



Upper India Inorganic Industries Limited

MANUFACTURER OF ZINC OXIDE

An ISO 9001:2015 Certified Company

An ISO 14001-2015 Certified Company

Survey No. 241 Paikee, Village Chadasna, 1Km
behind Torrent Pharmaceuticals Ltd., Ahmedabad - Mehsana
Highway, Taluka - Kadi, District - Mehsana, Gujarat - 382715

Website: www.uizincoxide.com
Email: upperindia@uizincoxide.com
Phone No.: +91-27642-91117

MATERIAL SAFETY DATA SHEET

1. Identification of the Substance/ Mixture and of the Company/ Undertaking

1.1. Product Identifier

Chemical Name	: Zinc Oxide
Trade Name (Synonym)	: Zinc Oxide, Zink Oxid, Oxyde De Zinc, Ossido Di Zinco, Zinkoxide, Oxido Del Cinc, Tlended Cynku, Chinese White
Chemical Family	: Non-Ferrous Metal Oxide
Chemical Formula	: ZnO
CAS Number	: 1314-13-2
EINCES Number	: 215-222-5
REACH Registration	: 01-2119463881-32-190

1.2. Relevant identified uses of the substance/mixture and uses advised against in EEA member countries, use in restricted to only uses registered under REACH.

- Colouring agents, pigments
- Food/ Feedstuff additives
- Fuels and fuel additives
- Intermediates
- Laboratory Chemicals
- Lubricants and lubricant additives
- Plating agents and metal surface treating agents
- Process regulators
- Components in batteries
- Corrosion inhibitors and anti-scaling agents
- Fertilizers
- Pharmaceuticals substance
- Photosensitive agents and photo-chemicals
- Process regulators, used in vulcanization or polymerization processes
- Processing aid, not otherwise listed
- Semiconductors

1.3. Details of the supplier of the data sheet

Supplier Name	: Upper India Inorganic Industries Ltd.
Supplier Address	: Survey No. 241 Paikee, Village – Chadasna, 1 km behind Torrent Pharmaceuticals Ltd., Ahmedabad – Mehsana Highway, Taluka – Kadi, District – Mehsana, Gujarat – 382715, India
Contact Email	: systems.uuiil@uizincoxide.com
Contact Phone	: +91-99786-29532

1.4. Emergency Contact

Contact Phone	: +91-99786-29532
Contact Person	: Factory Manager



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2. Hazards Identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No 1272/2008)

Short term (acute) aquatic environment toxicity, Category 1 : H400 : Very toxic to aquatic life.
Long term (chronic) aquatic environment toxicity, Category 1 : H410 : Very toxic to aquatic life with long lasting effects.

2.2. Label Elements

Labelling (Regulation (EC) No 1272/2008)



Hazard pictograms :
Signal Word : Warning
Hazard Statement : H410 : Very toxic to aquatic life with long lasting effects.
Precautionary Statement : **Prevention**
P273 : Avoid release to the environment.
: **Response**
P391 : Collect Spillage.
: **Disposal**
P501 : Dispose of Contents/container to an approved waste disposal plant.

2.3. Other Hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. Chemical Composition of Ingredients

Chemical Name : Zinc Oxide
Trade Name (Synonym) : Zinc Oxide, Zink Oxid, Oxyde De Zinc, Ossido Di Zinco, Zinkoxide, Oxido Del Cinc, Tlended Cynku, Chinese White
Chemical Formula : ZnO
Molecular Weight : 81.38
Content (%) : 100%
CAS Number : 1314-13-2
EINCES Number : 215-222-5



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4. First Aid Measures

4.1. Description of First Aid Measures

Skin Contact	: Immediately wash with soap and water. Seek medical attention if irritation occurs.
Eye Contact	: Immediately flush eyes with plenty of water. Seek medical attention if irritation occurs.
Ingestion	: Drink plenty of water. Do not induce vomiting. Seek medical attention if irritation occurs or contact Poison Control
Inhalation	: Remove victim to fresh air. Seek medical attention if feeling unwell or experiencing respiratory distress.

4.2. Most important symptoms and effects, both acute and delayed

Acute	: Dry Cough, headache and/or throat irritation.
Delayed	: No delayed symptoms of effects expected.

4.3. Indication of any immediate medical attention and special treatment needed

Bad cough, headache and/or nausea. Move affected individual to fresh air.

5. Fire Fighting Measures

5.1. Extinguishing Media

Suitable Extinguishing Media	: Product is not flammable. Use an extinguishing media suitable for the surrounding fire.
Unsuitable Extinguishing Media	: None Known

5.2. Special hazards arising from the substance or mixture

Hazards from the substance	: Water contaminated with this material must be contained and prevented from being discharged to environment.
Hazardous thermal decomposition products	: Decomposition products may include Zinc Oxide fumes at high temperature.

