

## SAFETY DATA SHEET

DATE PREPARED: 03/24/13

CURRENT AS OF: 3/14/16

### SECTION 1: PRODUCT / SUPPLIER IDENTIFICATION

PRODUCT NAME: Morral 6% Manganese

PRODUCT USE: Fertilizer micronutrient

MANUFACTURED FOR: Morral Companies  
132 Postle  
Morral, Ohio, USA 43337

FOR INFORMATION: (800) 554-3981

### SECTION 2: HAZARDS IDENTIFICATION

HAZARD SYMBOLS / STATEMENTS:



**WARNING**      **MAY BE HARMFUL IF SWALLOWED**  
**MAY CAUSE MILD SKIN IRRITATION**  
**MAY CAUSE EYE IRRITATION**  
**MAY CAUSE RESPIRATORY IRRITATION**

HAZARD CLASSIFICATIONS:

<u>HAZARD CLASSIFICATIONS:</u>	<u>CATEGORY</u>	<u>INTERPRETATION</u>
<i>ACUTE TOXICITY</i>	5	Low
<i>SKIN IRRITATION</i>	3	Skin Irritation Possible
<i>EYE IRRITATION</i>	2B	Eye Irritation Possible
<i>TARGET ORGAN SYSTEMIC TOXICITY</i>	3	Transient Respiratory Irritation Possible

PRECAUTIONARY STATEMENTS:

- *CALL A POISON CENTER / PHYSICIAN IF UNWELL*
- *IF SKIN IRRITATION OCCURS, GET MEDICAL ADVICE*
- *IF IN EYES, RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES – REMOVE CONTACT LENSES*
- *IF EYE IRRITATION PERSISTS, GET MEDICAL ADVICE*
- *WASH HANDS AFTER HANDLING*
- *USE ONLY OUTDOORS OR IN WELL VENTILATED AREAS*
- *AVOID BREATHING MIST / SPRAY*
- *IF INHALED, REMOVE TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING*
- *STORE CONTAINER TIGHTLY CLOSED*
- *DISPOSE OF CONTENTS / CONTAINER IN ACCORDANCE WITH NATIONAL / REGIONAL / LOCAL REGULATIONS*

### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<u>CHEMICAL IDENTITY</u>	<u>SYNONYM</u>	<u>CAS #</u>	<u>CONCENTRATION (%)</u>
Manganese EDTA, dipotassium salt solution		68015-77-0	100.0

## MORRAL 6% MANGANESE

### SECTION 4: FIRST AID MEASURES

IF INHALED:	Move victim to fresh air. Seek medical attention if irritation persists.
IF ON SKIN:	Wash affected areas with soap and water. Seek medical attention if irritation persists. Wash contaminated clothing before re-use.
IF IN THE EYES:	Immediately flush with water for at least 20 minutes. Seek medical attention if irritation persists.
IF SWALLOWED:	If victim is alert and not convulsing, give one glass of water to dilute material and induce vomiting. Seek immediate medical attention.
SPECIAL TREATMENT:	None known
HEALTH HAZARDS:	See Section 11

### SECTION 5: FIREFIGHTING MEASURES

EXTINGUISHING MEDIA:	Use media suitable for surrounding fire. No special media required.
SPECIFIC FIRE HAZARDS:	Decomposition products may be toxic.
SPECIAL FIREFIGHTING PROCEDURES:	Wear full protective clothing and positive-pressure self-contained breathing apparatus.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL / RELEASE PROCEDURES:	Collect spilled product and store to re-use. Contaminated product and/or environmental media should be recovered and disposed of properly.
ENVIRONMENTAL PRECAUTIONS:	Prevent spilled material from entering storm drains or water bodies.
PROTECTIVE EQUIPMENT:	See Section 8

### SECTION 7: HANDLING AND STORAGE

Store in a cool, dry, well ventilated area.

### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

#### EXPOSURE LIMITS:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### HAZARDOUS COMPONENT

#### OSHA PEL

#### ACGIH TLV

Manganese EDTA, dipotassium salt solution

## MORRAL 6% MANGANESE

### PERSONAL PROTECTIVE EQUIPMENT / PROTECTION MEASURES / CONTROLS:

RESPIRATORY PROTECTION:	NIOSH approved particulate / mist respirator, if required
EYE PROTECTION:	Safety glasses with sideshields, goggles, or faceshield recommended
SKIN PROTECTION:	Long sleeves, protective (rubber) gloves recommended
VENTILATION:	Local exhaust ventilation recommended

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	Dark amber / maroon liquid with no appreciable odor
pH:	7.0
MELTING POINT:	Not applicable
BOILING POINT:	~ 220°F
FLASH POINT:	Not flammable
EVAPORATION RATE:	Not available
FLAMMABLE LIMITS:	Not applicable
VAPOR PRESSURE:	Not available
VAPOR DENSITY:	Not available
SPECIFIC GRAVITY:	1.35
SOLUBILITY (IN WATER):	Soluble
PARTITION COEFFICIENT:	Not available
AUTOIGNITION TEMP:	Not available
DECOMPOSITION TEMP:	Not available
ODOR THRESHOLD:	Not available
VISCOSITY:	Not available

### SECTION 10: STABILITY AND REACTIVITY

STABILITY:	Product is stable.
CONDITIONS TO AVOID:	Excessive heat
INCOMPATIBILITY:	Reducing agents
HAZARDOUS DECOMPOSITION PRODUCTS:	NO <sub>x</sub>

### SECTION 11: TOXICOLOGICAL INFORMATION

HEALTH EFFECTS: May cause irritation of the eyes, skin, respiratory tract, and gastrointestinal tract.

CARCINOGENICITY: None of the ingredients are known / listed carcinogens.

#### INGREDIENT TOXICITY RANGES:

ORAL: None listed

DERMAL: None listed

INHALATION: None listed

### SECTION 12: ECOLOGICAL INFORMATION

This product is not known to be ecotoxic, persistent, or have the potential to bioaccumulate.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose of in accordance with all national, regional / state, and local regulations. Reuse recovered product where possible.

**SECTION 14: TRANSPORT INFORMATION**

This product is not regulated as a transportation hazard.

**SECTION 15: REGULATORY INFORMATION**

SARA SECTION 311 / 312 HAZARD CATEGORY: IMMEDIATE HAZARD

**SECTION 16: OTHER INFORMATION**

NFPA RATINGS:	HEALTH	1
	FLAMMABILITY	0
	INSTABILITY	0

HMIS RATINGS:	HEALTH	1
	FLAMMABILITY	0
	PHYSICAL HAZARD	0

PREPARED BY: SS