MATERIAL SAFETY DATA SHEET

--- IDENTIFICATION ---

PRODUCT #: 22124-4
CAS #: 648-43-3
NAME: AMMONIUM NITRATE, A.C.S. REAGENT

SYNONYMS
AMMONIUM NITRATE = AMMONIUM NITRATE (NO ORGANIC COATING) (UN1942) (DOT) = AMMONIUM NITRATE (ORGANIC COATING) (NA1942) (DOT) = AMMONIUM NITRATE, SOLUTION (CONTAINING 35% OR LESS WATER) (UN1524) (DOT) = AMMONIUM SALTPETER = MERCO PRILLS = UN 1942 (DOT) = NITRIC ACID = AMMONIUM SALT = UN 1942 (DOT) = UN 2426 (DOT) = VARIOFORM I =

--- TOXICITY HAZARDS ---

RTCS #: 880950000
AMMONIUM(NITRATE (1:1)

TOXICITY DATA
GRL-PAT LD50: 2217 MG/KG

REVIEW, STANDARDS, AND REGULATIONS

--- HEALTH HAZARD DATA ---

ACUTE EFFECTS
MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.
CAUSES EYE AND SKIN IRRITATION.
MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.
PROLONGED EXPOSURE CAN CAUSE:
GASTROINTESTINAL DISTURBANCES
BLOOD EFFECTS
TARGET ORGAN(S):
BLOOD
CENTRAL NERVOUS SYSTEM
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND BIOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

FIRST AID

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PRODUCT #: 523215

NAME: AMMONIUM NITRATE, A.C.S. REAGENT

--- HEALTH HAZARD DATA ---

In case of contact, immediately flush eyes or skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes.

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

If swallowed, wash out mouth with water. Provide person with water or milk if they are conscious.

Call a physician.

Wash contaminated clothing before reuse.

--- PHYSICAL DATA ---

MELTING POINT: 149 C
SPECIFIC GRAVITY: 1.725

APPEARANCE AND ODOR: WHITE CRYSTALS, GRANULES

--- FIRE AND EXPLOSION HAZARD DATA ---

EXTINGUISHING MEDIA:
WATER SPRAY.

SPECIAL FIGHTING PROCEDURES:
NEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

OXIDIZER MAY EXPLODE WHEN HEATED.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. EVAPORATES UNDER FIRE CONDITIONS. CONTAINER EXPLOSIONS MAY OCCUR UNDER FIRE CONDITIONS.

--- REACTIVITY DATA ---

INCOMPATIBILITIES

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MATERIAL SAFETY DATA SHEET

PRODUCT #: 441213
NAME: AMMONIUM NITRATE, A.C.S. REAGENT
-- -- REACTIVITY DATA -- --
STRONG REDUCING AGENTS
STRONG ACIDS
FINELY POWDERED METALS
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
NITROGEN DIOXIDE, AMMONIA

-- -- SPILL OR LEAK PROCEDURES -- --
STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
EVACUATE AREA.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY
RUBBER GLOVES
COVER WITH DRY LIME OR SODA ASH, PICK UP. KEEP IN A CLOSED CONTAINER
AND HOLD FOR WASTE DISPOSAL.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.
WASTE DISPOSAL METHOD
FOR SMALL QUANTITIES: CAUTIOUSLY ADD TO A LARGE STIRRED EXCESS OF
WATER. ADJUST THE PH TO NEUTRAL, SEPARATE ANY INSOLUBLE SOLIDS OR
LIQUIDS AND PACKAGE THEM FOR HAZARDOUS-WASTE DISPOSAL. FLUSH THE
STIRRING SOLUTION DOWN THE DRAIN WITH PLENTY OF WATER. THE HYDROLYSIS
AND NEUTRALIZATION REACTIONS MAY GENERATE HEAT AND FUMES WHICH CAN BE
CONTROLLED BY THE RATE OF ADDITION.
OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

-- -- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE -- --
WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT
GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.
USE ONLY IN A CHEMICAL FUME HOOD.
SAFETY SHOWER AND EYE BATH.
AVOID BREATHING DUST.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING.
IRRITANT.
KEEP TIGHTLY CLOSED.
KEEP AWAY FROM COMBUSTIBLE MATERIALS. HEAT, SPARKS, AND OPEN FLAME.
LABEL PRECAUTIONARY STATEMENTS.

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PRODUCT #: 44412B3
NAME: AMMONIUM NITRATE, A.C.S. REAGENT

--- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE ---

OXIDIZING
CORROSIVE
IRRITANT

CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE.
EXCITATION TO EYES, RESPIRATORY SYSTEM AND SKIN.

EXPOSED ORGAN(S): BLOOD
CENTRAL NERVOUS SYSTEM
KEEP AWAY FROM COMBUSTIBLE MATERIAL.
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
WEAR SUITABLE PROTECTIVE CLOTHING.

.ADDITIONAL PRECAUTIONS AND COMMENTS ---

ADDITIONAL INFORMATION
AMMONIUM NITRATE DECOMPOSES AT ABOUT 210 C. THE PRESENCE OF IMPURITIES MARKS OR ALTERS THE DECOMPOSITION TEMPERATURE. E.G. CHLORIDE SALTS, SULFURIC ACID OR THE FOLLOWING CONCENTRATED ACIDS REACT VIOLENTLY OR EXPLOSIVELY WITH FUSED AMMONIUM NITRATE BELOW 200 C: ALUMINUM, ANTIMONY, BISULFITE, CADMIUM, CHROMIUM, COBALT, COPPER, LEAD, NICKEL, TIN, ZINC, TITANIUM, MAGNESIUM, MANGANESE, POTASSIUM, SODIUM, NITRATES, SULFUR, POTASSIUM NITRATES, SODIUM SULFATE, NITRATES, STAINLESS STEEL, CHLORINE, CYANOGUANIDINE, POTASSIUM PERMANGANATE, ACETIC ACID, ACETIC ANHYDRIDE, HOT AQUEOUS SOLUTIONS OF AMMONIUM NITRATE OF ABOVE 50% CONCENTRATION MAY DECOMPOSE EXPLOSIVELY UNDER AEROSOLIC CONDITIONS AND CONFINEMENT.

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