

ZINC CORPORATION OF AMERICA 300 FRANKFORT ROAD MONACA, PA 15061-2295

724-774-1020

MSDS FOR ZINC OXIDE: XX503R, XX601R, CEROX-506

ZC-X013

SECTION I - GENERAL INFORMATION

NAME: ZINC OXIDE

MANUFACTURER: ZINC CORPORATION OF AMERICA 300 Frankfort Road

Monaca, PA 15061 724-774-1020 TRANSPORTATION EMERGENCY:

CHEMTREC: 800-424-9300

CHEMICAL FAMILY: Nonferrous Metal Oxide

CAS NO.: 1314-13-2

FORMULA: ZnO

DOT HAZARD CLASS: Not listed

UN NO .: NAIF* NA NO .: NAIF*

SARA SECTION 313: This product is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act and 40 CFR 372. The materials underlined below are present in quantities above the applicable deminimis concentrations and are listed as Toxic Chemicals in 40 CFR 372.65.

ISSUE DATE: 2/12/88

REVISION DATE: 11/15/01

SECTION II - INGREDIENTS

MATERIAL	CAS NO.	<u>%</u>
ZINC OXIDE	1314-13-2	99.8
LEAD	7439-92-1	0.05
CADMIUM	7440-43-9	0.04

LEAD AND CADMIUM ARE INHERENT IN THE MANUFACTURE OF ZINC AND ARE NOT PHYSICALLY ADDED IN THE MANUFACTURE OF ZINC OXIDE.

^{*} NAIF - No applicable information found.

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SECTION III PHYSICAL DATA

BOILING POINT (760 MM HG): N/A

MELTING POINT: 3587° F

SPECIFIC GRAVITY: 5.61

EVAPORATION RATE (=1): N/A

VAPOR DENSITY (air = 1): N/A

SOLUBILITY IN WATER: Negligible

PERCENT VOLATILE BY VOLUME (%): N/A

VAPOR PRESSURE AT 20° C: N/A

APPEARANCE AND ODOR: White powder with no odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): N/A

NFPA FIRE RATING

FLAMMABLE LIMITS: LEL: N/A

UEL: N/A

HEALTH

FLAMMABILITY 0

REACTIVITY

0

EXTINGUISHING MEDIA: Zinc oxide does not burn. Water spray, dry chemical, or carbon dioxide extinguishers may be used for fires in storage areas.

SPECIAL FIRE FIGHTING PROCEDURES: Non-Flammable

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION V - HEALTH HAZARD DATA

MATERIAL	FORM	OSHA-PEL TWA mg/m³	ACGIH-TLV	
12 . 1 = 110 . =			TWA mg/m³	STEL mg/m ³
ZINC OXIDE	Total Dust	15	10	_
	Respirable (Fume)	5	5	10

ROUTES OF ENTRY

PRIMARY: Inhalation

SECONDARY: Ingestion

EFFECTS OF SHORT TERM OVEREXPOSURE:

ZINC OXIDE: Inhalation of high levels of zinc oxide may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Overexposure may produce symptoms known as metal fume fever or "zinc shakes"; an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting. Like any finely divided particulate matter, zinc oxide may cause mechanical irritation to skin and eyes.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Inhalation of dust may be an irritant to pre-existing respiratory conditions.

EMERGENCY AND FIRST AID PROCEDURES: Symptoms resulting from inhalation overexposure usually disappear within 24 hours. Symptomatic treatment, such as bed rest and possibly aspirin is recommended to provide relief from fever and chills. Skin contact - flush areas with large amounts of water. Eye contact - flush eyes with copious amounts of water. In all cases, consult physician for medical attention.

EFFECTS OF LONG TERM OVEREXPOSURE:

ZINC OXIDE: Chronic exposure to zinc oxide may cause respiratory tract irritation with nasopharyngitis and laryngitis.

CARCINOGENIC ASSESSMENT:

NTP? No

IARC MONOGRAPH? No

OSHA? No

SECTION VI - REACTIVITY DATA

STABILITY:

() Unstable

(X) Stable

CONDITIONS TO AVOID: None

INCOMPATIBILITY (MATERIALS TO AVOID): None known.

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION:

() May occur

(X) Will not occur

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: As with any nuisance dust,

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avoid excessive dusting. Material should be contained for recycling.

WASTE DISPOSAL METHOD: Dispose in a closed container or heavy bag. Material may be recycled or disposed of in accordance with Federal, State and Local Environmental Regulations. This material may be regulated under CERCLA, TSCA, SARA, and/or RCRA Regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): Use NIOSH/MSHA approved type respirator for protection against dust.

VENTILATION: Local exhaust or other ventilation that will reduce dust concentrations to less than permissible exposure limits.

PROTECTIVE GLOVES: Recommended to prevent skin irritation in hypersensitive individuals.

EYE PROTECTION: Use safety eyewear for protection against airborne particulate matter.

OTHER PROTECTIVE EQUIPMENT: Barrier creams may help prevent skin irritation in hypersensitive individuals.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: None.

OTHER PRECAUTIONS: Practice good personal hygene when working in areas where this material is used. Avoid prolonged contact with skin.

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