



chemists helping chemists in research & industry

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DATE: 07/27/93
CUST#: 938609
PO#: PC074850

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

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IDENTIFICATION

PRODUCT #: 20998-8
CAS #: 7440-66-6
MF: ZN

NAME: **ZINC, DUST, -325 MESH**

SYNONYMS

BLUE POWDER * C.I. 77945 * C.I. PIGMENT BLACK 16 * C.I. PIGMENT METAL
6 * EMANAY ZINC DUST * GRANULAR ZINC * JASAD * MERRILLITE * PASCO *
ZINC DUST * ZINC POWDER *

TOXICITY HAZARDS

RTECS #: ZG8600000
ZINC

IRRITATION DATA

SKN-HMN 300 UG/3D-I MLD

85DKA8 -,127,77

REVIEWS, STANDARDS, AND REGULATIONS

OEL-ARAB REPUBLIC OF EGYPT:TWA 0.1 MG/M3 JANUARY 1993
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA, NEW ZEALAND, SINGAPORE,
VIETNAM CHECK ACGIH TLV
NOHS 1974: HZD T0146; NIS 2; TNF 44; NOS 1; TNE 324
NOES 1983: HZD X4242; NIS 46; TNF 3278; NOS 47; TNE 79920; TFE 7874
ATSDR TOXICOLOGY PROFILE (NTIS** PB/90/171414/AS)
EPA GENETOX PROGRAM 1988, INCONCLUSIVE: IN VIVO CYTOGENETICS-HUMAN
LYMPHOCYTE
EPA TSCA CHEMICAL INVENTORY, JUNE 1990
EPA TSCA SECTION 8(E) STATUS REPORT 8EHQ-0680-0345
EPA TSCA SECTION 8(E) STATUS REPORT 8EHQ-0286-0588; 8EHQ-0586-0601
ON EPA IRIS DATABASE
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JANUARY 1993
NIOSH ANALYTICAL METHODS: SEE ZINC, 7030; WELDING AND BRAZING FUME,
7200; ELEMENTS, 7300
NIOSH ANALYTICAL METHODS: SEE ELEMENTS IN BLOOD OR TISSUE 8005
NIOSH ANALYTICAL METHODS: SEE METALS IN URINE (ICP) 8310
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

MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.
MAY CAUSE EYE IRRITATION.
MAY CAUSE SKIN IRRITATION.
EXPOSURE CAN CAUSE:

CONTINUED ON NEXT PAGE

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HEALTH HAZARD DATA

LUNG IRRITATION, CHEST PAIN AND EDEMA WHICH MAY BE FATAL.
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

FIRST AID

CONTAMINATION OF THE EYES SHOULD BE TREATED BY IMMEDIATE AND PROLONGED
IRRIGATION WITH COPIOUS AMOUNTS OF WATER.
IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS
AMOUNTS OF WATER.
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.
WASH CONTAMINATED CLOTHING BEFORE REUSE.

PHYSICAL DATA

MELTING POINT: 419.5 C
SPECIFIC GRAVITY: 7.140
VAPOR PRESSURE: 1 MM @ 487 C

APPEARANCE AND ODOR
GREY POWDER

FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA

USE APPROVED CLASS D EXTINGUISHERS OR SMOTHER WITH DRY SAND, DRY
GROUND LIMESTONE OR DRY CLAY.
DO NOT USE WATER.

SPECIAL FIREFIGHTING PROCEDURES

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

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

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F I R E A N D E X P L O S I O N H A Z A R D D A T A

THIS MATERIAL, LIKE MOST MATERIALS IN POWDER FORM, IS CAPABLE OF
CREATING A DUST EXPLOSION.
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

R E A C T I V I T Y D A T A

I N C O M P A T I B I L I T I E S

AMINES
CADMIUM
PROTECT FROM MOISTURE.
AIR SENSITIVE
CHLORINATED SOLVENTS
SULFUR
STRONG ACIDS
STRONG BASES

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
NATURE OF DECOMPOSITION PRODUCTS NOT KNOWN.

S P I L L O R L E A K P R O C E D U R E S

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

EVACUATE AREA.
SHUT OFF ALL SOURCES OF IGNITION.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY
RUBBER GLOVES.
SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.
USE NONSPARKING TOOLS.
AVOID RAISING DUST.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.
WASTE DISPOSAL METHOD
MATERIAL IN THE ELEMENTAL STATE SHOULD BE RECOVERED FOR REUSE OR
RECYCLING.
OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

P R E C A U T I O N S T O B E T A K E N I N H A N D L I N G A N D S T O R A G E

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

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

DO NOT BREATHE DUST.
AVOID CONTACT WITH EYES, SKIN AND CLOTHING.
WASH THOROUGHLY AFTER HANDLING.
KEEP TIGHTLY CLOSED.
KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.
AIR AND MOISTURE SENSITIVE
LABEL PRECAUTIONARY STATEMENTS
FLAMMABLE (USA DEFINITION)
HIGHLY FLAMMABLE (EUROPEAN DEFINITION)
AIR AND MOISTURE SENSITIVE
KEEP AWAY FROM SOURCES OF IGNITION. NO SMOKING.
TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES.
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

ZINC REACTS WITH ACIDS, STRONG ALKALIES, CHLORIDES, CHLORATES, OXIDES, NITRATES, FLUORINE, CARBON DISULFIDE. THE PRESENCE OF MOISTURE CAN RESULT IN SPONTANEOUS COMBUSTION.

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