

Material Safety Data Sheet

Effective Date: 04-NOV-2008  
Product: QUEST (NON-CORROSIVE)

I. IDENTIFICATION

Chemical Name: NOT APPLICABLE, FORMULATED MIXTURE.  
Chemical Family: INORGANIC SALTS  
Formula: NOT APPLICABLE, FORMULATED MIXTURE.  
Synonyms: NONE  
CAS Number: NOT APPLICABLE, FORMULATED MIXTURE.  
EPA Number: CAL. REG. NO. 5905-50076-AA

II. PHYSICAL DATA

Boiling Point: >100 DEGREES C.  
Freezing Point: <10 DEGREES C.  
Spec Gravity: 1.320 GMS/CC  
Vapor Pressure: NOT DETERMINED  
Vapor Density: NOT DETERMINED  
Solubility: MISCIBLE  
Volatiles: <0.1%  
Evaporation: NOT DETERMINED  
Melting Point: NOT APPLICABLE  
Appearance: CLEAR LIQUID, WITH SLIGHT ODOR.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
PROPRIETARY BLEND OF AMMONIUM SALTS OF POLYACRYLIC, HYROXYCARBOXYLIC, AND PHOSPHORIC ACID		50.00	1 MG/M3	SLIGHT SKIN & EYE IRRITANT
INERT INGREDIENTS		50.00	N/E	NONHAZARDOUS

IV. FIRE AND EXPLOSION HAZARD

Flash Point: NONCOMBUSTIBLE  
Autoignition Temp: NOT APPLICABLE  
Flammable Limit: NOT APPLICABLE  
Extinguishing Media: NONCOMBUSTIBLE LIQUID. USE EXTINGUISHING MEDIA FOR UNDERLYING CAUSE OF FIRE.  
Special Fire Fight Proc: USE SELF-CONTAINED BREATHING APPARATUS WITH FULL PROTECTIVE EQUIPMENT. USE WATER SPRAY TO KEEP FIRE-EXPOSED CONTAINERS COOL.  
Fire and Expl Hazard: PRODUCT MAY PRODUCE TOXIC FUMES UNDER FIRE CONDITIONS.

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V. HEALTH HAZARD  
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Carcinogen Information: NONE CURRENTLY LISTED.

ACUTE EFFECTS OF OVER EXPOSURE  
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Swallowing: THE ACUTE ORAL LD50 (RATS) = >5,000 MG/KG. VERY LOW TOXICITY BY INGESTION. EPA TOXICITY CATEGORY III.

Skin Absorption: THE ACUTE DERMAL LD50 (RATS) = >2,000 MG/KG. VERY LOW TOXICITY BY CONTACT. EPA TOXICITY CATEGORY III.

Inhalation: THERE IS NO LC50 FOR THIS MATERIAL SINCE NO FATALITIES OCCURRED AT THE HIGHEST ATMOSPHERIC CONCENTRATION ACHIEVABLE IN THIS STUDY.

Skin contact: MAY CAUSE SLIGHT SKIN IRRITATION AFTER REPEATED OR PROLONGED CONTACT WITH THIS MATERIAL. EPA CATEGORY IV.

Eye Contact: MAY CAUSE MILD EYE IRRITATION AFTER DIRECT CONTACT WITH THIS MATERIAL. EPA CATEGORY III.

Chronic Effects: NONE CURRENTLY KNOWN.

Other Hazard: MAY CAUSE PULMONARY EDEMA IN EXTREME CASES.

EMERGENCY AND FIRST AID PROCEDURES  
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Swallowing: GIVE A LARGE AMOUNT OF WATER TO DRINK, DO NOT INDUCE VOMITING. IMMEDIATELY CALL A PHYSICIAN. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

Skin: REMOVE CONTAMINATED CLOTHING. WASH SKIN THOROUGHLY WITH SOAP AND WATER. IF IRRITATION DEVELOPS OR PERSISTS, CALL A PHYSICIAN.

Inhalation: MOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT. OBTAIN MEDICAL ATTENTION IMMEDIATELY.

Eyes: FLUSH EYES WITH WATER FOR 15 MINUTES, HOLDING EYELIDS APART. IF IRRITATION DEVELOPS OR PERSISTS, CALL A PHYSICIAN.

Notes to Physician: PRODUCT CONTAINS AMMONIA IN SOLUTION. IN THE EVENT OF AN ADVERSE RESPONSE, TREATMENT SHOULD BE DIRECTED TOWARD CONTROL OF THE SYMPTOMS.

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VI. REACTIVITY  
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Stability: Stable  
Conditions to Avoid: AVOID EXTREME HEAT AND OPEN FLAMES. AMMONIA GAS

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WILL BE GIVEN OFF.  
Polymerization: Will Not Occur  
Conditions to Avoid: NONE CURRENTLY KNOWN.  
Incompatibility material: AVOID CONTACT WITH POTASSIUM CHLORATE AND  
POTASSIUM NITRATE.  
Hazardous Combustion: BURNING MATERIAL MAY PRODUCE AMMONIA GAS,  
NITROGEN OXIDES, AND OXIDES OF CARBON.  
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VII. SPILL OR LEAK PROCEDURES

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Spill or Leak Proc: CONTAIN MATERIAL, REUSE IF UNCONTAMINATED. IF  
CONTAMINATED, ABSORB SPILL WITH CLAY OR SAND.  
PLACE IN A SUITABLE CONTAINER FOR PROPER  
DISPOSAL. DO NOT CONTAMINATE WATER SUPPLIES.  
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.  
Other precaution: NONE  
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X. SHIPPING INFORMATION

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Shipping name: NOT REGULATED BY DOT, IATA OR IMDG.  
Hazard Class: NONE  
Identification No: NONE  
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Helena Chemical Company  
PH: 901-761-0050  
CHEMTREC: 800-424-9300

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

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

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XI. GENERAL PRODUCT INFORMATION  
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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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Mail inquiries to: 225 Schilling Blvd., Suite 300 Collierville, TN 38017  
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