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PH: 901-761-0050 CHEMTREC: 800-424-9300

## Material Safety Data Sheet

Effective Date: 17-MAY-2000

Product: TRACITE ZFM PLUS

### I. IDENTIFICATION

Chemical Name: FORMULATED MIXTURE Chemical Family: INORGANIC METAL SALTS

Formula: NA

Synonyms: TRACITE FOR SOYBEANS CAS Number: SEE MATERIAL SECTION III.

EPA Number: NONE REQUIRED

### II. PHYSICAL DATA

Boiling Point: >100 DEGREES C. Freezing Point: <32 DEGREES F. Spec Gravity: 1.326 GMS/CC Vapor Pressure: NOT APPLICABLE Vapor Density: NOT APPLICABLE

> Solubility: 99% Volatiles: <0.5%

Evaporation: NOT DETERMINED Melting Point: NOT APPLICABLE

Appearance: BLACK LIQUID, PHENOLIC ODOR.

III. INGREDIENTS				
Material	CAS Number	Percent	TLV	Hazard
ZINC SULFATE	07733-02-0	6.94	_	SKIN & EYE IRRITANT
FERROUS SULFATE	07720-78-7	9.62	_	SKIN & EYE IRRITANT
MANGANESE SULFATE	07785-87-7	7.33	_	SKIN & EYE IRRITANT
MAGNESIUM SULFATE	NOT APPLICABLE	15.15	_	SKIN & EYE IRRITANT
INERT INGREDIENTS		60.96	NOT APPLICA BLE	NOT APPLICABLE

IV. FIRE AND EXPLOSION HAZARD

Flash Point: NOT APPLICABLE

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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

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Carcinogen Information: NONE CURRENTLY KNOWN.

## ACUTE EFFECTS OF OVER EXPOSURE

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Swallowing: INGESTION RESULTS IN VOMITING AND ABDOMINAL

CRAMPS.

Skin Absorption: NONE CURRENTLY KNOWN.

Inhalation: INHALATION MAY CAUSE NOSE AND THROAT

IRRITATION.

Skin contact: SKIN IRRITATION MAY OCCUR WITH CONTACT.

Eye Contact: LIQUID CONTACT WITH EYES MAY CAUSE 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

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Stability: Stable

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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, CARBON DIOXIDE AND CARBON

MONOXIDE 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 CONTAINERS FOR PROPER DISPOSAL. DO NOT CONTAMINATE WATER

SUPPLIES, LAKES, STREAMS, OR PONDS.

Waste Disposal Method: THIS MATERIAL MUST BE DISPOSED OF ACCORDING TO

FEDERAL, STATE, OR LOCAL PROCEDURES UNDER THE

RESOURCE CONSERVATION AND RECOVERY ACT.

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# VIII. SPECIAL PROTECTION INFORMATION

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Respiration: NONE NEEDED UNDER NORMAL CONDITIONS.

Ventilation: LOCAL EXHAUST SUFFICIENT.

Gloves: IMPERVIOUS

Eyes: SPLASH PROOF GOGGLES.

Other: EYE WASH STATION, IMPERVIOUS APRON AND

FOOTWEAR.

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## IX. SPECIAL PRECAUTIONS

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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: A) RCRA HAZARDOUS WASTE NUMBER: NOT LISTED

- B) SARA TITLE III, SECTION 313: NOT LISTED
- C) SARA THRESHOLD PLANNING QUANTITY: NOT LISTED
- D) CERCLA REPORTABLE QUANTITY: 1,000 LBS.
- E) CALIFORNIA PROPOSITION 65: NOT LISTED
- F) LISTED UNDER NEW JERSEY STATE RIGHT TO KNOW

LAW.

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### X. SHIPPING INFORMATION

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Shipping name: NOT REGULATED BY DOT

Hazard Class: NONE Identification No: NONE Labels Required: NONE 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) 1,000 LB(454 KG) ZINC SULFATE

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## 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

Fire: 0 Health: 2 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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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.