



chemists helping chemists in research & industry

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DATE: 03/10/94
CUST#: 938609
PO#: 76522

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

PAGE 1

SECTION 1. - - - - - CHEMICAL IDENTIFICATION - - - - -

PRODUCT #: 22873-7 NAME: ZINC NITRATE HEXAHYDRATE, 98%

SECTION 2. - - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -

CAS #: 10196-18-6

MF: N2O6ZN

SYNONYMS

DUSICNAN ZINECNATY (CZECH) * NITRIC ACID, ZINC SALT, HEXAHYDRATE *

SECTION 3. - - - - - HAZARDS IDENTIFICATION - - - - -

LABEL PRECAUTIONARY STATEMENTS

OXIDIZING

CORROSIVE

CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE.

CAUSES BURNS.

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

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, GLOVES AND EYE/FACE

PROTECTION.

DO NOT BREATHE DUST.

SECTION 4. - - - - - FIRST-AID MEASURES - - - - -

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.

ASSURE ADEQUATE FLUSHING OF THE EYES BY SEPARATING THE EYELIDS WITH FINGERS.

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.

DISCARD CONTAMINATED CLOTHING AND SHOES.

SECTION 5. - - - - - FIRE FIGHTING MEASURES - - - - -

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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 2

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PRODUCT #: 228737
MF: N2O6ZN

NAME: ZINC NITRATE HEXAHYDRATE, 98%

EXTINGUISHING MEDIA

WATER SPRAY.

SPECIAL FIREFIGHTING PROCEDURES

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

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE.
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6. - - - - - ACCIDENTAL RELEASE MEASURES- - - - -

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.

SECTION 7. - - - - - HANDLING AND STORAGE- - - - -
REFER TO SECTION 8.

ADDITIONAL INFORMATION

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.

SECTION 8. - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION- - - - -

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.
SAFETY SHOWER AND EYE BATH.

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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

CUST#: 938609

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PRODUCT #: 228737
MF: N206ZN

NAME: ZINC NITRATE HEXAHYDRATE, 98%

USE ONLY IN A CHEMICAL FUME HOOD.
AVOID BREATHING DUST.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING.
HARMFUL SOLID.
CORROSIVE.
KEEP TIGHTLY CLOSED.
KEEP AWAY FROM COMBUSTIBLE MATERIALS, HEAT, SPARKS, AND OPEN FLAME.
HYGROSCOPIC
STORE IN A COOL DRY PLACE.

SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - -

APPEARANCE AND ODOR
MOIST WHITE CRYSTALS
SPECIFIC GRAVITY: 2.065

SECTION 10. - - - - - STABILITY AND REACTIVITY - - - - -

INCOMPATIBILITIES
STRONG REDUCING AGENTS
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
NITROGEN OXIDES

SECTION 11. - - - - - TOXICOLOGICAL INFORMATION - - - - -

ACUTE EFFECTS
HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.
MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES
AND UPPER RESPIRATORY TRACT, EYES AND SKIN.
INHALATION MAY BE FATAL AS A RESULT OF SPASM, INFLAMMATION AND EDEMA
OF THE LARYNX AND BRONCHI, CHEMICAL PNEUMONITIS AND PULMONARY EDEMA.
SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING,
WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND
VOMITING.
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

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PAGE 4

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PRODUCT #: 228737
MF: N2O6ZN

NAME: ZINC NITRATE HEXAHYDRATE, 98%

RTECS NO: ZH4775000

ZINC(II) NITRATE, HEXAHYDRATE (1:2:6)

IRRITATION DATA

SKN-RBT 500 MG/24H SEV

28ZPAK -,10,72

EYE-RBT 20 MG/24H MOD

28ZPAK -,10,72

TOXICITY DATA

ORL-RAT LD50:1190 MG/KG

28ZPAK -,10,72

IPR-RAT LD50:133 MG/KG

VHODE 30,224,88

ORL-MUS LD50:926 MG/KG

VHODE 30,224,88

IPR-MUS LD50:110 MG/KG

VHODE 30,224,88

TARGET ORGAN DATA

SENSE ORGANS AND SPECIAL SENSES (MIOSIS)

SENSE ORGANS AND SPECIAL SENSES (CONJUNCTIVA IRRITATION)

VASCULAR (BP ELEVATION NOT CHARACTERIZED IN AUTONOMIC SECTION)

SKIN AND APPENDAGES (HAIR)

NUTRITIONAL AND GROSS METABOLIC (WEIGHT LOSS OR DECREASED WEIGHT GAIN)

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES

(RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR

COMPLETE INFORMATION.

SECTION 12. - - - - - ECOLOGICAL INFORMATION - - - - -
DATA NOT YET AVAILABLE.

SECTION 13. - - - - - DISPOSAL CONSIDERATIONS - - - - -

THE MATERIAL SHOULD BE DISSOLVED IN 1) WATER; 2) ACID SOLUTION OR 3) OXIDIZED TO A WATER-SOLUBLE STATE. PRECIPITATE THE MATERIAL AS THE SULFIDE, ADJUSTING THE PH OF THE SOLUTION TO 7 TO COMPLETE PRECIPITATION. FILTER THE INSOLUBLES AND DISPOSE OF THEM IN A HAZARDOUS-WASTE SITE. DESTROY ANY EXCESS SULFIDE WITH SODIUM HYPOCHLORITE. NEUTRALIZE THE SOLUTION BEFORE FLUSHING DOWN THE DRAIN. OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. - - - - - TRANSPORT INFORMATION - - - - -

CONTACT ALDRICH CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

SECTION 15. - - - - - REGULATORY INFORMATION - - - - -

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PAGE 5

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PRODUCT #: 228737
MF: N2O6 ZN

NAME: ZINC NITRATE HEXAHYDRATE, 98%

REVIEWS, STANDARDS, AND REGULATIONS

NOES 1983: HZD X1619; NIS 5; TNF 89; NOS 7; TNE 315; TFE 109

THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.

SECTION 16. - - - - - OTHER INFORMATION - - - - -

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