

Material Safety Data Sheet

Effective Date: 08-APR-2000
Product: ASSET (NON-CORROSIVE)

I. IDENTIFICATION

Chemical Name: NOT APPLICABLE, FORMULATED MIXTURE
Chemical Family: INORGANIC METAL SALT
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: <10 DEGREES F.
Spec Gravity: 1.115 GMS/CC
Vapor Pressure: NOT ESTABLISHED
Vapor Density: NOT ESTABLISHED
Solubility: 99%
Volatiles: <0.5%
Evaporation: NOT ESTABLISHED
Melting Point: NOT APPLICABLE
Appearance: CLEAR TO LIGHT HAZY LIQUID, AMMONIA ODOR

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
FORMULATED BLEND OF MAGNESIUM OXIDE, CARBOXYLIC ACIDS AND AMMONIA HYDROXIDE		100.00	NOT ESTABLISHED	SEVERE EYE & MILD SKIN IRRITANT
MAGNESIUM OXIDE	01309-48-4		10 MG/M3 (VAPOR)	
CARBOXYLIC ACIDS		TRADE SECRET	10 PPM	
AMMONIA HYDROXIDE	01336-21-6	CI 50	PPM (AIR)	

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.

Material Safety Data Sheet

Effective Date: 08-APR-2000
Product: ASSET (NON-CORROSIVE)

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.

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: SKIN CONTACT MAY CAUSE IRRITATION.
Eye Contact: EYE CONTACT RESULTS IN SEVERE IRRITATION.
Chronic Effects: NONE CURRENTLY KNOWN.
Other Hazard: NONE CURRENTLY KNOWN.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: DO NOT INDUCE VOMITING. IF VICTIM IS CONSCIOUS, GIVE WATER WITH LARGE AMOUNTS OF DILUTED VINEGAR OR LEMON JUICE. OBTAIN MEDICAL ATTENTION IMMEDIATELY.
Skin: WASH SKIN THOROUGHLY WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.
Inhalation: MOVE TO FRESH AIR. OBTAIN MEDICAL ATTENTION IMMEDIATELY IF BREATHING BECOMES DIFFICULT.
Eyes: FLUSH EYES WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. OBTAIN MEDICAL ATTENTION IMMEDIATELY.
Notes to Physician: IN THE EVENT OF AN ADVERSE RESPONSE, TREATMENT SHOULD BE DIRECTED TOWARD CONTROL OF THE SYMPTOMS. INGESTION MAY CAUSE 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 ACIDIC

Material Safety Data Sheet

Effective Date: 08-APR-2000
Product: ASSET (NON-CORROSIVE)

MATERIALS.

Hazardous Combustion: MAY PRODUCE AMMONIA GAS AND OXIDES OF CARBON
UNDER FIRE CONDITIONS.

VI. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: CONTAIN SPILL. IF UNCONTAMINATED, RECOVER AND
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/MSHA 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. KEEP
SEPARATE FROM OXIDIZING AND ACIDIC MATERIALS.

Other precaution: NONE CURRENTLY NEEDED.

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

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

16-OCT-2001 12:59:36
Page 4 Of 4

Material Safety Data Sheet

Effective Date: 08-APR-2000
Product: ASSET (NON-CORROSIVE)

Chemical Name	Equivalent R.Q.
NOT APPLICABLE	NOT APPLICABLE

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
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.