Helena Chemical Company 14-AUG-2002 12:29:57 PH: 901-761-0050 Page 1 Of 4

CHEMTREC: 800-424-9300

## Material Safety Data Sheet

Effective Date: 19-JAN-2000

Product: ELE-MAX MANGANESE FL

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### 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

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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

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CAS Number Percent TLV Hazard Material \_\_\_\_\_\_

100.00 NOT PARTICLES IN PROPRIETARY LIQUID SUSPENSION

CONCENTRATE OF MANGANESE ESTABLI SUSPENSION MAY CARBONATE AND UREA SHED CAUSE SKIN & EYE IRRIT

## 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.

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### V. HEALTH HAZARD

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Carcinogen Information: NONE CURRENTLY KNOWN.

## ACUTE EFFECTS OF OVER EXPOSURE

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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

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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

PATTENT.

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# VI. REACTIVITY

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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.

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### VII. SPILL OR LEAK PROCEDURES

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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

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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

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

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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

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Chemical Name Equivalent R.Q.

NOT APPLICABLE NOT APPLICABLE

XI. GENERAL PRODUCT INFORMATION

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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

Mail inquiries to: 225 Schilling Blvd., Suite 300 Collierville, TN 38017 Helena Chemical Company believes that the data contained herein is factual. This data is not to be taken as a warranty or representation of legal responsibility. It is offered solely for your consideration, investigation and verification.