



Effective Date: 7/5/01

Material Safety Data Sheet

MSDS No: 14761

SECTION 1. PRODUCT IDENTIFICATION

Trade Name: LIBREL MN

Chemical Family: High stability, soluble metal complex.

Health	0
Flammability	1
Reactivity	0
Protective Equipment	X

HMIS RATING

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

O S H A	CAS No.	CHEMICAL IDENTITY	EXPOSURE LIMITS					CARCINOGEN STATUS		
			ACGIH		OSHA		MFR.	IARC	NTP	OSHA
			TWA	STEL	PEL	STEL				
	15375-84-5	MANGANESE EDTA, SODIUM SALT	NE	NE	NE	NE	NE	NR	NR	NR

NE = Not Established NR = Not Reviewed

SECTION 3. HAZARDS IDENTIFICATION

Emergency Overview:

**Description:** Light pink dry flowable granules.

**Statement of Hazards:** NA (not a health hazard as defined by OSHA).

**Precautionary Measures:** Follow good manufacturing practices and avoid exposure to product.

**Primary Route(s) of Entry:** Unspecified.

**Signs and Symptoms of Exposure:** Prolonged or repeated contact with the eyes and skin may cause irritation.

**Carcinogenicity:** Product not listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.

**Target Organ(s):** NA (No adequate data regarding carcinogenicity)

#### SECTION 4. FIRST AID MEASURES

**Ingestion:** Consult a physician. Never give anything by mouth to an unconscious person.

**Skin:** Remove contaminated clothing and laundry before reuse. Wash affected area with soap and water.

**Inhalation:** Remove to fresh air.

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

#### SECTION 5. FIRE FIGHTING MEASURES

**Flash Point:** Not Applicable  
**Autoignition:** Not Evaluated

**Sensitivity to Mechanical Impact:** None

**Sensitivity to Static Discharge:** Not Evaluated.

**Fire Fighting Instructions:** May burn or smoulder in fire.

**Fire Fighting Extinguishing Media:** Water spray or fog. Product may smoulder if ignited.

**Fire Fighting Equipment:** Full protective equipment including self contained breathing apparatus is recommended.

**Fire and Explosion Hazards:** Combustion products may be toxic or irritating.

**Extinguishing Media to Avoid:** Do not use water jet.

**Hazardous Combustion Products:** Oxides of carbon and nitrogen. Heavy metal fumes.

**Dust Explosivity:** Not evaluated.

**Emergency Response Guidebook Information:** No ERG # indicated.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

**Accidental Release Measures:** Sweep up and collect dry product. Then water wash area to waste treatment.

#### SECTION 7. HANDLING AND STORAGE

**Precautions:** Avoid inhalation of dust. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

**Storage Information:** Store in cool dry location.

#### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Skin Protection:** Impervious gloves are recommended.

Effective Date: 7/5/01

**Respiratory Protection:** Use NIOSH approved dust respirator as required to control exposure. Follow ANSI Z88.2.

**Eye Protection:** Goggles (ANSI Z87.1 std; safety glasses alone do not protect from dust).

**Engineering Controls:** Provide mechanical ventilation to prevent dust concentrations, and to reduce potential exposure.

**Exposure Guidelines:** No exposure guidelines established. Avoid all unnecessary exposure.

**Additional Information:** Provide eyewash station(s). Select additional protective equipment (eg apron, face shield, etc.), depending on conditions of use.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical Form:</b>	Granules
<b>Color:</b>	Light pink
<b>Odor:</b>	Slight
<b>Odor Threshold:</b>	Not Applicable
<b>Physical State:</b>	Solid
<b>Solubility in Water:</b>	Soluble
<b>Vapor Pressure:</b>	Not Evaluated
<b>Specific Gravity:</b>	0.7
<b>Boiling Point:</b>	Not Applicable
<b>Melting Point:</b>	Not Applicable
<b>Freezing Point:</b>	Not Applicable
<b>Decomposition Temperature:</b>	Not Evaluated
<b>Evaporation Rate:</b>	Not Applicable
<b>Vapor Density:</b>	Not Applicable
<b>VOC:</b>	Not Evaluated
<b>pH:</b>	5 - 9 For 2 % solution.
<b>Coefficient of water/oil:</b>	Not Evaluated

**Percent Volatile:**  
None expected above trace levels.

**Additional Information:**  
None

## SECTION 10. STABILITY AND REACTIVITY

**Conditions to Avoid:** Avoid wet and humid conditions. Avoid temperature extremes.

**Stability:** Stable.

**Hazardous Polymerization:** Will not occur.

**Hazardous Decomposition Products:** No decomposition expected under normal storage conditions.

**Incompatibility:** Strong oxidants and alkalines.

## SECTION 11. TOXICOLOGICAL INFORMATION

**Acute Oral Toxicity:**  
Not established for product.

Effective Date: 7/5/01

**Acute Dermal Toxicity:**

Not established for product.

**Acute Inhalation Toxicity:**

Not established for product.

**Carcinogenicity:**

Product not considered a carcinogen under OSHA. It contains &lt; 0.1% Nitrilotriacetic acid. Nitrilotriacetic acid is listed by IARC as a possible human carcinogen.

