



# MATERIAL SAFETY DATA SHEET

**MSDS**

Upper India Group  
[info.uiil@uizincioxide.com](mailto:info.uiil@uizincioxide.com)

## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	ZINC OXIDE
CHEMICAL FAMILY	Non ferrous Metal Oxide.
CHEMICAL NAME	ZINC OXIDE.
FORMULA	ZnO

### 2. INFORMATION ON INGREDIEANTS

FLASH POINT	Non combustible
EXTINGUISHING MEDIA	Not applicable
SPECIAL FIRE FIGHTING PROCEDURES	None, material will not burn

### 3. HAZARDOUS IDENTIFICATION

ROUTE(S) OF ENTRY	PRIMARY - Inhalation SECONDARY - Ingestion
HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE	Inhalation of dust can cause irritation of the nose, throat and upper respiratory tract, coughing & choking. Zinc Oxide may also cause irritation to skin & eyes.
ACUTE INHALATION	Over exposure may produce symptoms known as metal fume fever, an acute self limiting condition. without recognized complications. Symptoms of metal fume fever include; chills, fever, muscular pain, nausea & vomiting
ACUTE INHALATION	Over exposure may produce symptoms known as metal fume fever, an acute self limiting condition

Upper India Inorganic Industries Ltd

Survey No.-241, Paikee, Chandasna Road, Village Chandasna, 1 KM Behind Torrent Pharmaceuticals Ltd, Chhatral Mehsana Highway Taluka Kadi, Distt.-Mehsana (Gujarat),  
 Mob: +91-8140271200, Tel: +91-2764-291117,

Upper India Smelting & Refinery Works

11-E, Industrial Area, Yamuna Nagar, Haryana – 135001  
 email: [info.uiiil@uizincioxide.com](mailto:info.uiiil@uizincioxide.com)

Mob: +91-82959 09532, +91-90992 83362, +91-92158 22418

CHRONIC INHALATION	Repeated & prolonged exposure has similar effects identified under acute inhalation.
ACUTE SKIN CONTACT	Dust may irritate or dry the skin.
CHRONIC SKIN CONTACT	Similar as above.
ACUTE EYE CONTACT	Dust may cause irritation to eyes.
CHRONIC EYE CONTACT	None determined.
ACUTE INGESTION	Non-toxic; although ingestion is unlikely, it can result in consequent pain, nausea, vomiting, thirst & diarrhea.
CHRONIC INGESTION	None determined.
<b>CARCINOGENICITY</b>	
NTP	No
LARC	No
OSHA	No

#### 4. MEDICAL CONDITIONS

AGGRAVATED BY EXPOSURE	Chronic exposure to Zinc Oxide may cause respiratory tract irritation with nasopharyngitis and laryngitis
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#### 5. FIRST AID MEASURE

FIRST AID FOR EYES	Flush with copious quantities of warm water for at least 15 minutes. Seek medical attention.
FIRST AID FOR SKIN	Wash with soap and water.
FIRST AID FOR INHALATION	Move to fresh air. If breathing difficult, assist breathing & seek medical attention.
FIRST AID FOR INGESTION	Consult physician.

## 6. FIRE FIGHTING MEASURES

FLASH POINT	Non combustible
EXTINGUISHING MEDIA	Not applicable
SPECIAL FIRE FIGHTING PROCEDURES	None, material will not burn

## 7. ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES	Sweep or vacuum spills into a container. Spilled area may be washed with water but do not wash into sewer.
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## 8. HANDLING & STORAGE

STORAGE TEMPERATURE (MIN/MAX)	Stable under normal conditions.
SHELF LIFE	Adequate in years if stored in a dry well ventilated Location
SPECIAL SENSITIVITY	None.

## 9. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION REQUIREMENTS	Safety goggles recommended
SKIN PROTECTION REQUIREMENTS	Gloves recommended
RESPIRATORY/VENTILATION REQUIREMENTS	Provide sufficient local ventilation if TVL likely to be exceeded. Wear OSHA approved respirator/dust mask
EXPOSURE LIMITS	Refer to Section 3.

## 10. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM	Fine Dry Powder
COLOR	White
ODOR	Odorless
BOILING POINT	Not applicable.
MELT POINT/FREEZE POINT	Sublimes at 1975 degree Celsius
pH	Neutral
SOLUBILITY IN WATER	4-6 ppm in distilled water at 25 degree Celsius
SPECIFIC GRAVITY	5.6
BULK DENSITY (Lb/Ft <sup>3</sup> )	47
% VOLATILE BY WEIGHT	Nil.
VAPOR PRESSURE	Not applicable
VAPOR DENSITY	Not applicable

## 11. REACTIVITY

STABILITY	Stable under normal conditions
HAZARDOUS POLYMERIZATION	Will not occur
INCOMPATIBILITIES	With water, Solvents & neutral oils
DECOMPOSITION PRODUCTS	None

## 12. TOXICOLOGICAL INFORMATION

Non Toxic in Nature

## 13. ECOLOGICAL INFORMATION

No data available.

## 14. DISPOSAL CONSIDERATIONS:

Check with all applicable local, regional, and national laws and regulations. Local regulations may be more stringent than regional or national regulations. Small amounts of this material may be suitable for sanitary sewer or trash disposal.

## 15. TRANSPORT INFORMATION

Not Required

## 16. WASTE DISPOSAL METHOD

Waste Zinc Oxide should be handled in a manner which complies with local, state, federal regulations.

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Upper India Inorganic Industries Ltd. assumes no legal responsibility for use or reliance upon these d

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