

IN CASE OF EMERGENCY DUE TO A MAJOR SPILL, FIRE OR POISONING INVOLVING THIS PRODUCT CALL DAY OR NIGHT, 1-800-

561-8273 or CHEMTREC 1-800-424-9300

## 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

### MANUFACTURED FOR:

LOVELAND PRODUCTS CANADA, INC.  
789 Donnybrook Drive • Dorchester, Ontario N0L 1G5

**24-Hour Emergency Phone:** 1-800-561-8273  
**Additional Emergency Phone (Canutec):** 1-613-996-6666 (Collect)

**CHEMICAL IDENTITY:** Ferbam; Ferric dimethyldithiocarbamate

**PRODUCT USE:** Fungicide – Group M

**PCP REG. NO.:** 20136

**SDS Number:** 20136-15-LPI

**SDS Revisions:** Section 1

**Date of Issue:** 09/12/15

**Supersedes:** 09/12/12

## 2. HAZARDS IDENTIFICATION SUMMARY

**KEEP OUT OF REACH OF CHILDREN – CAUTION** - Harmful if inhaled or absorbed through the skin. Direct contact with eyes or skin may cause irritation. May cause allergic skin reaction in some individuals. Inhalation of dust may cause irritation of mucous membranes, respiratory irritation, congestion and lethargy. Ingestion may cause systemic poisoning symptoms of nausea, vomiting, dizziness, kidney damage, and coma. Wash thoroughly with soap and water after handling, and before eating, drinking or smoking. Avoid breathing dusts, vapours, or spray mist. Avoid contact with eyes, skin or clothing. Primary routes of entry are Inhalation, eye contact and skin contact. Note: consumption of alcoholic beverages increases the toxic effects of Ferbam

This product is black, granular solid with no odour.

## 3. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
Ferbam	76.00	14484-64-1	10 mg/m <sup>3</sup>

## 4. FIRST AID MEASURES

<b>If in eyes:</b>	Hold eyes 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 centre or doctor for treatment advice.
<b>If on skin or clothing:</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for further treatment advice.
<b>If inhaled:</b>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control centre or doctor for further treatment advice.
<b>If swallowed:</b>	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 a poison control centre or doctor. Do not give anything by mouth to an unconscious person.
<b>NOTE TO PHYSICIAN:</b>	Probable mucosal damage may contraindicate the use of gastric lavage.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: **1-800-561-8273**. Have the product label or container with you when calling a poison control centre or doctor, or going for treatment.

## 5. FIRE FIGHTING MEASURES

<b>FLASH POINT (°F/Test Method):</b>	None
<b>FLAMMABLE LIMITS (LFL &amp; UFL):</b>	Not established
<b>EXTINGUISHING MEDIA:</b>	Use medium appropriate to surrounding fire. Dry chemical, carbon dioxide, foam, water spray or fog.
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	Thermal decomposition may generate toxic and/or hazardous gases.
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	Evacuate area of non-essential personnel. Wear self-contained breathing apparatus and full protective gear. Fight fire from upwind
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS:</b>	High concentrations of this product suspended in the air may present an explosion hazard. If water is used to fight fire or cool containers, dike to prevent runoff and contamination of municipal sewers and waterways. This product is toxic to fish.

## 6. ACCIDENTAL RELEASE MEASURES

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

Wear appropriate protective equipment as described in Section 8 to prevent eye and skin contact and appropriate respirator to prevent overexposure. Avoid contact, isolate area and keep animals and unprotected persons away from spill area. If dry material, cover to prevent further dispersal. Sweep up spill and transfer to labeled, approved chemical containers for disposal or rework. Keep dusting to a minimum. If liquid, dike surrounding area with any available absorbent, i.e. sand, cat litter, or commercial absorbent. Sweep up and place in labeled containers for disposal. Check local or provincial regulations for proper disposal. Flush the area with water to remove any residue.

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

**7. HANDLING AND STORAGE**

**HANDLING:** 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 after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**STORAGE:** Not for use or storage in or around the house. Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, fold and roll back bags, clamp and close tightly. Do not contaminate water, food or feed by storage and disposal.

**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.

**RESPIRATORY PROTECTION:** Not normally required. If vapors or dusts exceed acceptable levels, wear a NIOSH approved pesticide respirator.

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

**SKIN PROTECTION:** Wear protective clothing: long-sleeved shirts and pants, shoes with socks. Wear rubber or chemical-resistant gloves.

