



chemists helping chemists in research & industry

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DATE: 07/21/92
CUST#: 946188
PO#: P0071984

M A T E R I A L S A F E T Y D A T A S H E E T P A G E 1

IDENTIFICATION

PRODUCT #: 21758-1
CAS #: 10022-31-8
MF: BAN206

NAME: BARIUM NITRATE, 99+%, A.C.S. REAGENT

SYNONYMS

BARIUM DINITRATE * BARIUM NITRATE * BARIUM NITRATE (DOT) * DUSICNAN
BARNATY (CZECH) * NITRATE DE BARYUM (FRENCH) * NITRIC ACID, BARIUM
SALT * UN 1446 (DOT) *

TOXICITY HAZARDS

RTECS NO: CQ9625000

BARIUM(II) NITRATE (1:2)

IRRITATION DATA

SKN-RBT 500 MG/24H MLD

28ZPAK -,10,72

EYE-RBT 100 MG/24H MOD

28ZPAK -,10,72

TOXICITY DATA

RL-RAT LD50:355 MG/KG

28ZPAK -,10,72

IVN-MUS LD50:16 MG/KG

TXAPA9 22,150,72

REVIEWS, STANDARDS, AND REGULATIONS

ACGIH TLV-TWA 0.5 MG(BA)/M3 85INAB 5,47,86

MSHA STANDARD-AIR:TWA 0.5 MG(BA)/M3 DTLVS* 3,21,71

OSHA PEL:8H TWA 0.5 MG(BA)/M3 FEREAC 54,2923,89

OSHA PEL FINAL:8H TWA 0.5 MG(BA)/M3 FEREAC 54,2923,89

NOHS 1974: HZD 81720; NIS 12; TNF 542; NOS 13; TNE 2705

NOES 1983: HZD 81720; NIS 23; TNF 600; NOS 26; TNE 19320; TFE 5165

EPA TSCA CHEMICAL INVENTORY, JUNE 1990

TARGET ORGAN DATA

GASTROINTESTINAL (HYPERMOTILITY, DIARRHEA)

KIDNEY, URETER, BLADDER (URINE VOLUME INCREASED)

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS)
DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

HEALTH HAZARD DATA

ACUTE EFFECTS

HARMFUL IF INHALED OR SWALLOWED.

CAUSES EYE IRRITATION.

MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.

CHRONIC EFFECTS

TARGET ORGAN(S):

CONTINUED ON NEXT PAGE

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M A T E R I A L S A F E T Y D A T A S H E E T **P A G E 2**

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HEALTH HAZARD DATA

HEART
NERVES
KIDNEYS
G.I. SYSTEM
BONE MARROW
SPLEEN
LIVER
BLOOD

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

FIRST AID

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 PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN IMMEDIATELY.

PHYSICAL DATA

MELTING PT: 592 C (DEC)
SPECIFIC GRAVITY: 3.230

APPEARANCE AND ODOR
WHITE CRYSTALLINE POWDER

FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA

NONCOMBUSTIBLE.

USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS.

SPECIAL FIREFIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

UNUSUAL FIRE AND EXPLOSION HAZARDS

STRONG OXIDIZER.

CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE.

MAY EXPLODE WHEN HEATED.

MAY BE SHOCK-SENSITIVE.

CONTINUED ON NEXT PAGE

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M A T E R I A L S A F E T Y D A T A S H E E T **PAGE 3**

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----- FIRE AND EXPLOSION HAZARD DATA -----

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

----- REACTIVITY DATA -----

INCOMPATIBILITIES

ACIDS
BASES
ACID ANHYDRIDES
REDUCING AGENTS
MOISTURE
HEAT

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
NITROGEN OXIDES

----- SPILL OR LEAK PROCEDURES -----

ST **TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED**
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY
RUBBER GLOVES.
SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.
AVOID RAISING DUST.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.
WASTE DISPOSAL METHOD
TO A SOLUTION OF THE PRODUCT IN WATER, ADD AN EXCESS OF DILUTE
SULFURIC ACID. LET STAND OVERNIGHT. REMOVE ANY INSOLUBLES AND BURY
IN A LANDFILL SITE APPROVED FOR HAZARDOUS WASTE DISPOSAL.

--- 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.
DO NOT BREATHE DUST.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING.
TOXIC.
IRRITANT.

CONTINUED ON NEXT PAGE

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NAME: BARIUM NITRATE, 99+%, A.C.S. REAGENT

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

KEEP TIGHTLY CLOSED.
KEEP AWAY FROM COMBUSTIBLE MATERIALS, HEAT, SPARKS, AND OPEN FLAME.
DO NOT DROP.

STORE IN A COOL DRY PLACE.

LABEL PRECAUTIONARY STATEMENTS

OXIDIZING

TOXIC (USA DEFINITION)

HARMFUL (EUROPEAN DEFINITION)

CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE.

HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

TARGET ORGAN(S):

HEART

NERVES

KEEP AWAY FROM COMBUSTIBLE MATERIAL.

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING.

WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.

REGULATORY INFORMATION

THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.

----- ADDITIONAL PRECAUTIONS AND COMMENTS -----

ADDITIONAL INFORMATION

USE POLYETHYLENE TOOLS. A MIXTURE OF ALUMINUM POWDER, WATER AND METAL NITRATE MAY EXPLODE DUE TO A SELF-ACCELERATING REACTION. MIXTURES OF METAL NITRATES WITH ALKYL ESTERS MAY EXPLODE, OWING TO THE FORMATION OF ALKYL NITRATES. MIXTURES OF A NITRATE WITH PHOSPHOROUS, TIN(2) CHLORIDE OR OTHER REDUCING AGENTS MAY REACT EXPLOSIVELY. MIXTURES OF METAL NITRATES AND PHOSPHINATES EXPLODE ON HEATING. MIXTURES CONTAINING NITRATES, NITRITES, AND ORGANIC MATERIALS ARE POTENTIALLY DANGEROUS, ESPECIALLY IN THE PRESENCE OF ACIDIC MATERIALS AND HEAVY METALS. INCOMPATIBLE WITH: CYANIDES, THIOCYANATES, ISOTHIOCYANATES, HYPOPHOSPHITES.

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