0589	
<b>FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL:</b> <b>CHEMTREC 1-800-424-9300 (24 hours)</b>	

SECTION 2: HAZARDS IDENTIFICATION	
<b>EMERGENCY OVERVIEW:</b> Light tan powder with a mild soapy odor. Harmful if swallowed, inhaled or absorbed through the skin. Causes eye irritation.	
<b>POTENTIAL HEALTH EFFECTS:</b> <b>Eyes:</b> Causes moderate eye irritation. <b>Skin:</b> Contact may cause irritation. Harmful if absorbed through the skin. <b>Inhalation:</b> Harmful if inhaled <b>Ingestion:</b> Harmful if swallowed. <b>Preexisting Conditions:</b> Preexisting respiratory and dermal conditions may be aggravated by exposure. <b>Chronic Health Effects:</b> None known	
<b>Carcinogenicity</b>	NTP: Not listed      IARC: Not listed      OSHA: Not listed
<b>OSHA HCS 2012 CLASSIFICATION:</b> Acute Oral Toxicity Category 4; Acute Dermal Toxicity Category 4; Acute Inhalation Toxicity Category 4; Eye Corrosion/Irritation Category 2A	
<b>SIGNAL WORD:</b> WARNING	
<b>HAZARD STATEMENTS:</b> Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Causes serious eye irritation.	
<b>Percent of product with unknown toxicity:</b> 25.0%	
<b>PRECAUTIONARY STATEMENTS:</b> <b>Prevention:</b> Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye and face protection. Wear protective gloves and protective clothing (See Section 8). Avoid breathing dust, mist, vapors, and spray. Use only outdoors or in a well-ventilated area.	

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**Response:** **If in eyes:** Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.  
**If Swallowed:** Immediately call a poison control center (1-877-424-7452) or doctor for treatment advice. Rinse mouth.  
**If inhaled:** Remove person to fresh air and keep comfortable for breathing. Call a poison control center (1-877-424-7452) or doctor for treatment advice if you feel unwell.  
**If on skin:** Wash with plenty of water. Immediately call a poison control center (1-877-424-7452) or doctor for treatment advice. Take off immediately all contaminated clothing and wash it before reuse.

**Storage:** See Section 7 for storage information.

**Disposal:** Dispose of contents/container in accordance with Federal, state and local regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS		
Ingredient	% (wt)	CAS Reg. #
Halosulfuron-methyl	75.0%	100784-20-1
*Ingredients not specifically listed are non-hazardous and/or are considered to be confidential business information under 29 CFR 1910.1200(i).		
See Section 8 for exposure limits.		

SECTION 4: FIRST AID MEASURES	
<b>Inhalation:</b>	Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation immediately.
<b>Ingestion:</b>	Seek medical attention or call a poison control center immediately for treatment advice. Do not induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
<b>Eyes:</b>	Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention immediately.
<b>Skin:</b>	Remove contaminated clothing and wash before re-using. Flush skin with water and then wash with soap and water. Seek medical attention immediately.
<b>Note to Physician:</b> Treat symptomatically.	

SECTION 5: FIRE FIGHTING MEASURES
<b>Suitable Extinguishing Media:</b> Water fog, water spray, foam, dry chemical, carbon dioxide (CO2)
<b>Special Fire Fighting Procedures:</b> Wear NIOSH/MSHA approved self-contained breathing apparatus and full bunker gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Avoid breathing vapors; keep upwind.
<b>Hazardous Combustion Products:</b> Hazardous gases and/or materials.
<b>Unusual Fire and Explosion Hazards:</b> None known

SECTION 6: ACCIDENTAL RELEASE MEASURES
<b>Personal Precautions:</b> Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.
<b>Environmental Precautions:</b> Keep spilled product from entering sewers or waterways.
<b>Methods for Containment:</b> Contain spilled product by diking area with sand or earth.
<b>Methods for Clean-up:</b> Avoid dust formation. Vacuum, scoop, or sweep up material and place in a container for disposal. Do not place spilled material back in original container.
<b>Other Information:</b> None known

**SECTION 7: HANDLING AND STORAGE**

**Handling:** RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the pesticide product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Ensure adequate ventilation. Immediately clean up spills that occur during handling. Keep containers closed when not in use. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

**Storage:** Store in secured, cool, dry areas designated specifically for pesticides, away from children, feed and food products and sources of heat. Keep containers closed when not in use. **See pesticide product label for additional storage information.**

**Minimum Storage Temperature:** Not determined

**Other Precautions:** Consult Federal, state and local laws and regulations pertaining to storage.

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

Exposure Guidelines			
Component:	OSHA PEL	ACGIH TLV	NIOSH REL
No components have established limits			
<b>NOTE TO END USERS:</b> PERSONAL PROTECTIVE EQUIPMENT (PPE) AND CLOTHING LISTED IN THIS SECTION IS FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD REFER TO THE PESTICIDE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT (PPE) AND CLOTHING.			
<b>Respiratory Protection:</b> Where airborne exposure to concentrations greater than the above listed exposure limits is likely, use a NIOSH approved respirator with cartridges/canisters approved for general particulates.			
<b>Engineering Controls:</b>	<b>Local Exhaust:</b> Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.		
<b>Protective Gloves:</b> Wear chemical resistant gloves to prevent skin exposure.			
<b>Eye Protection:</b> Wear chemical goggles or safety glasses and full-face shield. Contact lenses are not eye protective devices. An emergency eyewash or water supply should be readily accessible to the work area.			
<b>Other Protective Clothing or Equipment:</b> Wear long sleeve shirt, long pants and chemical resistant shoes plus socks to prevent skin exposure.			
<b>Work/Hygienic Practices:</b> Never eat, drink, nor use tobacco in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.			

