

Material Safety Data Sheet

Effective Date: 08-MAR-2003
Product: TRACITE CROP MIX

I. IDENTIFICATION

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

II. PHYSICAL DATA

Boiling Point: >100 DEGREES C.
Freezing Point: <20 DEGREES F.
Spec Gravity: 1.201 GMS/CC
Vapor Pressure: NOT ESTABLISHED
Vapor Density: NOT ESTABLISHED
Solubility: 99%
Volatiles: <0.5%
Evaporation: NOT ESTABLISHED
Melting Point: NOT APPLICABLE
Appearance: CLEAR LIQUID

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
MANGANESE SULPHATE	07785-87-7	3.60	CL 5 MG/M3	SKIN & EYE IRRITANT
ZINC SULFATE	07733-02-0	11.10	NOT ESTABLI SHED	SKIN & EYE IRRITANT
FERROUS SULFATE	07720-78-7	4.80	1 MG/M3	SKIN & EYE IRRITANT
WATER AND OTHER CHELATING OR COMPLEXING AGENTS		80.50	NOT ESTABLI SHED	NOT ESTABLISHED

IV. FIRE AND EXPLOSION HAZARD

Flash Point: NONCOMBUSTIBLE
Autoignition Temp: NOT APPLICABLE
Flammable Limit: NOT APPLICABLE
Extinguishing Media: NONCOMBUSTIBLE PRODUCT. USE EXTINGUISHING MEDIA
FOR UNDERLYING CAUSE OF FIRE.
Special Fire Fight Proc: WEAR SELF-CONTAINED BREATHING APPARATUS AND

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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: INGESTION RESULTS IN VOMITING AND ABDOMINAL
CRAMPS.
Skin Absorption: NONE CURRENTLY KNOWN.
Inhalation: NOSE AND THROAT IRRITATION.
Skin contact: SKIN IRRITATION.
Eye Contact: EYE IRRITATION.
Chronic Effects: NONE CURRENTLY KNOWN.
Other Hazard: NONE CURRENTLY KNOWN.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: IF CONSCIOUS, GIVE MILK OR WATER TO DRINK,
INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IF
IRRITATION DEVELOPS.
Skin: WASH SKIN THOROUGHLY 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. INGESTION MAY RESULT IN CORROSIVE
DAMAGE TO THE DIGESTIVE TRACT.

VI. REACTIVITY

Stability: Stable
Conditions to Avoid: NONE CURRENTLY KNOWN.
Polymerization: Will Not Occur
Conditions to Avoid: NONE CURRENTLY KNOWN.
Incompatibility material: PRODUCT MAY REACT VIGOROUSLY WITH ALKALINE
MATERIALS.
Hazardous Combustion: SULPHUR DIOXIDE UNDER FIRE CONDITIONS.

Helena Chemical Company
PH: 901-761-0050
CHEMTREC: 800-424-9300

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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 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.
Ventilation: LOCAL EXHAUST SUFFICIENT.
Gloves: IMPERVIOUS
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.
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 IN CONTAINERS LESS THAN
904 GALLONS.
Hazard Class: NONE
Identification No: NONE
Labels Required: NONE REQUIRED

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Placarding: NONE
Freight Class: COMPOUND, FERTILIZER (MANUFACTURED FERTILIZER)
LIQUID, NOIBN

Chemical Name	Equivalent R.Q.
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FERROUS SULFATE	1,000 LB(454 KG)
ZINC SULFATE	1,000 LB(454 KG)

TRANSPORTATION NOTE:
CONTAINER =/> 904 GALLONS, SHIP AS FOLLOWS:
RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (ZINC SULFATE), 9,
UN3082, PG III "ERG # 171"

XI. GENERAL PRODUCT INFORMATION

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

Health: 3 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
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