

Material Safety Data Sheet

Zinc(II)oxide

Revision Date: 01/12/2010

Date Issued: 11/24/2006

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

Product name	Zinc(II)oxide
Product code	NO-0039-HP
Supplier	IoLiTec Ionic Liquids Technologies GmbH Salzstrasse 184 D-74076 Heilbronn Germany
Telephone	+49 (0)7131 - 898390
Fax	+49 (0)7131 - 89839109
Emergency telephone	+49 (0)179 – 5322578
Email	msds@iolitec.de

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (67/548/EEC or 1999/45/EC)

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

Classification (REGULATION (EC) No 1272/2008)

Acute aquatic toxicity (Category 1)

Chronic aquatic toxicity (Category 1)

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2.2 Label elements

Labelling (67/548/EEC or 1999/45/EC)

Hazard description:

Label for supply



Dangerous for the environment

Information pertaining to particular dangers for man and environment

Risk phrases

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases

S60 This material and its container must be disposed of as hazardous waste.

S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Labelling (REGULATION (EC) No 1272/2008, GHS)

Hazard statements



Warning

H-phrases

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P-phrases

P273 Avoid release to the environment.

P501 Dispose of contents/ container to an approved waste disposal plant.

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3 COMPOSITION/INFORMATION ON INGREDIENTS

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

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

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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

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

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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

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

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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.

12 ECOLOGICAL INFORMATION

Environmental hazards	Do not empty into drains.
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13 DISPOSAL CONSIDERATIONS

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

In accordance with local and national regulations.

16 OTHER INFORMATION

DISCLAIMER

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