	OSHA PEL 8 hr TWA	ACGIH TLV-TWA
Ferbam	15 mg/m <sup>3</sup> (total dust)	10 mg/m <sup>3</sup>

**PERSONAL PROTECTIVE EQUIPMENT (PPE): Applicators and other handlers must wear:** rubber or other chemical-resistant, water proof gloves, long-sleeved shirt and long pants, protective eyewear, and chemical resistant headgear for overhead exposure. In addition, a properly-fitted NIOSH-approved dust/mist filtering respirator with MSHA/NIOSH approval prefix TC-21C or a NIOSH approved respirator with any N, R, P, or HE filter must be worn by applicators, and handlers when performing any operation where exposure to Ferbam is likely. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE AND ODOUR:</b> Black granular solid with no odor	<b>BULK DENSITY:</b> 529.9 kg/m <sup>3</sup>	<b>SOLUBILITY:</b> Negligible
<b>SPECIFIC GRAVITY (Water = 1):</b> 0.53 g/ml	<b>BOILING POINT:</b> Decomposes above 180°C / 356°F	<b>pH:</b> Not established
<b>VAPOUR PRESSURE:</b> Not applicable	<b>EVAPORATION RATE:</b> Not applicable	
<b>PERCENT VOLATILE (by volume):</b> Not applicable		

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:** Excessive heat and moisture.

**INCOMPATIBILITY:** Oxidizers.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may generate toxic and/or hazardous gases.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

<b>Acute Oral LD<sub>50</sub> (male rat):</b> >5000 mg/kg	<b>Acute Dermal LD<sub>50</sub> (rabbit):</b> >4000 mg/kg
<b>Eye Irritation (rabbit):</b> May cause irritation and injury lasting several days	<b>Skin Irritation (rabbit):</b> May cause irritation
<b>Inhalation LC<sub>50</sub> (male rat):</b> 0.4 mg/L (4H) (Technical)	<b>Skin Sensitization (Guinea Pig):</b> Not a sensitizer

**Carcinogenic Potential:** OSHA: not listed; NTP: no human data found; IARC: Group 3 (Unclassifiable as to Carcinogenicity in Humans); ACGIH: TLV-A4 (Not Classifiable as a Human Carcinogen).

**12. ECOLOGICAL INFORMATION**

This product is toxic to fish. 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 where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water when cleaning equipment or disposing of equipment wash waters or rinsate.

**13. DISPOSAL CONSIDERATIONS**

Do not reuse containers for any purpose. Completely empty bag into application equipment. Container is to be disposed of at a container collection site. Contact your local dealer/distributor for the location of the nearest collection site. Before taking container to the collection site: make the empty container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Do not contaminate water, food, or feed by storage or disposal.

**14. TRANSPORT INFORMATION**

**DOT/TDG Shipping Description:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (FERBAM) 9, UN3077, III ERG GUIDE 171  
**U.S. Surface Freight Classification:** INSECTICIDES OR FUNGICIDES, INSECT OR ANIMAL REPELLENTS; NOI; OTHER THAN POISON (NMFC 102120; CLASS: 60)  
**IMDG Shipping Description:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (FERBAM), 9, UN3077, III MARINE POLLUTANT

Consult appropriate ICAO/IATA regulations for shipment requirements in the Air shipping mode.

**15. REGULATORY INFORMATION**

NFPA & HMIS Hazard Ratings:		NFPA		HMIS	
2	Health	0	Least	2	Health
1	Flammability	1	Slight	1	Flammability
0	Instability	2	Moderate	0	Reactivity
		3	High	H	PPE
		4	Severe		

**SARA Hazard Notification/Reporting**

<b>SARA Title III Hazard Category:</b>	Immediate	<u>Y</u>	Fire	<u>N</u>	Sudden Release of Pressure	<u>N</u>
	Delayed	<u>N</u>	Reactive	<u>N</u>		

**Reportable Quantity (RQ) under U.S. CERCLA:** Not listed  
**SARA, Title III, Section 313:** Ferbam (CAS: 14484-64-1) 76.0%  
**RCRA Waste Code:** Not listed  
**CA Proposition 65:** Not applicable

**16. OTHER INFORMATION**

**SDS STATUS:** Section 1 revised

**PREPARED BY:** Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental Health and Safety

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