

1. Product and Company Identification

www.rxmarine.com

Product Name Zinc Oxide USP
Part Number RXSOL-95-6592-025

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

Phone +91 22 20871200 - 1400
Fax +91 22 27612100 ::AOH :0091 9821214367
Email mail@rxmarine.com
Website www.rxmarine.com

2. Composition / Information on ingredients

www.rxmarine.com

Product name	Cas No	EC No	Weight	Formula
Zinc oxide	1314-13-2	215-222-5	81,39 g/mol	ZnO

3. Hazards Identification

www.rxmarine.com

Classification of the substance or mixture	Classification according to Regulation (EC) No 1272/2008 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410 For the full text of the H-Statements mentioned in this Section, see Section 16.
Hazard statement(s)	Very toxic to aquatic life with long lasting effects
Precautionary statement(s)	P273 Avoid release to the environment. P391 Collect spillage. P501 Dispose of contents/ container to an approved waste disposal plant.
Classification of the substance or mixture	No data available
Supplemental Hazard Statements	No data available
Other hazards	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

4. First Aid Measures

www.rxmarine.com

General advice	No data available
If inhaled	After inhalation fresh air.
Eye Contact	After eye contact: rinse out with plenty of water. Remove contact lenses.
Swallowed	After swallowing immediately make victim drink water (two glasses at most). Consult a physician. 4.2 Most important
Skin Contact	In case of skin contact Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately
Inhalation	No data available
Ingestion	No data available
Most important symptoms and effects, both acute and delay	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
Indication of any immediate medical attention and special treatment needed	No data available

5. Fire-fighting Measures

www.rxmarine.com

Flammability	No data available
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture	Zinc/zinc oxides
Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary
Protective Equipment	No data available
Specific Hazards Arising from the Chemical	No data available

6. Accidental Release Measures

www.rxmarine.com

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
Environmental Precaution	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
Reference to other sections	For disposal see section 13.

7. Handling and Storage

www.rxmarine.com

Precautions for safe handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.
Conditions for safe storage, including any incompatibilities	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Combustible Solids
Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. Exposure controls and personal protection

www.rxmarine.com

Exposure controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Engineering Control	No data available
Eye/face protection	Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Body Protection	Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Skin protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Respiratory protection	For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle r (US) or type ABEKP2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. Physical and chemical properties

www.rxmarine.com

Physical state	Powder
Colour	White
Odour	No data available
Odor Threshold	No data available
pH	No data available
Melting Point	No data available
Boiling Point	No data available
Flash Point	No data available
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Explosive limits	No data Available
Upper/lower flammability or explosive limits	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Vapour pressure	No data available
Viscosity	No data available
Relative Density	5.610 g/cm ³
Specific Gravity	No data available
Partition coefficient	No data available
Explosive properties	No data available
Solubility	No data available
Ignition temperature	No data available
Particle characteristics	No data available

10. Stability and reactivity

www.rxmarine.com

Reactivity	No data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No data available
Conditions to avoid	No data available
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Zinc/zinc oxides Other decomposition products - No data available In the event of fire: see section 5

11. Toxicological information

www.rxmarine.com

Acute toxicity	LD50 Oral - Mouse - 7,950 mg/kg(Zinc oxide) LC50 Inhalation - Mouse - 2,500 mg/m ³ (Zinc oxide)
Skin corrosion/irritation	Skin - Rabbit(Zinc oxide) Result: Mild skin irritation - 24 h
Serious eye damage/irritation	Eyes - Rabbit(Zinc oxide) Result: Mild eye irritation - 24 h Eyes - Rabbit(Zinc oxide) Result: Mild eye irritation - 24 h
Respiratory or skin sensitization	No data available(Zinc oxide)
Germ cell mutagenicity	Hamster(Zinc oxide) Embryo Unscheduled DNA synthesis Hamster(Zinc oxide) Embryo Morphological transformation. Hamster(Zinc oxide) Embryo Sister chromatid exchange (Zinc oxide) Guinea pig Unscheduled DNA synthesis

Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Additional Information	Zinc oxide dust or fume can irritate the respiratory tract. Prolonged skin contact. Exposure to high levels of dust or fume can cause metallic taste, malaise and nausea followed by fever and chills. Severe overexposure may result in, prolonged or repeated exposure can cause: Reversible liver enzyme abnormalities, Diarrhoea (Zinc oxide) To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. (Zinc oxide)

12. Ecological information

www.rxmarine.com

Persistence and degradability	No data available
Toxicity to fish	LC50 - <i>Oncorhynchus mykiss</i> (rainbow trout) - 1.1 mg/l - 96.0 h (Zinc oxide)
Toxicity to daphnia and other aquatic invertebrates	EC50 - <i>Daphnia magna</i> (Water flea) - 0.098 mg/l - 48 h (Zinc oxide)
Toxicity to algae	Static test NOEC - <i>Pseudokirchneriella subcapitata</i> (microalgae) - 0.024 mg/l - 72 h (OECD Test Guideline 201)
Products Biodegradation	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Other adverse effects	Very toxic to aquatic life.

13. Disposal considerations

www.rxmarine.com

Waste treatment methods	
Product	Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.
Contaminated packaging	Dispose of as unused product.

14. Transport information

www.rxmarine.com

UN number	ADR/RID:3077	IMDG:3077	IATA:3077
UN proper shipping name	ADR/RID:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide)	IMDG:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide)	IATA:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide)
Transport hazard class(es)	ADR/RID:9	IMDG: 9	IATA:9
Packaging group	ADR/RID:III	IMDG:III	IATA:III
Environmental hazards	ADR/RID:Yes	IMDG:NO	IATA:Yes
Special precautions for user	Tunnel restriction code (-)		
Further information	EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.		

15. Regulatory information

www.rxmarine.com

Safety, health and environmental regulations/legislation specific for This material safety data sheet complies with the requirements of

16. Other information

www.rxmarine.com

Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.

DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

No data available