

TRACITE ZFM PLUS

Helena Chemical Company
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 CHEMTREC: 1-800-424-9300
 Effective Date: 05-17-00
 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	NOT APPLICABLE	SKIN & EYE IRRITANT
FERROUS SULFATE	07720-78-7	9.62	NOT APPLICABLE	SKIN & EYE IRRITANT
MANGANESE SULFATE	07785-87-7	7.33	NOT APPLICABLE	SKIN & EYE IRRITANT
MAGNESIUM SULFATE	NOT APPLICABLE	15.15	NOT APPLICABLE	SKIN & EYE IRRITANT
INERT INGREDIENTS		60.96	NOT APPLICABLE	NOT APPLICABLE

IV. FIRE AND EXPLOSION HAZARD

Flash Point: NOT APPLICABLE
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: 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

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, CARBON DIOXIDE AND CARBON MONOXIDE 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 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.

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:
 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.

X. SHIPPING INFORMATION

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.
FERROUS SULFATE	1,000 LB (454 KG)
ZINC SULFATE	1,000 LB (454 KG)

XI. GENERAL PRODUCT INFORMATION

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