



SAFETY DATA SHEET

ZINC OXIDE

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY:

PRODUCT NAME: ZINC OXIDE
PART No.: RM287
SUPPLIER: J M Loveridge plc
Southbrook Road, Southampton
Hampshire
SO15 1BH
Tel: 023 8022 2008
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2. COMPOSITION/INFORMATION ON INGREDIENTS:

EEC (EINECS) No. 215-222-5
CAS No.: 1314-13-2

3. HAZARDS IDENTIFICATION:

Not regarded as a health hazard under current legislation.

4. FIRST AID MEASURES:

GENERAL: IN ALL CASES OF DOUBT OR WHEN SYMPTOMS PERSIST, ALWAYS SEEK MEDICAL ATTENTION

INHALATION: Remove affected person from exposure, rest and keep warm. If recovery not rapid or complete seek medical attention.

INGESTION: DO NOT INDUCE VOMITING. In case of spontaneous vomiting, be sure that vomit can freely drain because of danger of suffocation. Only when conscious, rinse mouth with plenty of water and give plenty of water to drink - (approx 500ml). Obtain medical attention if adverse symptoms occur.

SKIN: Causes mechanical irritation. Wash affected area with plenty of soap and water. If irritation persists, seek medical attention.

EYES: Rinse immediately with plenty of water for at least 5 minutes while lifting the eye lids. Seek medical attention. Continue to rinse.

5. FIRE FIGHTING MEASURES:

EXTINGUISHING MEDIA: Use extinguishing media suitable against surrounding fire or the cause of fire.

HAZARDOUS COMBUSTION PRODUCTS:	At very high temperatures harmful zinc oxide (ZnO) fumes may be formed.
PROTECTIVE MEASURES IN FIRE:	Fire fighters should wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES:

PERSONAL PRECAUTION IN SPILL:	Avoid breathing dust.
PRECAUTIONS TO PROTECT ENVIRONMENT:	Prevent contamination of soil, drains and surface water.
SPILL CLEANUP METHODS:	Avoid dry sweeping or other methods which raise dust. Vacuum or wet-sweep and place into a suitable closable, labelled container for disposal. Wash the area clean with water and detergent, observing environmental requirements.

7. HANDLING AND STORAGE:

USAGE PRECAUTIONS:	The product should be used in accordance with good industrial safety practice and hygiene principles for handling and storing of chemicals. Avoid creating or raising dust. Ensure good ventilation and local exhaust extraction in work place.
STORAGE PRECAUTIONS:	In (original) container securely sealed to avoid dusting.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

INGREDIENT NAME:	CAS No.:	STD	LT EXP 8 Hrs	ST EXP 15 Min
ZINC OXIDE	1314-13-2	OES	5 mg/m ³	10 mg/m ³

INGREDIENT COMMENTS:	Above quoted exposure limits refer to ZnO fume, no specific OES assigned for dust, however ensure dust level does not exceed 10 mg.m ³ (8-hour TWA) of total inhalable dust or 4mg.m ³ (8-hour TWA) of respirable dust.
VENTILATION:	Provide adequate general and local exhaust ventilation.
RESPIRATORS:	If unable to control dust emissions below OES limits, an approved dust protection to P2 level of protection is recommended.
PROTECTIVE GLOVES:	Use protective gloves.
EYE PROTECTION:	Use eye protection if eye contact is likely.
OTHER PROTECTION:	Wear personal protective equipment appropriate to the quantity of material handled.
HYGIENIC WORK PRACTICES:	SKIN PROTECTION - apply barrier cream to hands and exposed skin. Regularly vacuum dust to minimise the potential of air-borne exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE:	White powder or granules.	
DENSITY/SPECIFIC GRAVITY (g/ml):	5.65	Temperature (°C):
BULK DENSITY:	300 - 700 kg/m ³	
SOLUBILITY DESCRIPTION:	Insoluble in water. Soluble in acids and ammonia.	

10. STABILITY AND REACTIVITY:

STABILITY: Stable under normal conditions of use.

HAZARDOUS DECOMP. PRODUCTS: Harmful zinc oxide fumes may be formed at very high temperatures.

11. TOXICOLOGICAL INFORMATION:

TOXIC DOSE - LD 50: 10000 mg/kg (oral rat)

INHALATION: High concentration of dust may cause transient irritation to the upper respiratory tract.

INGESTION: Ingestion of small amounts is unlikely to cause any adverse effects.

SKIN: Repeated or prolonged contact may cause mild irritation and/or drying (defatting) of skin.

EYES: Dust may cause mechanical irritation to eyes.

12. ECOLOGICAL INFORMATION:

LC 50, 96 HRS, FISH mg/l: > 100 mg/l

EC 50, 48 HRS, DAPHNIA, mg/l: 42 - 65 mg/l

MOBILITY: Insoluble in water. (can be separated from aqueous systems by sedimentation and/or filtration techniques. Predicted to have low mobility in soil.

13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHODS: Via authorised/licenced waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

14. TRANSPORT INFORMATION:

GENERAL: Not classified as hazardous for transport.

15. REGULATORY INFORMATION:

UK REGULATORY REFERENCES: This product is not classed as dangerous substance under the classification, packaging and labelling of dangerous substances regulations.

16. OTHER INFORMATION:

INFORMATION SOURCES: This product has been classified in accordance with CHIP3 regulations.

REVISION COMMENTS: Edition 01; Revised item(s):

ISSUED BY: MK

SDS No.: 543

DATE: 12/07/02

DISCLAIMER: The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this Data Sheet is to the best of JMLs knowledge correct at the time of publication. Customers should always satisfy themselves, that the product which they have selected is entirely suitable for their purpose under their conditions of use and in compliance with current regulations. For any further information, please contact the supplier.