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b>	Solid	<b>Specific Gravity (H<sub>2</sub>O=1):</b>	Not determined
<b>Vapor Pressure (mm Hg):</b>	Not determined	<b>Bulk Density (lbs/ft<sup>3</sup>):</b>	36.1 – 38.2 (typical)
<b>Vapor Density (Air=1):</b>	Not determined	<b>Melting Point/Freezing Point:</b>	168 - 171°C
<b>Solubility in Water (wt %):</b>	Insoluble	<b>Boiling Point/Range:</b>	Not determined
<b>Viscosity:</b>	Not determined	<b>pH (1% dispersion):</b>	Not determined
<b>Appearance and odor:</b>	Light tan powder with mild soapy odor	<b>Flash Point:</b>	Not determined

**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity:** None known

**Chemical Stability:** Product is stable at ambient temperature and pressure, under normal storage and handling conditions.

**Possibility of Hazardous Reactions:** Will not occur

**Conditions to Avoid:** Heat, flames and sparks. Avoid moisture.

**Incompatible Materials:** Reducing agents and acids.

**Hazardous Decomposition Products:** Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulfur Oxides and Hydrogen chlorides.

## SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Eye Effects: Irritating to eyes.  
 Skin Effects: May cause slight skin irritation; Estimated LD50 =1,100 mg/kg (rat)  
 Acute Inhalation Effects: Estimated LC50 = 1.5 mg/L (4 hr)(rat)  
 Acute Oral Effects: Estimated LD50 = 429 mg/kg (rat)  
 Specific Target Organ: None known  
 Toxicity:

CHRONIC TOXICITY

Chronic Effects: None known  
 Carcinogenicity: None known  
 Mutagenicity: None known  
 Teratogenicity: None known  
 Reproductive Toxicity: None known

POTENTIAL HEALTH EFFECTS:

Eyes: Causes moderate eye irritation.  
 Skin: Contact may cause irritation. Harmful if absorbed through the skin.  
 Inhalation: Harmful if inhaled  
 Ingestion: Harmful if swallowed.

## SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: Very toxic to aquatic life with long lasting effects.

ECOTOXICITY DATA:

Fish Acute and Prolonged Toxicity: Not available  
 Aquatic Invertebrate Acute Toxicity: Not available  
 Aquatic Plant Toxicity: Not available  
 Bird Acute and Prolonged Toxicity: Not available  
 Honeybee Toxicity: Not available

ENVIRONMENTAL EFFECTS:

Soil Absorption/Mobility: Not available  
 Persistence and degradability: Not available  
 Bioaccumulative Potential: Not available  
 Other adverse effects: Not available

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste:** Dispose of in accordance with applicable Federal, state and local laws and regulations.  
**Container:** Triple rinse and recycle the container or dispose of in accordance with Federal, state and local laws and regulations.  
**See pesticide product label for full instructions on disposal.**  
**RCRA Characteristics:** It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

## SECTION 14: TRANSPORT INFORMATION

**DOT:**  
**(Ground)** This product is not regulated by the U.S. DOT as a hazardous material for ground shipment.

**IMDG:**  
**(Sea)** Not determined

**IATA:**  
**(Air)** Not determined

**TDG:**  
**(Canada)** Not determined

## SECTION 15: REGULATORY INFORMATION

**TSCA Inventory:** This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.

**SARA Title III Information:**

**Section 302 - Extremely hazardous substances:** None listed

**Section 311/312 – Hazard Categories:** Immediate (Acute)

**Section 313 –** The following chemicals are subject to the reporting requirements of Section 313 of Title III, Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372:

None listed

**CERCLA -** This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):

None listed

**EPA Registration 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 as required on the pesticide label:

**CAUTION**

Causes moderate eye irritation.

Harmful if swallowed.

Avoid contact with eyes or clothing.

Wash thoroughly with soap and water after handling.

**California Proposition 65:** This product does not contain any chemicals known to the state of California to cause cancer and/or reproductive harm.

**U.S. State Worker and Community Right-To-Know (RTK) Information (CT, IL, MA, MN, NH, NJ, PA, RI):**

**Chemical Name**

**CAS #**

**State(s)**

None listed

**Canadian Domestic Substances List:** Not determined

**WHMIS Classification:** This product is not approved for use in Canada. WHMIS classification is not determined.

## SECTION 16: OTHER

**Disclaimer:** The information presented herein is based on available data from reliable sources and is correct to the best of WinField Solutions' knowledge. WinField Solutions, LLC makes no warranty, express nor implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

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**Sections Revised:** All