



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

(412) 774-1020

MSDS FOR ZINC OXIDE: PC-16, 21, 25, 31, 35, 40, 45

SECTION I (General Information)

NAME: ZINC OXIDE

MANUFACTURER: ZINC CORPORATION OF AMERICA

EMERGENCY: 412-774-1020
CHEMTREC: 800-424-9300

300 Frankfort Road
Monaca, PA 15061
412-774-1020

Fourth Street
Palmerton, PA 18071
215-826-8692

TRADE NAME AND SYNONYMS: PC-16, 21, 25, 31, 35, 40

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: 04/12/91

SECTION II - INGREDIENTS

<u>MATERIAL</u>	<u>CAS NO</u>	<u>%</u>
<u>ZINC OXIDE</u>	1314-13-2	99.6
<u>LEAD</u>	7439-92-1	.002
<u>CADMIUM</u>	7440-43-9	.01

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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BOILING POINT (760 MM HG): N/A

MELTING POINT: 3587⁰ 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 20⁰ C: N/A

APPEARANCE AND ODOR: White powder with no odcr. (P and G suffix mean pellets or granular)

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): N/A

NFPA FIRE RATING

FLAMMABLE LIMITS: LEL: N/A
UEL: N/AHEALTH 0
FLAMMABILITY 0
REACTIVITY 0

EXTINGUISHING MEDIA: None

SPECIAL FIRE FIGHTING PROCEDURES: Non-flammable

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION V - HEALTH HAZARD DATA

MATERIAL	FORM	OSHA - PEL		ACGIH - TLV	
		TWA mg/M3	STEL mg/M3	TWA mg/M3	STEL mg/M3
ZINC OXIDE	Total Dust	10	--	10	--
	Respirable	5	--	--	--

ROUTES OF ENTRY

PRIMARY: Inhalation

SECONDARY: Ingestion

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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 EXPOSURE:

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
 Stable

CONDITIONS TO AVOID: None

INCOMPATIBILITY (MATERIALS TO AVOID): None known.

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: May occur
 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, avoid excessive dusting.

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.

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SECTION VIII - SPECIAL PROTECTION INFORMATION

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

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 hygiene when working in areas where this material is used.

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