

# MATERIAL SAFETY DATA SHEET

# METRIBUZIN 75

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### FORMULATED FOR:

LOVELAND PRODUCTS, INC.  
P.O. Box 1286 • Greeley, CO 80632-1286

**24-Hour Emergency Phone:** 1-800-424-9300  
**Medical Emergencies:** 1-800-301-7976  
**U.S. Coast Guard National Response Center:** 1-800-424-8802

**PRODUCT NAME:** METRIBUZIN 75  
**CHEMICAL NAME:** Metribuzin: 4-Amino-6-(1,1-dimethylethyl)-3-(methylthio)-1,2,4-triazin-5 (4H)-one  
**CHEMICAL FAMILY:** Triazinone Herbicide  
**EPA REG. NO.:** 34704-876  
**MSDS Number:** 000876-08-LPI

**MSDS Revisions:** Sections 7, 8, 13, and 15 **Date of Issue:** 06/12/08

**Supersedes:** 11/03/05

## 2. HAZARDS IDENTIFICATION SUMMARY

**KEEP OUT OF REACH OF CHILDREN – CAUTION –** May be harmful if swallowed or absorbed through skin. Causes moderate eye irritation.

This product is a brown granule with faint odor. Primary routes of entry are skin contact, eye contact, and inhalation.

**NOTES TO PHYSICIAN:** Treat patient symptomatically.

## 3. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
Metribuzin	75.00	21087-64-9	5 mg/m <sup>3</sup>
Other Ingredients, including Total crystalline silica	25.00	14808-60-7	0.05 mg/m <sup>3</sup>

## 4. FIRST AID MEASURES

**If swallowed:** Call a poison control center or doctor immediately for treatment advice. Have affected person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15 to 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.

**FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-301-7976.** Have the product label or container with you when calling a poison control center or doctor, or going for treatment.

## 5. FIRE FIGHTING MEASURES

**FLASH POINT (°F/Test Method):** Does not flash.  
**FLAMMABLE LIMITS (LFL & UFL):** Not applicable.  
**EXTINGUISHING MEDIA:** Water, dry chemical.  
**HAZARDOUS COMBUSTION PRODUCTS:** May thermally decompose under fire conditions emitting CO<sub>2</sub>, SO<sub>2</sub>, methyl mercaptan, and amines.  
**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus with full protective clothing. Evacuate area and fight fire from a safe distance. Minimize the amount of water used for firefighting. Equipment should be completely decontaminated after use.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** If water is used to fight fire or cool containers, contain runoff, using dikes to prevent contamination of water supplies. Avoid using heavy water streams. Tests on the active ingredient indicate that an explosive mixture can develop in dusty conditions, any devices that could cause sparking should be turned off until the dust dissipates.

## 6. ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Isolate area and keep unauthorized people away. Do not walk through spilled material. Avoid breathing dust and skin contact. Avoid generating dust, a fine water spray mist, plastic film cover, or floor sweeping compound may be used if necessary. Use recommended safety equipment when sweeping up spilled material. Place in a covered container for reuse or disposal. Scrub spill area with soap and water. Rinse with water. Use dry absorbent material such as clay granules to absorb and collect wash solution for proper disposal in accordance with all Federal, State and Local regulations. Contaminated soil may have to be removed and disposed of.

**CAUTION:** Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

**7. HANDLING AND STORAGE**

**HANDLING:** Do not breathe dusts. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**STORAGE:** Store in a cool dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Handle and open container in a manner as to prevent spillage. Do not contaminate water, food or feed by storage or disposal.

**Personal Protective Equipment (PPE): Applicators and other handlers must wear:** long sleeved shirt and long pants, chemical resistant gloves made of any waterproof material, and shoes plus socks. Follow manufacturer's instructions for cleaning and maintaining PPE. If no instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent material that have been drenched or heavily contaminated with this product's concentrate. DO NOT reuse them.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets with requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS. Control airborne concentrations below the exposure guidelines. Local exhaust may be necessary when used in a confined area. Eye wash facility and safety shower should be available.

