

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Ultra-Sol™ 100Z

Application: Polishing Compound

Manufacturer Information: Corporate Offices:
Eminess Technologies, Inc.
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Tempe, AZ 85282

Manufacturing Offices:
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Monroe, NC 28110

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Mixture of: Water and abrasive

Component	CAS-No.	Hazard classification	Notes
Zirconium Oxide	1314-23-4	(AS DRY DUST) PEL: 5mg/m ³ TLV: 5mg/m ³ Non-hazardous as defined by the Dept of Transportation, nor is it a dangerous good as defined by ICAO for air transportation.	
Deionized Water	7732-18-5	n/a	

3. HAZARDS IDENTIFICATION

Emergency Overview: Not listed as a carcinogen by IARC, NTP, or OSHA. May cause slight irritation to skin and eyes.

Potential Health Effects

Eyes: Slightly irritating, high concentrations can cause conjunctivitis, not corrosive.

Skin: Not absorbed through skin. Prolonged or repeated contact may cause dermatitis.

Ingestion: May cause irritation of the digestive tract.

Inhalation: Spray mist or dry dust may cause congestion, coughing, granuloma in lungs. Prolonged inhalation or overexposure to dusts may cause irreversible lung damage.

4. FIRST-AID MEASURES

Eye Contact: In case of contact with eyes, rinse immediately with plenty of water for 15 minutes. If irritation persists, consult a physician.

Skin Contact: Wash affected area with a waterless hand cleaner and/or soap and water. If irritation persists, consult a physician.

Ingestion: If material is swallowed, get immediate medical attention or advice. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.

Inhalation: If inhaled, immediately remove the affected person to fresh air. Seek medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: n/a

Method Used: n/a

Upper Flammable Limit (UFL): n/a

Lower Flammable Limit (LFL): n/a

Auto Ignition: n/a

Flammability Classification: Non Flammable

Rate of Burning: n/a

General Fire Hazards: Product is non-combustible

Hazardous Combustion Products: Carbon dioxide (CO₂), carbon monoxide (CO),

Extinguishing Media: Dry chemical, foam, carbon dioxide (CO₂), water fog

Fire Fighting Equipment / Instructions: Firefighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Firefighters should avoid inhaling any combustion products.

6. ACCIDENTAL RELEASE MEASURES

Containment Procedures: Stop the flow of material, if this is without risk

Clean-Up Procedures: Wear appropriate protective equipment and clothing during clean-up. Absorb spill with inert material. Shovel material into appropriate container for disposal.

Evacuation Procedures: Isolate area. Keep unnecessary personnel away.

Special Procedures: No information available for the product.

7. HANDLING AND STORAGE

Handling Procedures: Avoid contact with skin and eyes. Observe good industrial hygiene practices and wash thoroughly after handling.

Technical Measures: Work practice should minimize contact.

Technical Precautions: Local exhaust is recommended.

Storage Procedures: Store in tightly closed original container in a cool, well-ventilated place away from incompatible materials. Keep from freezing.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering Controls: Ventilation should effectively remove and prevent buildup of any vapor or mist generated from the handling of this product.

Personal Protective Equipment (PPE)

Eyes/Face: Wear safety glasses, chemical goggles, or, a full face shield.

Skin: Use impervious gloves. Use of impervious apron and boots are recommended.

Respiratory: If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH / MSHA respiratory protection must be provided.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White

Boiling Point: 212°F (100°C)

Odor: None

Flash Point: n/a

pH: ~4

Solubility (H₂O): Dispersible

Physical State: Liquid

Viscosity: Medium

Melting Point: 32°F (0°C)

10. STABILITY AND REACTIVITY

Chemical Stability: This is a stable material.

Conditions to Avoid: None specific

Incompatibility: None specific

Hazardous Decomposition Products: None specific

11. TOXICOLOGICAL INFORMATION

Inhalation: Not relevant at normal room temperatures.

Skin Contact: Prolonged contact may cause redness and irritation.

Eye Contact: May cause temporary eye irritation.

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

12. ECOLOGICAL INFORMATION

Mobility: This product is water soluble and may spread in water systems.

Degradability: The degradability of the product has not been stated.

Ecotoxicity: The product is not expected to be hazardous to the environment.

13. DISPOSAL CONSIDERATIONS

US EPA Waste Number and Descriptions

General Product Information: Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

Component Waste Numbers: No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Waste Material: Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

Contaminated Packaging: Dispose of contaminated packaging as residue.

14. TRANSPORT INFORMATION

The product is not regulated as hazardous by the Dept. of Transportation or IATA.

15. REGULATORY INFORMATION

Precautionary Label: Do not freeze

16. OTHER INFORMATION

All statements, technical information and recommendations contained herein are based on tests and data which this company believes to be currently reliable, however, the accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto. This information is not intended as a license to operate under nor a recommendation to practice or infringe any patent of this company or others covering any process, composition or matter or use. Since the company shall have no control of the use of the product described herein, the company assumes no liability for loss or damage incurred from the proper or improper use of such product. The company assumes no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose.

This is the end of the MSDS for Ultra-Sol™ 100Z.
