

Material Safety Data Sheet

Zinc(II)oxide

Revision Date: 11-24/2006

Date Issued: 11-24/2006

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name Zinc(II)oxide
Product code NO-0011-HP
Supplier IoLiTec
Ionic Liquids Technologies GmbH & Co KG
Ferdinand-Porsche-Straße 5/1
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Germany
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2 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name Zinc(II)oxide, 99.5 %
CAS No. 1314-13-2
Empirical Formula ZnO
Molecular weight 81.39 amu

3 HAZARDS IDENTIFICATION

Potential health effects

Eyes May cause eye irritation.
Skin May cause skin irritation. May be harmful if absorbed through the skin.
Ingestion May cause irritation of the digestive tract. May be harmful if swallowed.

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Inhalation

May cause respiratory tract irritation. May be harmful if inhaled.

4 FIRST AID MEASURES

General

Contaminated clothing should be removed and washed before being reused.

Inhalation

Remove from exposure and move to fresh air immediately. Get medical aid.

Ingestion

Get medical aid. Wash mouth out with water.

Skin

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Eyes

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

5 FIRE FIGHTING MEASURES

General Information

Substance is noncombustible

Extinguishing Media

Substance is noncombustible; use agent most appropriate to extinguish surrounding fire

6 ACCIDENTAL RELEASE MEASURES

General Information

Use proper personal protective equipment as indicated in Section 8

Spills/Leaks

Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Do not let this chemical enter the environment

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7 HANDLING AND STORAGE

Handling

Minimize dust generation and accumulation.
Avoid breathing dust, vapor, mist, or gas.
Avoid contact with skin and eyes. Avoid ingestion and inhalation.

Storage

Store in a cool, dry place. Store in a tightly closed container

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls

Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

United States OSHA: 5 mg/m³ TWA (fume); 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction); Belgium - TWA: 10 mg/m³ VLE (dust); 5 mg/m³ VLE (fumes) Belgium - STEL: 10 mg/m³ VLE (fumes); France - VME: 5 mg/m³ VME (fume); 10 mg/m³ VME (dust); Germany: 5 mg/m³ TWA (respirable fraction, smoke); Japan: 1 mg/m³ OEL (respirable dust); 4 mg/m³ OEL (total dust); Malaysia: 5 mg/m³ TWA (fume); 10 mg/m³ TWA (dust); Netherlands: 5 mg/m³ MAC (smoke) Russia: 0.5 mg/m³ TWA (aerosol); Spain: 5 mg/m³ VLA-ED (vapor); 10 mg/m³ VLA-ED (dust) Spain: 10 mg/m³ VLA-EC (fume)

Personal Protective Equipment

Eyes

Wear chemical splash goggles.

Skin

Wear appropriate protective gloves to prevent skin exposure.

Clothing

Wear appropriate protective clothing to prevent skin exposure

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Respirators

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid
Color	white
Odor/taste	No characteristic odor.
Melting Point	1975 °C
Boiling Point	N/A

10 STABILITY AND REACTIVITY

Chemical Stability	Stable under normal temperatures and pressures.
Conditions to Avoid	Incompatible materials, dust generation.
Incompatibilities with Other Materials	Strong oxidizing agents, magnesium, chlorinated rubber, zinc chloride, hydrogen fluoride.
Hazardous Decomposition Products	Not available Hazardous Polymerization Will not occur.

11 TOXICOLOGICAL INFORMATION

Ingestion	Harmful if swallowed.
Skin	May cause irritation.
Eyes	May cause irritation.

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12 ECOLOGICAL INFORMATION

Environmental hazards Do not empty into drains.

13 DISPOSAL CONSIDERATIONS

Disposal method Contact specialist disposal companies.
Dispose of in accordance with Local Authority requirements. Recover and reclaim or recycle, if practical.

14 TRANSPORT INFORMATION

General Not classified as dangerous for transport purposes.

UN No. 0

Road transport notes Not classified as dangerous for road transport.

Rail transport notes Not classified as dangerous for rail transport.

Sea transport notes Not classified as dangerous for sea transport.

Air transport notes Not classified as dangerous for air transport.

15 REGULATORY INFORMATION

Hazard Symbols N

Risk Phrases

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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Safety Phrases

S 60 This material and its container must be disposed of as hazardous waste.

16 OTHER INFORMATION

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