



chemists helping chemists in research & industry

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DATE: 07/27/93  
CUST#: 938609  
PO#: P0074850

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

IDENTIFICATION

PRODUCT #: 21548-1  
CAS #: 7440-66-6 NAME: ZINC, MOSSY, 99+%  
MF: ZN

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/30-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.  
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND

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**

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CUST#: 938609  
PG#: P0074850

PRODUCT #:

NAME: ZINC, MOSSY, 99+%

MF: ZN

**HEALTH HAZARD DATA**

TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

**FIRST AID**

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES.  
FLUSH SKIN WITH WATER.  
IF INHALED, REMOVE TO FRESH AIR.

**PHYSICAL DATA**

MELTING POINT: 420 C  
SPECIFIC GRAVITY: 7.140  
VAPOR PRESSURE: 1 MM @ 487 C

**APPEARANCE AND ODOR**

SILVERY METAL CHUNKS

**FIRE AND EXPLOSION HAZARD DATA**

**EXTINGUISHING MEDIA**

USE APPROVED CLASS D EXTINGUISHERS OR SMOTHER WITH DRY SAND, DRY GROUND LIMESTONE OR DRY CLAY.

**SPECIAL FIREFIGHTING PROCEDURES**

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

**UNUSUAL FIRE AND EXPLOSIONS HAZARDS**

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

**REACTIVITY DATA**

**INCOMPATIBILITIES**

AMINES  
CADMIUM  
PROTECT FROM MOISTURE.  
AIR 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

CUST#: 938609  
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PRODUCT #:

NAME: ZINC, MOSSY, 99+%

MF: ZN

### REACTIVITY DATA

CHLORINATED SOLVENTS  
SULFUR  
STRONG ACIDS  
STRONG BASES

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

### SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED  
SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.

WASTE DISPOSAL METHOD  
MATERIAL IN THE ELEMENTAL STATE SHOULD BE RECOVERED FOR REUSE OR RECYCLING.  
OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

CHEMICAL SAFETY GOGGLES.  
COMPATIBLE CHEMICAL-RESISTANT GLOVES.  
NIOSH/MSHA-APPROVED RESPIRATOR.  
SAFETY SHOWER AND EYE BATH.  
MECHANICAL EXHAUST REQUIRED.  
AVOID CONTACT AND INHALATION.  
WASH THOROUGHLY AFTER HANDLING.  
KEEP TIGHTLY CLOSED.

AIR AND MOISTURE SENSITIVE  
LABEL PRECAUTIONARY STATEMENTS  
AIR AND MOISTURE SENSITIVE  
STORE IN A DRY AREA.

### 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.

CONTINUED ON NEXT PAGE

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**ADDITIONAL PRECAUTIONS AND COMMENTS**

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CUST # 938609 P.O. #

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

IDENTIFICATION

PRODUCT # 21548-1      NAME: ZINC, MOSSY, 99+%  
CAS # 7440-66-6

TOXICITY HAZARDS

RTECS # ZG8600000

ZINC

IRRITATION DATA

SKN-HMN 300 UG/3D-I MLD

85DKA8 -,127,77

REVIEWS, STANDARDS, AND REGULATIONS

EPA GENETIC TOXICOLOGY PROGRAM, JANUARY 1984

REPORTED IN EPA TSCA INVENTORY, 1983

EPA TSCA SECTION 8(E) STATUS REPORT 8EHQ-0680-0345

"NIOSH MANUAL OF ANALYTICAL METHODS, 3RD ED." SEE: METHODS 7030 AND

7300

MEETS CRITERIA FOR PROPOSED OSHA MEDICAL RECORDS RULE FEREAC 47,30420,

82

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

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

PHYSICAL DATA

MELTING POINT: 420 C

SPECIFIC GRAVITY: 7.140

FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA

CLASS D FIRE-EXTINGUISHING MATERIAL ONLY.

SPECIAL FIRE FIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO

PREVENT CONTACT WITH SKIN AND EYES.

UNUSUAL FIRE AND EXPLOSION HAZARDS

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

REACTIVITY DATA

INCOMPATIBILITIES

AMINES

CADMIUM

PROTECT FROM MOISTURE.

STRONG OXIDIZING AGENTS

SULFUR

STRONG ACIDS

STRONG BASES

CHLORINATED SOLVENTS

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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

CATALOG # 21548-1

NAME: ZINC, MOSSY, 99+%

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS  
TOXIC FUMES

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

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED  
SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.  
WASTE DISPOSAL METHOD  
MATERIAL IN THE ELEMENTAL STATE SHOULD BE RECOVERED FOR REUSE OR RECYCLING.

OBSERVE ALL FEDERAL, STATE & LOCAL LAWS.

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

CHEMICAL SAFETY GOGGLES.  
WASH THOROUGHLY AFTER HANDLING.  
KEEP TIGHTLY CLOSED.  
AIR- AND MOISTURE-SENSITIVE.  
STORE IN A COOL DRY PLACE.

### ----- 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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