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## SAFETY DATA SHEET

### ZINC OXIDE

According to Regulation (EC) No:1907/2006

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

**PRODUCT NAME** ZINC OXIDE  
**CAS-No.** 1314-13-2  
**EU INDEX NO.** 030-013-00-7  
**EC No.** 215-222-5

**APPLICATION** Dye, Ceramic and Glass ,Textile ,Metal coating, Pharmaceutical and Cosmetic ,Tire-Rubber

#### **2 HAZARDS IDENTIFICATION**

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

**CLASSIFICATION (1999/45)** N;R50/53.

##### **ENVIRONMENT**

This substance causes risk of hazardous effects to the environment.

##### **HUMAN HEALTH**

Dust may irritate the eyes and the respiratory system.

#### **3 COMPOSITION/ INFORMATION ON INGREDIENTS**

Name	EC No.	CAS-No.	Content	Classification (67/548)
ZINC OXIDE	215-222-5	1314-13-2	99,7-99,9%	N;R50/53

The Full Text for all R-Phrases are Displayed in Section 16

**EU INDEX NO.** 030-013-00-7

**EC No.** 215-222-5

**GROSS FORMULA** ZnO

**CAS-No.** 1314-13-2

##### **COMPOSITION COMMENTS**

The Data Shown is in accordance with the latest EC Directives.

#### **4 FIRST-AID MEASURES**

##### **INHALATION**

Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

##### **INGESTION**

Immediately rinse mouth and provide fresh air. Get medical attention if any discomfort continues.



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**SKIN CONTACT**

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

**EYE CONTACT**

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

**5 FIRE-FIGHTING MEASURES****EXTINGUISHING MEDIA**

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

**SPECIAL FIRE FIGHTING PROCEDURES**

Avoid breathing fire vapours. Clear fire area of all non-emergency personnel. Keep run-off water out of sewers and water sources. Dike for water control.

**PROTECTIVE MEASURES IN FIRE**

Face mask, protective gloves and safety helmet. Use protective equipment appropriate for surrounding materials.

**6 ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS**

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of dust. Avoid contact with eyes.

**ENVIRONMENTAL PRECAUTIONS**

Do not discharge into drains, water courses or onto the ground. Do not allow any environmental contamination. Do not discharge into the surface waters/groundwater.

**SPILL CLEAN UP METHODS**

Avoid generation and spreading of dust. Shovel into dry containers. Cover and move the containers. Flush the area with water. Do not contaminate water sources or sewer. Small Spillages: Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into closed container.

**7 HANDLING AND STORAGE****USAGE PRECAUTIONS**

Avoid inhalation of dust and contact with skin and eyes. Avoid handling which leads to dust formation. Provide good ventilation. Do not puncture the packaging.

**USAGE DESCRIPTION**

Shelf life : 2 years.

**STORAGE PRECAUTIONS**

Store in tightly closed original container in a dry and cool place. Keep away from food, drink and animal feeding stuffs.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION****PROTECTIVE EQUIPMENT****PROCESS CONDITIONS**

Provide eyewash station.

**ENGINEERING MEASURES**

Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of dust.

**RESPIRATORY EQUIPMENT**

No specific recommendation made, but protection against nuisance dust must be used when the general level exceeds 10 mg/m<sup>3</sup>.

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**HAND PROTECTION**

For prolonged or repeated skin contact use suitable protective gloves.

**EYE PROTECTION**

Wear approved safety goggles.

**HYGIENE MEASURES**

Wash hands and face after contact with dust before eating, drinking and using the toilet. Wash respiratory tract if it becomes contaminated.



Wash your hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Powder, dust
COLOUR	White
ODOUR	Odourless
SOLUBILITY	Soluble in water.
MELTING POINT	1975 (+)(-) 25
SOLUBILITY VALUE	~ 0.0016 g/l (20°C, H <sub>2</sub> O)
RELATIVE DENSITY	0.5 - 0.7 kg/l

## 10 STABILITY AND REACTIVITY

### STABILITY

Stable under normal temperature conditions and recommended use.

### CONDITIONS TO AVOID

Avoid excessive heat for prolonged periods of time.

### MATERIALS TO AVOID

No incompatible groups noted.

### HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

## 11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 >5000 mg/kg (oral - rat)

TOXIC CONC. - LC 50 2.5 mg/l (inhalation - mouse)

### INHALATION

Dust in high concentrations may irritate the respiratory system.

### INGESTION

No harmful effects expected in amounts likely to be ingested by accident.

### SKIN CONTACT

Skin irritation is not anticipated when used normally. No specific health warnings noted.

### EYE CONTACT

May irritate eyes.

## 12 ECOLOGICAL INFORMATION

### ECOTOXICITY

The product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

### BIOACCUMULATION

No data available on bioaccumulation.

### DEGRADABILITY

There are no data on the degradability of this product.

### ACUTE FISH TOXICITY

Very toxic to aquatic organisms.

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## 13 DISPOSAL CONSIDERATIONS

### GENERAL INFORMATION

Waste is classified as hazardous waste. The packaging must be empty.

### DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements. Do not allow runoff to sewer, waterway or ground. Do not re-use empty containers.

## 14 TRANSPORT INFORMATION





UK ROAD CLASS	9	UK ROAD PACK GR.	III
PROPER SHIPPING NAME	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.		
UN NO. ROAD	3077	ADR CLASS	Class 9: Miscellaneous dangerous substances and articles.
ADR CLASS NO.	9	TUNNEL RESTRICTION CODE	(E)
ADR PACK GROUP	III	ADR LABEL NO.	9
HAZARD No. (ADR)	90	CEPIC TEC(R) NO.	90GM7-III
HAZCHEM CODE	2Z	RID PACK GROUP	III
RID CLASS NO.	9	IMDG CLASS	9
UN NO. SEA	3077	EMS	F-A, S-F
IMDG PACK GR.	III	AIR CLASS	9
UN NO. AIR	3077		
AIR PACK GR.	III		

**16 REGULATORY INFORMATION****LABELLING**

Dangerous for the environment

**RISK PHRASES**

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

**SAFETY PHRASES**

S57 Use appropriate containment to avoid environmental contamination.  
 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.

**STATUTORY INSTRUMENTS**

Chemicals (Hazard Information and Packaging) Regulations.

**APPROVED CODE OF PRACTICE**

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

**GUIDANCE NOTES**

Workplaces Exposure Limits EH40. CHIP for everyone HSG(108).

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**16 OTHER INFORMATION****INFORMATION SOURCES**

This SDS is prepared based on the information received from the product owner.

**ISSUED BY**

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**REVISION COMMENTS**

The new arrangement was made in the section 1, 4, 5, 6, 7, 8, 10, 11, 12, 13, 15.

REVISION DATE 04.01.2011

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DATE 22.04.2010

**RISK PHRASES IN FULL**

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



**DISCLAIMER**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.