**RESPIRATORY PROTECTION:** Under normal handling conditions no respiratory protection is needed. However, if needed to prevent respiratory irritation, NIOSH-approved particulate respirator may be used.

**EYE PROTECTION:** Chemical goggles or shielded safety glasses.

**SKIN PROTECTION:** Wear protective clothing: long-sleeved shirts and pants, shoes plus socks. Wear waterproof gloves.

	OSHA PEL 8 hr TWA	ACGIH TLV-TWA
Nuisance particulates	15 mg/m <sup>3</sup> (total dust)	Not listed

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE AND ODOR:** Brown granules with faint odor

**SPECIFIC GRAVITY (Water = 1):** 0.429 – 0.525 g/ml

**VAPOR PRESSURE:**  $1.2 \times 10^{-7}$  torr (based on technical data)

**PERCENT VOLATILE (by volume):** Not established

**BULK DENSITY:** 26.78 – 32.77 lbs/ft<sup>3</sup>

**BOILING POINT:** Not applicable

**EVAPORATION RATE:** Not established

**SOLUBILITY:** Disperses

**pH:** no data available

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

**10. STABILITY AND REACTIVITY**

**STABILITY:** Stable

**CONDITIONS TO AVOID:** Sustained temperatures above 100°F / 37.78°C; highly alkaline conditions for extended periods of time.

**INCOMPATIBILITY:** Strong caustics. May react with ketones and aldehydes.

**HAZARDOUS DECOMPOSITION PRODUCTS:** May thermally decompose under fire conditions emitting CO<sub>2</sub>, SO<sub>2</sub>, methyl mercaptan, and amines.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

**Acute Oral LD<sub>50</sub> (male rat):** 2365 mg/kg

**Eye Irritation (rabbit):** Moderate eye irritant

**Inhalation LC<sub>50</sub> (rat):** >4.84 mg/L (4 hr).

**Carcinogenic Potential:** None listed in OSHA, NTP, ACGIH or IARC.

**Acute Dermal LD<sub>50</sub> (rabbit):** >2000 mg/kg

**Skin Irritation (rabbit):** Slight irritant

**Skin Sensitization (guinea pig):** Not a sensitizer

**12. ECOLOGICAL INFORMATION**

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 apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment wash water or rinsate. Metribuzin can leach through soil and can contaminate groundwater which may be used for drinking water. Metribuzin has been found in groundwater as a result of agricultural use. Refer to product label for additional Ground Water Advisories.

**13. DISPOSAL CONSIDERATIONS**

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.  
**CONTAINER DISPOSAL: Non-refillable container.** Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact The Agricultural Container Recycling Council (ACRC) at [www.acrecycle.org](http://www.acrecycle.org). Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **For packages up to 5 gallons: Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**14. TRANSPORT INFORMATION**

**DOT Shipping Description:** NOT REGULATED BY USDOT FOR SURFACE TRANSPORTATION  
**U.S. Surface Freight Classification:** COMPOUND, TREE OR WEED KILLING, NOI (NMFC 50320, SUB 2: CLASS: 60)

Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

**15. REGULATORY INFORMATION**

<b>NFPA &amp; HMIS Hazard Ratings:</b>		<b>NFPA</b>		<b>HMIS</b>		
	2	Health	0	Least	2	Health
	1	Flammability	1	Slight	1	Flammability
	1	Instability	2	Moderate	1	Reactivity
			3	High	H	PPE
			4	Severe		

**SARA Hazard Notification/Reporting**  
**SARA Title III Hazard Category:** Immediate Y Fire N Sudden Release of Pressure N  
 Delayed N Reactive N

**Reportable Quantity (RQ) under U.S. CERCLA:** Not listed  
**SARA, Title III, Section 313:** Metribuzin (CAS: 21087-64-9) 75.0%  
**RCRA Waste Code:** Not listed  
**CA Proposition 65:** Not listed

**16. OTHER INFORMATION**

**MSDS STATUS:** Sections 7, 8, 13, and 15 revised  
**PREPARED BY:** Registrations and Regulatory Affairs **REVIEWED BY:** Environmental/ Regulatory Services

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