5.3. Advice for fire-fighters

Special protective actions for fire-fighters	: No special measures required.
Special protective equipment for fire-fighters	: Suitable breathing apparatus.



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6. Accident Release Measures

6.1. Personal Precautions

Avoid breathing dust. Refer to section 7 and section 8 for advice on handling/storage and PPE.

6.2. Environmental Precautions

Prevent contamination of soil, drains and surface water. Inform relevant authorities of spill wherever required.

6.3. Spill Cleanup Recommendation

Avoid dry sweeping or other methods which raise dust. Vacuum or wet-sweep and place into a suitable closable and labelled container for disposal. Dispose of waste via licensed waste disposal contractor.

7. Handling and Storage

7.1. Precautions for Safe Handling

This product should be used in accordance with good industrial safety practices and industrial hygiene standards and all local, state and international regulations. Avoid creating airborne dust. Ensure adequate exhaust ventilation. Workers who handle material should wear gloves and thoroughly wash hands/forearms after exposure. See Section 8.2 if exposure exceeds limits.

7.2. Conditions for Safe Storage/Instabilities

This product should be stored in accordance with all local, state and international regulations. Store under ambient conditions and keep packaging free from high moisture areas in a well-ventilated space sealed tightly in the original containers. Once original containers are opened, all product must be used or remaining product must be placed in tightly sealed containers. Protect containers from damage and repair if damage occurs. If product is shipped in IBC bulk packaging, the inner plastic liner may be closed tightly and be considered a closed container. Use all product within 1 year of shipping date.

8. Exposure Controls/ Personal Protection

8.1. Control Parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006 :

Substance Name	End Use	Routes of Exposure	Potential Health Effects	Value
Zinc Oxide	Workers	Inhalation	Long-term exposure, Systematic effects	5 mg/m ³
	Workers	Inhalation	Long-term exposure, Local effects	0.5 mg/m ³
	Workers	Dermal	Long-term exposure, Systematic effects	83 mg/m ³
	Consumers	Inhalation	Long-term exposure, Systematic effects	2.5 mg/m ³
	Consumers	Dermal	Long-term exposure, Systematic effects	83 mg/m ³
	Consumers	Oral	Long-term exposure, Systematic effects	0.83 mg/m ³



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Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006 :

Substance Name	Environmental Compartment	Value
Zinc Oxide	Fresh Water	0.0206 mg/l
	Sea Water	0.0061 mg/l
	Sewage Treatment Plant	0.1 mg/l
	Fresh Water Sediment	117.8 mg/kg dry weight
	Sea Sediment	56.5 mg/kg dry weight
	Soil	35.6 mg/kg dry weight

8.2.Exposure Controls

Respiratory Protection	: Avoid creating dust. If exposure levels exceed limits, respiratory protection approved for the work being performed must be worn.
Hand Protection	: Always wear glove approved for the work being performed when handling Zinc Oxide
Skin Protection	: Wear normal chemical work clothing.
Eye Protection	: Always wear approved protective eyewear if there is a potential for dust being created while handling the material.
General Protective Hygiene Measures	: Use local exhaust ventilation to pro-actively reduce dust levels.

9. Physical and Chemical Exposure Controls/ Personal Protection

• Appearance	: White, cream or yellow
• Typical Particle Size	: d50 typically 1 um
• Flammability Limits	: Zinc Oxide is not flammable
• Explosive Limits	: Zinc Oxide is not explosive
• Odor	: Odorless
• Vapour Pressure	: @ 1500 C = 12 mm HG
• Odor Threshold	: Odorless
• Vapour Density	: 5.6 g/cm ³
• pH	: Neutral
• Relative Density	: Varies
• Melting Point	: 1975 °C
• Solubility in Water	: 2.9 mg/L
• Boiling Point	: N/A
• Flash Point	: Not Flammable
• Evaporation Rate	: N/A
• Specific Gravity	: 5.68
• Molecular Weight	: 81.38
• Suggested Solvents	: Acids and bases
• Fire Qualities	: Will not burn
• Explosive Qualities	: Not Explosive
• Volatile	: 0.3% Nominal



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10. Stability and Reactivity

Reactivity	: This product is stable under normal and dry conditions.
Chemical Stability	: This product is stable.
Possibility of Hazardous reactions	: None.
Conditions to avoid or incompatible materials	: Heated Magnesium. Chlorinated rubbers above 215°C.
Hazardous decomposition products	: Potential for Zinc Oxide fumes at elevated temperatures.

