





Metriclude Safety Data Sheet

NFPA HAZARD RATING				U.S. TRANSPORT SUMMARY	
0	Least				 <p style="text-align: right;">This product is not regulated by the U.S. DOT as a hazardous material except in bulk quantities; see Section 14 for full information.</p>
1	Slight	2	Health		
2	Moderate	0	Flammability		
3	High	0	Reactivity		
4	Severe				

SECTION 1: IDENTIFICATION	
Product Name: Metriclude EPA Registration #: 1381-197-33270 Product ID/Unity #: Common Name: Metribuzin Chemical Description: Mutribuzin Recommended Uses: Agricultural herbicide. See product label for complete list of uses and use sites. Restrictions for Use: See product label for information regarding restrictions on the use of this product.	
Manufactured For: United Suppliers, Inc. P. O. Box 538 Eldora, IA 50627	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	
EMERGENCY OVERVIEW: Granules. Harmful if dust is inhaled. May form combustible dust.	
POTENTIAL HEALTH EFFECTS:	
Eyes: May cause mild mechanical eye irritation including redness and tearing. Skin: Contact may cause mild irritation. Inhalation: Harmful if inhaled. Ingestion: May be harmful if swallowed. Preexisting Conditions: Preexisting respiratory conditions may be aggravated by exposure. Chronic Health Effects: None known	
Carcinogenicity	NTP: Not listed IARC: Not listed OSHA: Not listed
OSHA HCS 2012 CLASSIFICATION: Acute Inhalation Toxicity Category 4; Combustible Dust	
SIGNAL WORD: WARNING	
HAZARD STATEMENTS:	
Harmful if inhaled. May form combustible dust concentrations in air.	
	
Percent of product with unknown toxicity: 10.05%	
PRECAUTIONARY STATEMENTS:	
Prevention:	Avoid breathing dust or spray. Use only outdoors or in a well-ventilated area.
Response:	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.
Storage:	See Section 7 for storage information.
Disposal:	See Section 13 for disposal information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS		
Ingredient	% (wt)	CAS Reg. #
Metribuzin	75.0%	21087-64-9
Kaolin	8.0 – 12.0%	1332-58-7
Sodium salt of sulfonated naphthalene formaldehyde condensate	5.0 – 10.0%	9084-06-4
Sodium aluminosilicate	<2.0%	1344-00-9
*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	
Inhalation:	Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention immediately.
Ingestion:	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.
Eyes:	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 if irritation persists.
Skin:	Remove contaminated clothing and wash before re-using. Flush skin with water and then wash with soap and water. Seek medical attention if irritation persists.

SECTION 5: FIRE FIGHTING MEASURES	
Suitable Extinguishing Media:	Water fog, water spray, foam, dry chemical, carbon dioxide (CO ₂)
Unsuitable Extinguishing Media:	Water jet
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:	Carbon dioxide (CO ₂), oxides of sulfur, amines, methyl mercaptans and sulfur oxides
Unusual Fire and Explosion Hazards:	May form combustible dust concentrations in air.

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:	Keep spilled product from entering sewers or waterways.
Methods for Containment:	Contain spilled product by diking area with sand or earth.
Methods for Clean-up:	Avoid dust formation. Vacuum, scoop or sweep up material and place in a container for disposal. If product is uncontaminated, spilled material may be applied at the rate recommended on the label. Never return spills to original containers for re-use. After removal of spilled product, flush contaminated area thoroughly with water.
Other Information:	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 cool, dry areas away from children, feed and food products and sources of heat. Store in original container with lid tightly closed. Do not store in direct sunlight. 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
Metribuzin	5 mg/m ³ (vacated)	5 mg/m ³	
Kaolin	15 mg/m ³ (total dust); 5 mg/m ³ (respirable dust)	2 mg/m ³ (respirable dust)	10 mg/m ³ (total dust); 5 mg/m ³ (respirable dust)
Sodium aluminosilicate	15 mg/m ³ (total dust); 5 mg/m ³ (respirable dust)	10 mg/m ³ (total dust)	
NOTE TO END USERS: 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.			
Respiratory Protection: 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.			
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: Wear chemical resistant gloves to prevent skin exposure. Eye Protection: 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. Other Protective Clothing or Equipment: Wear long sleeve shirt, long pants and chemical resistant shoes plus socks to prevent skin exposure.			
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):	Not determined
Vapor Pressure (mm Hg):	Not determined	Density (lbs/gallon):	Not applicable
Vapor Density (Air=1):	Not determined	Melting Point/Freezing Point:	Not determined
Solubility in Water (wt %):	Not determined	Boiling Point/Range:	Not determined
Viscosity:	Not determined	pH (1% dispersion):	Not determined
Appearance and odor:	Granules	Flash Point:	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: Avoid excessive heat	
Incompatible Materials: Ketones, aldehydes, strong oxidizing agents,	
Hazardous Decomposition Products: Carbon dioxide (CO ₂), oxides of sulfur, amines, methyl mercaptans and sulfur oxides	