**Toxicologically Synergistic Products:**

None known.

**SECTION 12. ECOLOGICAL INFORMATION****Ecological Information:**

No data available.

**SECTION 13. DISPOSAL CONSIDERATIONS****RCRA Hazard Class:** This product, when unadulterated, is not a RCRA regulated hazardous waste.**Waste Disposal Method:** Disposal must be arranged in accordance with local, state and federal regulations. Care must be taken to prevent environmental contamination from the disposal of material, residues and containers.**SECTION 14. TRANSPORT INFORMATION****DOT:**

Proper Shipping Name:	NOT A DOT/IMO HAZARDOUS MATERIAL
IATA:	
Proper Shipping Name:	NOT HAZARDOUS FOR TRANSPORT BY AIR
IMO:	
Proper Shipping Name:	NOT A DOT/IMO HAZARDOUS MATERIAL

**SECTION 15. REGULATORY INFORMATION****US Federal Regulations:****Chemical Weapons Convention (CWC):** This product does not contain any chemicals listed under the Chemical Weapons Convention Schedules of Chemicals.**Clean Air Act -Hazardous Air Pollutants (HAP):** This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).**Clean Air Act - Ozone Depleting Substances (ODS):** This product neither contains, nor was manufactured with, a Class I or Class II ozone depleting substance (ODS), as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A+B).**Clean Water Act - Priority Pollutants (PP):** This product does not contain any priority pollutants listed under the U.S. Clean Water Act Section 307 (2)(1) Priority Pollutant List (40 CFR 401.15).**Occupational Safety and Health Act (OSHA):** This product is not considered to be a hazardous chemical under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Effective Date: 7/5/01

**Resource Conservation and Recovery Act (RCRA):** This product is not considered to be a P or U listed hazardous waste under RCRA (40 CFR 261).

**SARA Title III: Section 302 - Extremely Hazardous Substances (EHS):** This product does not contain any chemicals regulated under Section 302 (40 CFR 355) as extremely hazardous substances.

**SARA Title III: Section 304 - CERCLA:** This product does not contain any chemicals regulated under Section 304 (40 CFR 302) as hazardous chemicals for emergency release notification ("CERCLA" List).

**SARA Title III: Section 311/312 - Hazard Communication Standard (HCS):** This product is not regulated under Section 311-312 (40 CFR 370).

**SARA Title III: Section 313 Toxic Chemical List (TCL):** This product contains a toxic chemical(s) for routine annual toxic chemical release reporting under section 313 (40 CFR 372). This information must be included in all MSDS's copied or distributed for this material.

Chemical Name: MANGANESE EDTA, SODIUM SALT

CASRN: 15375-84-5

Percent in Composition: 92 % by wt

Comment:

**TSCA Section 5(e) - Consent Order / SNUR:** This product is not subject to a Section 5(e) Consent Order or Significant New Use Rule (SNUR).

**TSCA Section 8(b) - Inventory Status:** All chemical(s) comprising this product are either exempt or listed on the TSCA inventory.

**TSCA Section 12(b) - Export Notification:** This product does not contain any chemical(s) that are subject to a Section 12(b) export notification.

### **International Regulations:**

**Canadian Inventory Status:** This product contains only chemicals that are currently listed on the Canadian Domestic Substance List.

### **State Regulations:**

**California Proposition 65:** The following is required composition information. This product contains the following chemical(s) which are currently listed on the California list of Known Carcinogens and Reproductive Toxins:

Chemical Name: NITRILOTRIACETIC ACID

CASRN: 139-13-9

Percent in Composition: < 0.10 % by wt

**Massachusetts Right-to-Know:** The following is required composition information:

Chemical Name: NITRILOTRIACETIC ACID (Impurity)

CASRN: 139-13-9

Percent in Composition: < 0.1 % by wt

**New Jersey Right-to-Know:** The following is required composition information:

Chemical Name: NITRILOTRIACETIC ACID (Impurity)

CASRN: 139-13-9

Chemical Name: MANGANESE EDTA, SODIUM SALT

CASRN: 15375-84-5

Effective Date: 7/5/01

Chemical Name: Water  
CASRN: 7732-18-5Chemical Name: impurity not yet identified (Impurity)  
CASRN: impurity**Pennsylvania Right-to-Know:** The following is required composition information:Chemical Name: MANGANESE EDTA, SODIUM SALT  
CASRN: 15375-84-5  
Comment: Not on Pennsylvania Hazardous Substance ListChemical Name: Water  
CASRN: 7732-18-5  
Comment: Not on Pennsylvania Hazardous Substance ListChemical Name: impurity not yet identified (Impurity)  
CASRN: impurity  
Comment: Not on Pennsylvania Hazardous Substance ListChemical Name: NITRILOTRIACETIC ACID (Impurity)  
CASRN: 139-13-9  
Comment: Special Hazardous Substance**SECTION 16. OTHER INFORMATION**

<b>MSDS No:</b>	14761
<b>Reason Issued:</b>	New format
<b>Prepared By:</b>	Leon Knight
<b>Approved By:</b>	
<b>Supersedes Date:</b>	11/21/00

**Sections Modified:** Section 16.

**Disclaimer:** The following supercedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict liability, tort or contract arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled or lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.