11. Toxicological Information

11.1. Information on Toxicological Effects

Routes of Entry	: Oral, Inhalation
Acute Oral Toxicity	: LD50 (Rat, male and female): > 5.000 mg/kg
Acute Inhalation Toxicity	: LC50 (Rat, male and female): > 5.7 mg/l
Acute Dermal Toxicity	: LD50 (Rat, male and female): > 2.000 mg/kg
Serious Eye Damage/ Eye Irritation	: No eye irritation observed
Mutagenicity	: No Data available
Carcinogenicity	: No Data available
Reproductive Toxicity	: No Data available
Aspiration Hazard	: No Data available

11.2. Acute Exposure Symptoms

Eye Contact	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
Inhalation	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the respiratory tract.
Skin Contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Serious Eye Damage/ Eye Irritation	: No known significant effects or critical hazards.

12. Ecological Information

12.1. Toxicity

Toxicity to fish LC50 – *Oncorhynchus mykiss* (rainbow trout) – 1.1 mg/l – 96 h.
Toxicity to daphnia and other aquatic invertebrates EC50-Daphnia magna (Water Flea)-0.098 mg/l-48 h.
Acute EC50-Algae *Selenastrum Capricornutum*-0.17 mg/l-72 h.



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12.2. Persistence and degradability

Not rapidly degradable.

12.3. Bio accumulative potential

No evidence to indicate significant bioaccumulative potential.

12.4. Mobility in soil

No evidence to indicate significant mobility in soil.

12.5. Results of PBT and vPvB assessment

Zinc Oxide is not persistent, bioaccumulative and toxic (PBT) and very persistent and very bioaccumulative (vPvB).

12.6. Other adverse effects

None.

13. Disposal Considerations

13.1. Waste treatment methods

Product

Generation of product waste should be minimized wherever possible. Disposal of product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional or local authority requirements. Dispose of surplus and non-recyclable products via licensed waste disposal contractor. Waste should not be released into sewer system unless regulations permit such release.

Containers/ Packaging

Generation of packaging waste should be minimized wherever possible. Waste packaging should be recycled when possible. Incineration and/or landfill dumping should only be considered when recycling isn't feasible. Make sure to follow all local, state and international regulations when disposing packaging materials.



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14. Transport Information

	ADR/RID	IMDG	IATA
UN Number	UN3077	UN3077	UN3077
UN proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (ZINC OXIDE)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (ZINC OXIDE), MARINE POLLUTANT (ZINC OXIDE)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (ZINC OXIDE)
Transport Hazard Class(es)	 	 	 
	Hazard Identification Number : 90	Sea (IMO) : DG, MP	IATA Label : Miscellaneous
Transport Hazard Class	9	9	9
Packing Group	III	III	III
Environmental Hazards	Yes	Yes, Dangerous to the environment	Yes
Special precautions for users	No	No	Yes (see below)
Additional Information	Tunnel Code (E)		
IATA special precaution for users	IATA – Passenger Aircraft:		400kg (packing group 956)
	IATA – Cargo Aircraft:		400kg (packing group 956)

*The EU diamond for Dangerous to the Environment has a red border. A copy of this document may not be in colour resulting in the above border incorrectly being displayed in black.

15. Regulatory Information

15.1. Safety, health and environmental regulations/ legislation specific for the substance or mixture

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals And Precursors : Not applicable.

REACH – Candidate List of Substances of Very High Concern for Authorization (Article 59) : This product does not contain substances of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 57).

REACH – List of Substances subject to authorization (Annex XIV) : Not applicable.

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable.



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Regulation (EC) No 850/2004 : Not applicable.
on persistent organic
pollutants

Council Regulation (EC) No : Neither banned or restricted.
111/2005 laying down rules
for the monitoring of trade
between the Community
and third countries in
drug precursors

Regulation (EC) No 649/2012 : Not applicable.
of the European Parliament
and the Council concerning
the export and import of
dangerous chemicals

REACH – Restrictions on the : Not applicable.
manufacture, placing on the
market and use of certain
dangerous substances,
preparations and article
(Annex XVII)

Seveso III : Directive 2012/18/EU of the European Parliament and of the Council on the control of major accident hazards involving dangerous substances.

15.2. Chemical Safety Assessment

Not applicable

16. Other Information

Full text of H-Statements

H400 : Very toxic to aquatic life
H410 : Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard
IATA : International Air Transport Association
IMDG : International Maritime Dangerous Goods
PBT : Persistent, Bioaccumulative and Toxic
vPvB : Very Persistent and Very Bioaccumulative



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Further Information

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe in terms of their safety requirements. The given details do not imply any guarantee concerning the composition, properties or performance.