

Material Safety Data Sheet

Effective Date: 02-NOV-2000  
Product: ASSET PPS

I. IDENTIFICATION

Chemical Name: NOT APPLICABLE, FORMULATED MIXTURE  
Chemical Family: METAL CHELATES AND FERTILIZERS  
Formula: NOT APPLICABLE, FORMULATED MIXTURE  
Synonyms: NONE  
CAS Number: TRADE SECRET  
EPA Number: NONE REQUIRED

II. PHYSICAL DATA

Boiling Point: >100 DEGREES C.  
Freezing Point: <35 DEGREES F.  
Spec Gravity: 1.194 GMS/CC  
Vapor Pressure: NOT ESTABLISHED  
Vapor Density: NOT ESTABLISHED  
Solubility: 99%  
Volatiles: <0.5%  
Evaporation: NOT ESTABLISHED  
Melting Point: NOT APPLICABLE  
Appearance: CLEAR, BLUEISH GREEN LIQUID, LOW ODOR

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
PROPRIETARY BLEND OF POLYAMMONIUM PHOSPHATES, AMMONIUM CARBOXYLATES, POTASSIUM PHOSPHATES AND PHOSPHORIC ACID		100.00	10 MG/M3	SKIN & EYE 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  
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Carcinogen Information: NONE CURRENTLY KNOWN.

ACUTE EFFECTS OF OVER EXPOSURE  
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Swallowing: MAY BE HARMFUL IF INGESTED.  
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: DIRECT EYE CONTACT MAY RESULT IN SEVERE IRRITATION.  
Chronic Effects: NONE CURRENTLY KNOWN.  
Other Hazard: NONE CURRENTLY KNOWN.

EMERGENCY AND FIRST AID PROCEDURES  
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Swallowing: GIVE A LARGE AMOUNT OF WATER TO DRINK, MAKE PERSON VOMIT AND IMMEDIATELY CALL A PHYSICIAN. DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.  
Skin: REMOVE CONTAMINATED CLOTHING AND WASH SKIN WITH SOAP AND WATER. CALL A PHYSICIAN IF IRRITATION DEVELOPS OR PERSISTS.  
Inhalation: MOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NEEDED. IMMEDIATELY CALL A PHYSICIAN.  
Eyes: FLUSH EYES WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. CALL A PHYSICIAN IF IRRITATION DEVELOPS OR PERSISTS.  
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.

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VI. REACTIVITY  
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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.

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VI. SPILL OR LEAK PROCEDURES  
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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.

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VIII. SPECIAL PROTECTION INFORMATION  
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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.

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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. PROTECT AGAINST PHYSICAL DAMAGE. KEEP SEPARATE FROM OXIDIZING AND ACIDIC MATERIALS.  
Other precaution: NONE CURRENTLY NEEDED.

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X. SHIPPING INFORMATION  
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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

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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.  
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