# ZINC NACIONAL, S.A. **MATERIAL SAFETY DATA SHEET**



PRODUCT IDENTIFICATION SECTION 1

1) PRODUCT NAME:

ZINC OXIDE OXZINAL 802

2) EMERGENCY PHONE NO. :

011 (52)(818) 343-85-60 & (618) 342-97-13 8) NFPA ACUTE HAZARD RATING:

3) CHEMICAL NAME:

WHITE

HEALTH:

FLAMMABILITY: REACTIVITY:

4) CHEMICAL FAMILY:

ZINC COMPOUNDS

D

0

5) CHEMICAL FORMULA:

ZnO

DEGREE OF HAZARD:

O = MINIMUM HAZARD 1 a SLIGHT HAZARD

6) MANUFACTURER'S NAME:

ZINC NACIONAL, S.A.

2 = MODERATE HAZARD 3 - SERIOUS HAZARD

7) MANUFACTURER'S ADRESS:

SERAFIN PEÑA #038 SUR

4 - SEVERE HAZARD

MEXICO, 64000

9) DATE PREPARED

January, 1st 2011

MONTERREY, N.L.

CHEMICAL COMPOSITION

SECTION 2

CADMIUM

CKEWICAL NAME ZINC OXIDE

CAR NO 1314-13-2 7439-02-1

DERCEM 99.60 0.003 0.001

7440-43-9 LEAD AND CADMIUM ARE INHERENT IN THE MANUFACTURE OF ZINC OXIDE AND ARE NOT PHYSICALLY ADDED IN ITS MANUFACTURE.

HAZARDOUS INGREDIENTS AND IDENTITY INFORMATION

OSHA

PEL

ma/m

SECTION 3

MATERIAL

FORM

ZINC OXIDE

EXPOSURE CRITERIAS

ACGIH REI CE TLV mg/n 15 mg/n mg/m3 10

ZINC OXIDE TOTAL DUST

RESPIRABLE FRACTION

**PHYSICAL DATA** 

SECTION 4

1) APPEARANCE / ODOR: 2) PHYSICAL STATE: 3) BOILING POINT:

WHITE SOLID 1.975 °C ODORLESS POWCER 8) VAPOR PRESSURE (mm/lig): 9) VAPOR DENSITY (AIR-1): 10) EVAPORATION RATE: 11) PERCENT VOLATILES:

N/A N/A

4) MELTING / FREEZING POINT: 5) SPECIFIC GRAVITY (WATER=1): 5.607
6) pH (RECOMMENDED DISSOLUTIONS): 6.70

5.607 (20°C / 4°C)

7) SOLUBILITY IN WATER:

GR/100 GR. WATER AT 28C\* 3.5 X 10 4 (77%)

FIRE AND EXPLOSION HAZARD DATA

SECTION 6

FLASH POINT:

NOT COMBUSTIBLE

EXTINGUISHING MEDIA: FOAM, WATER, DRY CHEMICAL OR CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES: POISONOUS GASES ARE PRODUCED IN FIRE. WEAR FULL PROTECTIVE CLOTHING, SELF-CONTAINED BREATHING APPRARATUS OPERATED IN PRESSURE-DEMAND MODE.

UNUSUAL FIRE AND EXPLOSION HAZAR IN POWDER FORM, ZINC OXIDE IS A MODERATE FIRE AND EXPLOSION HAZARD. WILL ALSO BURN VIGOROUSLY ON CONTACT WITH FLAME OR BY CHEMICAL REACTION.

PRODUCT NAME:

REACTIVITY DATA

ZINC OXIDE

OXZINAL. 802

SECTION 8

1) THERMAL STABILITY: 2) CONDITIONS TO AVOID:

ZING OXIDE IS STABLE IN CLOSED CONTAINERS AT FROM TEMPERATURE UNDER ROUTINE CONDITIONS OF STORAGE AND HANDLING. IT CAN ASSORB CARBON DIOXIDE FROM AIR TO FORM ZINC CARBONATE.

3) HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: N/A

4) HAZARDOUS POLYMERIZATION: 5) INCOMPATIBILITY (MATERIALS TO AVOID):

MINERAL ACIDS, SULFUR, CHLORINATED HYDROCARBONS OR MAGNESIUM (WHEN HEATED).

6) CORROSIVE ACTION ON MATERIALS :

#### **HEALTH HAZARD DATA**

SECTION 7

1) EYE AND SKIN CONTACT: 2) INHALATION:

3) INGESTION:

WASH SKIN AREA WITH SOAP (DO NOT USE DETERGENT) AND WATER, MAY CAUSE IRRITATION.
BED REST AND ASPIRIN (SYMPTOMS USUALLY DISAPPEAR WITHIN 24 HOURS), MAY IRRITATE THE
RESPIRATORY TRACT. MAY INCREASE THE INCIDENCE OF UPPER RESPIRATORY INFECTIONS. ZINC OXIDE IS POORLY ABSORBED THROUGH THE DIGESTIVE TRACT, INGESTION MAY CAUSE GASTRITIS

DUE TO THE FORMATION OF ZINC CHLORIDE IN REACTION TO STOMACH ACIDS.

4) EMERGENCY AND FIRST AID PROCEDURES:

FOR <u>INHALATION</u> REMOVE TO FRESH AIR AND SEEK MEDICAL ATTENTION FOR ANY BIREATHING DIFFICULTY. <u>SKIN CONTACT</u>: WASH WITH SOAP AND WATER. <u>EYE CONTACT</u>: FLUSH EYES IMMEDIATLEY WITH WATER FOR AT LEAST 15 MIN. <u>IF INGESTED</u>, INDUCE VOMITING IMMEDIATELY BY GIVING TWO GLASSES OF WATER AND STICKING FINGER DOWN THROAT: NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IN ALL CASES CONSULT PHYSICIAN FOR MEDICAL ATTENTION

#### PRECAUTIONS FOR SAFE HANDLING AND USE

SECTION B

1) MATERIAL RELEASE OR SPILL:

2) WASTE DISPOSAL METHOD:

3) HANDLING AND STORING:

4) PRECAUTIONARY LABELING:

VENTILATE AREA, CLEAN UP-PERSONNEL REQUIRE RESPIRATORY PROTECTION, COLLECT POWDER MATERIALS AND DEPOSIT IN SEALED DRUMS, VACUM OR SWEEP REMAINING MATERIAL (DON'T DRY SWEEP).

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 CERCIA, TSCA, SARA AND/OR RCRA REGULATIONS. PROTECT BAGS FROM PHYSICAL DAMAGE. STORE IN DRY AREAS, AVOID CONTACT IN STORAGE WITH

INCOMPATIBLE MATERIALS.

LIMIT EXPOSURE OF PERSONNEL, IF POSSIBLE, PRECLUDE FROM EXPOSURE THOSE INDIVIDUALS WITH PULMONARY AND CARDIAC DISEASES. USE ADEQUATE VENTILATION.

#### CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

SECTION 9

1) VENTILATION:

2) RESPIRATORY PROTECTION: 3) PROTECTIVE GLOVES:

4) FYE PROTECTION: 5) WORKING UNIFORM: GENERAL EXHAUST.

USE NIOSH APPROVED PARTICULATE RESPIRATOR IF DUST GENERATION OCCURS.

NATURAL RUBBER GLOVES.

SAFETY GOGGLES ARE RECOMENDED.

ALWAYS WASH HANDS THROUGHLY AFTER USING CHEMICAL; NEVER BRING FOOD, DRINK OR SMOKING MATERIALS INTO OF CHEMICALS. VICINITY

### REGULATORY INFORMATION

SECTION 10

THIS PRODUCT IS NOT CONSIDERED HAZARDOUS

## DISCLAIMER:

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