

NFPA HAZARD RATING				U.S. TRANSPORT SUMMARY	
0	Least				
1	Slight	1	Health		
2	Moderate	0	Flammability		
3	High	0	Reactivity		
4	Severe				

Not regulated by the U.S. DOT as a hazardous material for ground shipment. See Section 14 for Additional Information.

SECTION 1: IDENTIFICATION	
Product Name:	Herbivore® Herbicide
EPA Registration #:	2749-528-1381
Common Name:	Halosulfuron-methyl
Chemical Description:	1H-Pyrazole-4-Carboxylic Acid, 3-Chloro-5-[[[(4,6-Dimethoxy-2-Pyrimidinyl)Amino]Carbonyl]Amino]Sulfonyl]-1-Methyl-, Methyl Ester (9CI)
Recommended Uses:	Agriculture - Herbicide
Restrictions for Use:	See product label for any potential use restrictions on the use of this product.
Manufactured For: WINFIELD SOLUTIONS, LLC P. O. Box 64589 St. Paul, MN 55164-0589	MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs) Non-Emergency Business Inquiries: 1-855-494-6343 Mon – Fri 8am – 5pm (Central Standard Time)
FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hours)	

SECTION 2: HAZARDS IDENTIFICATION			
POTENTIAL HEALTH EFFECTS:			
Eyes: Irritating to eyes. Avoid contact with eyes.			
Skin: Harmful in contact with skin. Avoid contact with skin.			
Inhalation: Harmful by inhalation. Avoid breathing dust.			
Ingestion: Harmful if swallowed. Do not take internally.			
Preexisting Conditions: NA			
Chronic Health Effects: NA			
Carcinogenicity	NTP: Not listed	IARC: Not listed	OSHA: Not listed
OSHA HCS 2012 CLASSIFICATION:			
Acute toxicity - Oral : Category 4			
Acute toxicity - Dermal : Category 4			
Acute toxicity - Inhalation (Dusts/Mists) : Category 4			
Serious eye damage/eye irritation : Category 2			
Chronic aquatic toxicity : Category 1			
SIGNAL WORD: WARNING			
HAZARD STATEMENTS:			
Harmful if swallowed			
Harmful in contact with skin			
Harmful if inhaled			
Causes serious eye irritation			
Very toxic to aquatic life with long lasting effects			



PRECAUTIONARY STATEMENTS:	
Prevention:	Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area
Response:	Specific treatment (see supplemental first aid instructions on this label) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present. If eye irritation persists: Get medical advice/attention IF ON SKIN: Wash with plenty of soap and water Call a POISON CENTER or doctor/physician if you feel unwell Wash contaminated clothing before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth
Storage:	See Section 7 for Storage Information.
Disposal:	Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations. See pesticide label for further information on pesticide disposal.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS		
Ingredient	% (wt)	CAS Reg. #
Halosulfuron Methyl	75	100784-20-1
Other Ingredients	25	NA
*Ingredients not specifically listed are non-hazardous and are considered to be confidential business information under 29 CFR 1910.1200(j).		
See Section 8 for exposure limits.		

SECTION 4: FIRST AID MEASURES	
Inhalation:	Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician or poison control center immediately.
Ingestion:	Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.
Eyes:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician or poison control center immediately.
Skin:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. Call a physician or poison control center immediately.
Self-Protection of the First Aider:	Use personal protective equipment as required. Avoid contact with eyes, skin and clothing.
Note to Physician:	Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES	
Suitable Extinguishing Media:	Water spray. Carbon dioxide (CO2). Dry powder. Foam.
Special Fire Fighting Procedures:	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.
Hazardous Combustion Products:	Thermal decomposition or combustion may produce hazardous gases and/or materials.
Unusual Fire and Explosion Hazards:	Keep product and empty container away from heat and sources of ignition.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

Environmental Precautions: Local authorities should be advised if significant spillages cannot be contained. Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Should not be released into the environment.

Methods for Clean-up and Containment: Evacuate personnel to safe areas. Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Clean contaminated surface thoroughly.

Other Information: NA

SECTION 7: HANDLING AND STORAGE

Handling: Use only in an area equipped with a safety shower. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation. Do not breathe vapors/dust. Avoid contact with eyes, skin and clothing. Avoid repeated exposure. Wash hands before breaks and immediately after handling the product.

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Keep out of the reach of children. Protect from moisture.

Incompatible Materials: Reducing agents. Acids.

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: This product, as supplied, does not contain any hazardous materials with occupations exposure limits established by the region specific regulatory bodies.

Component:	OSHA PEL	ACGIH TLV	NIOSH REL
Halosulfuron Methyl (100784-20-1)	None	None	None
Other Ingredients	None	None	None

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.

Engineering Controls: **Local Exhaust:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.

Protective Gloves: Use suitable gloves.

Eye Protection: Tight sealing safety goggles.

Other Protective Clothing or Equipment: In case of insufficient ventilation, wear suitable respiratory equipment.

Work/Hygienic Practices: 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

Physical State:	Solid	Specific Gravity (H₂O=1):	No Information Available
Vapor Pressure (mm Hg):	No Information Available	Density (lbs/gallon):	4.82 – 5.10 lbs/gal
		Bulk Density:	36.1-38.2 lbs/ft ³
		Molecular Weight:	434.85 g/mol
Vapor Density (Air=1):	Not Available	Melting Point/Freezing Point:	168 - 171 °C (literary reference)
Solubility in Water (wt %):	Insoluble	Boiling Point/Range:	No Information Available
Viscosity:	No Information Available	pH:	No Data Available
Appearance and odor:	Light Tan Powder/Mild Soapy	Flash Point:	No Data Available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: NA

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: None under normal processing.

Conditions to Avoid: Heat, flames and sparks. Protect from moisture.

Incompatible Materials: Reducing agents. Acids.
Hazardous Decomposition Products: Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx). Sulfur oxides. Hydrogen chloride gas.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Eye Effects: Not determined.
Skin Effects: >5,000 mg/kg (rat).
Acute Inhalation Effects: >5.7 mg/L; 4H (rat).
Acute Oral Effects: Not determined.
Specific Target Organ Toxicity: Not determined.

CHRONIC TOXICITY

Chronic Effects: Avoid repeated exposure
 Not determined.
Carcinogenicity: Not determined.
Mutagenicity: No Information Available.
Teratogenicity: Not determined.
Reproductive Toxicity: No Information Available.

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY:

ECOTOXICITY DATA:

Fish Acute and Prolonged Toxicity: No Information Available.
Aquatic Invertebrate Acute Toxicity: No Information Available.
Aquatic Plant Toxicity: No Information Available.
Bird Acute and Prolonged Toxicity: No Information Available.
Honeybee Toxicity: No Information Available.

ENVIRONMENTAL EFFECTS:

Soil Absorption/Mobility: No Information Available.
Persistence and degradability: No Information Available.
Bioaccumulative Potential: No Information Available.
Other adverse effects: No Information 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) Not Regulated.

IMDG:
(Sea) Not Regulated.

IATA:
(Air) Not Regulated.

TDG:
(Canada) Not Regulated.

Section 16—Other

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