

Material Safety Data Sheet

Effective Date: 05-OCT-1999
Product: ASSET RS

I. IDENTIFICATION

Chemical Name: PLANT NUTRITIONAL ADDITIVE.
Chemical Family: NOT APPLICABLE, FORMULATED MIXTURE.
Formula: NOT APPLICABLE, FORMULATED MIXTURE.
Synonyms: NONE
CAS Number: NOT APPLICABLE, FORMULATED MIXTURE.
EPA Number: NONE REQUIRED

II. PHYSICAL DATA

Boiling Point: 212 DEGREES F.
Freezing Point: 32 DEGREES F.
Spec Gravity: 1.020 GMS/CC
Vapor Pressure: NOT DETERMINED
Vapor Density: NOT DETERMINED
Solubility: SOLUBLE
Volatiles: 38%
Evaporation: NOT DETERMINED
Melting Point: NOT APPLICABLE
Appearance: CLEAR LIQUID, SEMI-SWEET ODOR.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
PROPRIETARY BLEND OF AMMONIA CARBOXYLIC ACIDS AND POLYACRYLIC ACID SALTS		100.00	15 MG/M3	MILD SKIN & EYE IRRITANT

IV. FIRE AND EXPLOSION HAZARD

Flash Point: NON-COMBUSTIBLE
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: FIREFIGHTERS SHOULD WEAR FULL-FACE, SELF
CONTAINED BREATHING APPARATUS AND IMPERVIOUS
PROTECTIVE CLOTHING. USE WATER TO COOL
CONTAINERS EXPOSED TO FIRE.
Fire and Expl Hazard: PREVENT HUMAN EXPOSURE TO FIRE, FUMES, SMOKE,
AND PRODUCTS OF COMBUSTION. EVACUATE NON-
ESSENTIAL PERSONNEL.

Material Safety Data Sheet

Effective Date: 05-OCT-1999
Product: ASSET RS

V. HEALTH HAZARD

Carcinogen Information: NONE CURRENTLY KNOWN.

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: INGESTION MAY CAUSE IRRITATION,
GASTROINTESTINAL DAMAGE, HEADACHE, DIARRHEA,
CONFUSION AND COMA.
Skin Absorption: SKIN CONTACT MAY CAUSE SOME IRRITATION.
Inhalation: INHALATION MAY CAUSE IRRITATION AND BREATHING
DIFFICULTY.
Skin contact: SKIN CONTACT MAY CAUSE IRRITATION.
Eye Contact: EYE CONTACT WITH PRODUCT MAY CAUSE 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 TO FRESH AIR. OBTAIN MEDICAL ATTENTION IF
IRRITATION DEVELOPS.
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: FIRE AND HIGH HEAT CONDITIONS.
Incompatibility material: STRONG OXIDIZERS AND STRONG ALKALINE CHEMICALS.
Hazardous Combustion: OXIDES OF NITROGEN, AMMONIA OR AMINES AND CARBON
MONOXIDE.

Material Safety Data Sheet

Effective Date: 05-OCT-1999
Product: ASSET RS

VI. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: RE-USE MATERIAL IF NOT CONTAMINATED. IF
CONTAMINATED, ABSORB MATERIAL ON AN ABSORBENT
AND PLACE IN A SUITABLE CONTAINER FOR PROPER
DISPOSAL. AVOID RUN-OFF TO GROUND WATER,
SURFACE WATER OR SEWERS.
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: IF FUMES OR VAPORS EXCEED TLV, USE A NIOSH/MSHA
APPROVED RESPIRATOR.
Ventilation: LOCAL EXHAUST SUFFICIENT.
Gloves: IMPERVIOUS
Eyes: CHEMICAL 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. STORE IN A SECURE, DRY, WELL-VENTILATED
AREA, SEGREGATED FROM OXIDIZERS AND OTHER
INCOMPATIBLE MATERIALS.
Other precaution: NONE

X. SHIPPING INFORMATION

Shipping name: NOT REGULATED BY DOT, IATA OR IMDG.
Hazard Class: NONE
Identification No: NONE
Labels Required: NONE REQUIRED

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

13-SEP-2001 09:02:42
Page 4 Of 4

Material Safety Data Sheet

Effective Date: 05-OCT-1999
Product: ASSET RS

Placarding: NONE REQUIRED
Freight Class: COMPOUND, FERTILIZER (MANUFACTURED FERTILIZER)
LIQUID, NOIBN

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	

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.