SECTION 11: TOXICOLOGICAL INFORMATION	
ACUTE TOXICITY	
Eye Effects:	Based upon component data, this product is expected to cause only mild eye irritation.
Skin Effects:	Not estimated to cause skin irritation. Estimated LD50 >5,000 mg/kg.
Acute Inhalation Effects:	Estimated LC50 >2.0 mg/L
Acute Oral Effects:	Estimated LD50 = 2,330 mg/kg
Specific Target Organ Toxicity:	None known
CHRONIC TOXICITY	
Chronic Effects:	None known
Carcinogenicity:	None known
Mutagenicity:	None known
Teratogenicity:	None known
Reproductive Toxicity:	None known
POTENTIAL HEALTH EFFECTS:	
Eyes:	May cause mild to moderate eye irritation including redness and tearing.
Skin:	Contact may cause mild irritation.
Inhalation:	Harmful if inhaled.
Ingestion:	May be harmful if swallowed.

SECTION 12: ECOLOGICAL INFORMATION	
ENVIRONMENTAL SUMMARY: Not determined	
ECOTOXICITY DATA:	
Fish Acute and Prolonged Toxicity:	Estimated 96hr LC50 = 1,111 mg/L
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)	Due to particle size, the inhalation value is not considered in the classification. When shipped domestically by highway in non-bulk containers this product can be shipped as not regulated. When shipped in bulk by vessel use the following description: UN3077, Environmentally hazardous substances, solid, n.o.s. (Metribuzin), 9, PGIII, Marine Pollutant
IMDG: (Sea)	UN3077, Environmentally hazardous substances, solid, n.o.s. (Metribuzin), 9, PGIII, Marine Pollutant
IATA: (Air)	UN3077, Environmentally hazardous substances, solid, n.o.s. (Metribuzin), 9, PGIII, Marine Pollutant
TDG: (Canada)	Not determined

SECTION 15: REGULATORY INFORMATION											
<p>TSCA Inventory: This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.</p> <p>SARA Title III Information:</p> <p>Section 302 - Extremely hazardous substances: None listed</p> <p>Section 311/312 – Hazard Categories: Immediate (Acute)</p> <p>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:</p> <p>Metribuzin</p>											
<p>CERCLA - This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):</p> <p>None listed</p>											
<p>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:</p> <p>CAUTION Harmful if swallowed or absorbed through skin. Causes moderate eye irritation.</p>											
<p>California Proposition 65: This product does not contain any chemicals known to the state of California to cause cancer and/or reproductive harm.</p> <p>U.S. State Worker and Community Right-To-Know (RTK) Information (CT, IL, MA, MN, NH, NJ, PA, RI):</p> <table border="0"> <thead> <tr> <th>Chemical Name</th> <th>CAS #</th> <th>State(s)</th> </tr> </thead> <tbody> <tr> <td>Metribuzin</td> <td>21087-64-9</td> <td>MA, NJ, PA</td> </tr> <tr> <td>Kaolin</td> <td>1332-58-7</td> <td>PA</td> </tr> </tbody> </table> <p>Canadian Domestic Substances List: Not determined</p>			Chemical Name	CAS #	State(s)	Metribuzin	21087-64-9	MA, NJ, PA	Kaolin	1332-58-7	PA
Chemical Name	CAS #	State(s)									
Metribuzin	21087-64-9	MA, NJ, PA									
Kaolin	1332-58-7	PA									
<p>WHMIS Classification: This product is not approved for use in Canada. WHMIS classification is not determined.</p>											

SECTION 16: OTHER	
<p>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.</p>	
<p>Revision Date: January 29, 2016</p> <p>Sections Revised:</p>	<p>Supersedes document dated:</p>