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SAFETY DATA SHEET

ZINC OXIDE

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

PRODUCT NAME	ZINC OXIDE
CHEMICAL NAME	ZINC OXIDE
USE	Accelerator activator,pigment and reinforcing agent in rubber , ointments, pigment and moldgrowth inhibitor in paints, UV adsorber in plastic , floor tile , glass , zinc salts , feed additive , dietary , seed treatment , cosmetics.

2. HAZARD IDENTIFICATION

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

Aquatic Acute 1 : H400

Aquatic Chronic 1 : H410

Classification according to Directive 67/548/EEC (DSD)

N ; R50-53

GHS PICTOGRAM



SIGNAL WORD

WARNING

HAZARD STATEMENTS

H400 VERY TOXIC TO AQUATIC LIFE

H410 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS NO.</u>	<u>EC NO.</u>	<u>Weight</u>
ZnO	1314-13-2	215-222-5	> 99.5%
Pb	7439-92-1	231-100-4	< 0.01 %
Fe	7439-89-6	-	< 0.008 %
Cd	7440-43-9	231-152-8	< 0.002 %

4. FIRST AID MEASURES

Eye Contact	Wash thoroughly with running water. Get medical advice if irritation develops.
Skin Contact	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. Do not use mouth-to-mouth resuscitation.
Ingestion	Never give anything by mouth to an unconscious person. Get medical aid. Do not induce vomiting, if conscious and alert. Rinse mouth and drink 2-4 cupfuls of milk or water.

5. FIRE FIGHTING MEASURES

Flash Point	Not Applicable
Autoignition Temperature	Not Applicable
Extinguishing Media	Use any means suitable for extinguishing surrounding fire.
Special Exposure Hazards	Thermal decomposition produce highly toxic fumes.
Special Protective Equipment	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal Precaution	Wear appropriate precaution to minimize direct contact with skin or eyes and prevent inhalation of dust.
Spill Procedures	Sweep up and remove. Store in sealed container for reuse or disposal. Clean disposal area.

7. HANDLING AND STORAGE

Handling	Keep containers tightly sealed. Keep away from heat and flames. Put on appropriate PPE. Avoid contact with eyes and skin. Wash hands before eating and drinking.
Storage	Store under dry and well ventilated conditions in sealed containers.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of handling.
Conditions to avoid	Keep away from heat and chlorinated rubber.
Materials to avoid	Heat magnesium, chlorinated rubber, acid and base
Hazardous decomposition product	Zinc oxide fumes.

11. TOXICOLOGICAL INFORMATION

Oral, mouse : LD50 (mg/kg)	7950 mg/kg
Dermal, rat : LD50 (mg/kg)	> 2000 mg/kg
Inhale, mouse : LC50	2500 mg/m ³
Draize test, rabbit, eye	500 mg/24 Hours Mild
Draize test, rabbit, skin	500 mg/24 Hours Mild

12. ECOLOGICAL INFORMATION

EC50, Algae-Selenastrum Capricornutum, 72 hours
EC50, Daphnia-Daphnia Magna, 48 hours
LC50, Fish-Lepomis Macrochirus, 96 hours

13. DISPOSAL CONSIDERATIONS

Disposal of waste method	Dispose in accordance with local regulations.
Contaminated Packaging	Keep waste packaging separate. Return or reuse or dispose according to local regulations.

14. TRANSPORT INFORMATION

UN NO	3077
UN Proper Shipping Name	Environmentally hazardous substance , solid , N.O.S - Zinc Oxide
UN Hazard Class	9
PACKAGING GROUP	III

15. REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

N

Risk Phrases:

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

Safety Phrases:

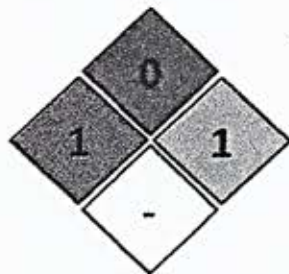
S 60 This material and its container must be disposed of as hazardous waste

S 61 Avoid release to the environment. Refer to special instructions / safety data sheets.

16. OTHER INFORMATION

Hazard Rating System

NFPA Rating



1. Globally Harmonized System of Classification and Labelling of Chemicals - GHS

<http://www.unece.org>

2. European chemical Substances Information System (ECB): ESIS, Annex VI

<http://ecb.jrc.ec.europa.eu/esis/>

<http://ecb.jrc.ec.europa.eu/classification-labelling/clp/ghs/search.php>

3. Perry 's Chemical Engineer ' Handbook , 6th Edition