

Material Safety Data Sheet

Effective Date: 05-FEB-2000
Product: ASSET STARTER FOR CORN

I. IDENTIFICATION

Chemical Name: NOT APPLICABLE, FORMULATED MIXTURE
Chemical Family: INORGANIC METAL SALT
Formula: NOT APPLICABLE, FORMULATED MIXTURE
Synonyms: NONE
CAS Number: NOT APPLICABLE, FORMULATED MIXTURE.
EPA Number: NONE REQUIRED

II. PHYSICAL DATA

Boiling Point: >100 DEGREES C.
Freezing Point: <30 DEGREES F.
Spec Gravity: 1.215 GMS/CC
Vapor Pressure: NOT ESTABLISHED
Vapor Density: NOT ESTABLISHED
Solubility: 99%
Volatiles: <0.5%
Evaporation: NOT ESTABLISHED
Melting Point: NOT APPLICABLE
Appearance: CLEAR DARK BROWN LIQUID, AMMONIA ODOR

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
PROPRIETARY BLEND OF MANGANESE SULFATE, IRON SULFATE, COPPER SULFATE, ZINC SULFATE AND CARBOXYLIC ACID		100.00	15 MG/M3	SEVERE EYE & MILD SKIN IRRITANT

IV. FIRE AND EXPLOSION HAZARD

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

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V. HEALTH HAZARD

Carcinogen Information: NONE CURRENTLY KNOWN.

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: RESULTS IN VOMITING AND ABDOMINAL CRAMPS.
Skin Absorption: MAY BE HARMFUL BY SKIN ABSORPTION.
Inhalation: INHALATION MAY CAUSE IRRITATION TO NOSE AND THROAT.
Skin contact: MAY CAUSE SKIN IRRITATION.
Eye Contact: MAY CAUSE EYE IRRITATION.
Chronic Effects: NONE CURRENTLY KNOWN.
Other Hazard: NONE CURRENTLY KNOWN.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: IF SWALLOWED, CALL A PHYSICIAN OR POISON CONTROL CENTER. DRINK 1 OR 2 GLASSES OF WATER AND INDUCE VOMITING BY TOUCHING BACK OF THROAT WITH FINGER.
Skin: WASH SKIN WITH PLENTY OF SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.
Inhalation: MOVE VICTIM TO FRESH AIR. OBTAIN MEDICAL ATTENTION IF IRRITATION PERSISTS.
Eyes: FLUSH EYES WITH PLENTY OF WATER. CALL A PHYSICIAN IF IRRITATION PERSISTS.
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: NONE CURRENTLY KNOWN
Polymerization: Will Not Occur
Conditions to Avoid: NONE CURRENTLY KNOWN.
Incompatibility material: PRODUCT MAY REACT VIGOROUSLY WITH ACIDIC MATERIALS.
Hazardous Combustion: MAY PRODUCE AMMONIA GAS AND OXIDES OF CARBON UNDER FIRE CONDITIONS.

VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: CONTAIN SPILL. IF UNCONTAMINATED, RECOVER AND

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REUSE PRODUCT. IF CONTAMINATED, ABSORB MATERIAL AND PLACE IN CHEMICAL WASTE CONTAINERS FOR PROPER DISPOSAL.
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. UNDER FIRE CONDITIONS OR IF VAPORS EXCEED TLV, USE NIOSH-APPROVED RESPIRATOR.
Ventilation: LOCAL EXHAUST SUFFICIENT.
Gloves: IMPERVIOUS
Eyes: SPLASH PROOF GOGGLES.
Other: EMERGENCY SHOWER, 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. PROTECT AGAINST PHYSICAL DAMAGE.
Other precaution: KEEP SEPARATE FROM OXIDIZING AND ACIDIC MATERIALS.

X. SHIPPING INFORMATION

Shipping name: NOT REGULATED BY DOT, IATA, OR IMO
Hazard Class: NONE
Identification No: NONE
Labels Required: NONE
Placarding: NONE
Freight Class: COMPOUND, FERTILIZER (MANUFACTURED FERTILIZER) LIQUID, NOIBN

Chemical Name	Equivalent R.Q.
----- NOT APPLICABLE	----- NOT APPLICABLE

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16-MAY-2002 15:27:55
Page 4 Of 4

Material Safety Data Sheet

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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

Mail inquiries to: 225 Schilling Blvd., Suite 300 Collierville, TN 38017
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