

ELE-MAX MANGANESE FL

Helena Chemical Company
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 Effective Date: 01-19-00
 Product: ELE-MAX MANGANESE FL

I. IDENTIFICATION

Chemical Name: LIQUID SUSPENSION CONCENTRATE OF MANGANESE
Chemical Family: INORGANIC METAL SALTS
Formula: NOT APPLICABLE, FORMULATED MIXTURE.
Synonyms: NONE
CAS Number: SEE INGREDIENT STATEMENT, SECTION III.
EPA Number: NOT REQUIRED

II. PHYSICAL DATA

Boiling Point: >100 DEGREES C.
Freezing Point: -7 DEGREES C.
Spec Gravity: 1.826 GMS/CC
Vapor Pressure: NOT ESTABLISHED
Vapor Density: NOT ESTABLISHED
Solubility: MISCIBLE WITH WATER
Volatiles: NOT ESTABLISHED
Evaporation: NOT ESTABLISHED
Melting Point: -7 DEGREES C.
Appearance: PALE BROWN LIQUID, LOW ODOR.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
PROPRIETARY LIQUID SUSPENSION CONCENTRATE OF MANGANESE CARBONATE AND UREA		100.00	NOT ESTABLISHED	PARTICLES IN SUSPENSION MAY CAUSE SKIN & EYE IRRITATION

IV. FIRE AND EXPLOSION HAZARD

Flash Point: NON-COMBUSTIBLE
Autoignition Temp: NOT APPLICABLE
Flammable Limit: NOT APPLICABLE
Extinguishing Media: NON-COMBUSTIBLE LIQUID. USE EXTINGUISHING MEDIA FOR UNDERLYING CAUSE OF FIRE.
Special Fire Fight Proc: WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT. USE WATER SPRAY TO KEEP FIRE-EXPOSED CONTAINERS COOL.
Fire and Expl Hazard: PRODUCT MAY PRODUCE TOXIC FUMES UNDER FIRE CONDITIONS.

V. HEALTH HAZARD

Carcinogen Information: NONE CURRENTLY KNOWN.
ACUTE EFFECTS OF OVER EXPOSURE
Swallowing: MAY BE HARMFUL IF INGESTED IN EXCESSIVE QUANTITIES, GIVING SYMPTOMS OF FUME FEVER, DRY THROAT, HEADACHES, MUSCLE ACHES, CRAMPS AND SLOWNESS OF SPEECH.
Skin Absorption: NONE CURRENTLY KNOWN.
Inhalation: EXCESSIVE INHALATION MAY BE HARMFUL GIVING SYMPTOMS OF FUME FEVER, DRY THROAT, HEADACHES, MUSCLE ACHES, CRAMPS & SLOWNESS OF SPEECH.
Skin contact: PRODUCT MAY PRODUCE MILD SKIN IRRITATION.
Eye Contact: PRODUCT MAY PRODUCE MILD EYE IRRITATION.
Chronic Effects: NONE CURRENTLY KNOWN WHERE PRODUCT IS USED UNDER CONDITIONS OF GOOD INDUSTRIAL HYGIENE.
Other Hazard: NONE CURRENTLY KNOWN.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: IF CONSCIOUS, GIVE MILK OR WATER TO DRINK. OBTAIN MEDICAL ATTENTION IMMEDIATELY.

Skin: REMOVE CONTAMINATED CLOTHING AND WASH WITH SOAP AND WATER. OBTAIN MEDICAL ATTENTION IF IRRITATION DEVELOPS.

Inhalation: MOVE TO FRESH AIR. OBTAIN MEDICAL ATTENTION IF IRRITATION DEVELOPS.

Eyes: FLUSH EYES WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. OBTAIN MEDICAL ATTENTION IF IRRITATION DEVELOPS.

Notes to Physician: IN THE EVENT OF AN ADVERSE RESPONSE, TREATMENT SHOULD BE DIRECTED TOWARD CONTROL OF THE SYMPTOMS AND THE CLINICAL CONDITION OF THE PATIENT.

VI. REACTIVITY

Stability: Stable
Conditions to Avoid: EXTREMES OF TEMPERATURE.

Polymerization: Will Not Occur
Conditions to Avoid: NONE CURRENTLY KNOWN.
Incompatibility material: ACIDS.

Hazardous Combustion: PRODUCT MAY PRODUCE MANGANESE FUME AND/OR OTHER TOXIC FUMES AND VAPORS UNDER FIRE CONDITIONS.

VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: CONTAIN PRODUCT, REUSE MATERIAL IF UNCONTAMINATED. IF CONTAMINATED, ABSORB MATERIAL WITH AN ABSORBENT SUCH AS CLAY OR SAND AND PLACE IN SUITABLE PLASTIC CONTAINER FOR PROPER DISPOSAL. DO NOT CONTAMINATE WATER SUPPLIES.

Waste Disposal Method: THIS MATERIAL MUST BE DISPOSED OF ACCORDING TO FEDERAL, STATE, OR LOCAL PROCEDURES UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT.

VIII. SPECIAL PROTECTION INFORMATION

Respiration: NONE NEEDED UNDER NORMAL CONDITIONS. USE NIOSH/MSHA MIST-TYPE RESPIRATOR UNDER MISTY CONDITIONS.

Ventilation: LOCAL EXHAUST SUFFICIENT.

Gloves: IMPERVIOUS GLOVES

Eyes: SPLASH PROOF GOGGLES.

Other: EYE WASH STATION, IMPERVIOUS APRON AND FOOTWEAR.

IX. SPECIAL PRECAUTIONS

Special precaution: KEEP OUT OF REACH OF CHILDREN. DO NOT STORE WITH FOOD, FEED, OR OTHER MATERIAL TO BE USED OR CONSUMED BY HUMANS OR ANIMALS. DO NOT CONTAMINATE WATER SUPPLIES, LAKES, STREAMS, OR PONDS. STORE IN ORIGINAL CONTAINERS, AWAY FROM EXCESSIVE HEAT BUT DO NOT ALLOW TO FREEZE.

Other precaution: THIS PRODUCT DOES NOT CONTAIN ANY CHEMICAL SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372.

X. SHIPPING INFORMATION

Shipping name: NOT REGULATED BY DOT (HIGHWAY), IATA (AIR) OR IMDG (WATER).

Hazard Class: NONE

Identification No: NONE

Labels Required: NONE REQUIRED

Placarding: NONE REQUIRED

Freight Class: COMPOUND, FERTILIZER (MANUFACTURED FERTILIZER) LIQUID, NOIBN (NMFC ITEM 68140, SUB 6, CLASS 70)

Chemical Name	Equivalent R.Q.
NOT APPLICABLE	NOT APPLICABLE

XI. GENERAL PRODUCT INFORMATION

National Fire Protection Association Rating:
 (Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

Health: 1

Fire: 0

Reactivity: 0

S.A.R.A. Title III Hazard Classification: (Yes/No)

Immediate (Acute) Health: Y

Delayed (Chronic) Health: N

Sudden Release of pressure: N

Fire: N

Reactive: N

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