

EnviroSpec
A Division of Hi-Tech Jetting Technologies, Inc.
751 MLK Highway Homerville, GA 31634
912-487-1778

MATERIAL SAFETY DATA SHEET

Emergency Tel. Number: Chemtrec (800) 424-9300

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I. PRODUCT IDENTIFICATION

PRODUCT NAME: GLASS DE-ETCH
PART NUMBER: ZPGDE

2.COMPOSITION INFORMATION ON INGREDIENTS

Component	CAS Registry #	wt. %	ACGIH(mg/m3)	OSHA PEL(mg/m3)
Rare Earth Oxides	68188-83-0	80-90	n.1.	n.1.
Cerium Oxide (RE3O4)	1345-13-7	60	n.1.	n.1.
Amorphous Silica	63231-67-4	3-6	6	10

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Due to the presence of carcinogenic materials, efforts should be made to avoid inhalation or ingestion. To avoid inhalation under dusty conditions, use a NIOSH/MSHA approved dust mask equipped with a filter for highly toxic particulates. To avoid ingestion, there should be no eating, drinking or smoking allowed in the workplace. Employees should wash hands thoroughly before eating, drinking or smoking.

Short-term effects of inhalation can include discomfort, coughing, nasal discharge and other symptoms similar to those of a bad cold. Drying of the mucous might also be experienced.

4. FIRST AID MEASURES

SYMPTOMS AND EFFECTS:

FIRST AID:

SKIN: Wash with soap and water.

EYE: Immediately wash (for 15 minutes) from eyes with large amounts of water, occasionally lifting upper and lower eye lids. If irritation occurs and persists, seek medical attention.

INGESTION: Give two glasses of water or milk and induce vomiting by having patient touch the back of his throat with his finger. Never make an unconscious person vomit. Get medical attention immediately.

INHALATION: Remove to fresh air.

5. FIRE - FIGHTING MEASURES

Suitable Extinguishing Media: Will not burn or explode. Non-flammable

Extinguishing Media Not to be Used for Safety Reasons:

Special Protective Equipment for Fire- fighters:

6. ACCIDENTAL RELEASE MEASURES

LEAKS AND SPILLS: Spilled material should be swept up or washed to a sewer system that is treated to remove suspended solids.

PERSONAL PROTECTION:

7. HANDLING AND STORAGE

HANDLING: No special precautions required. Fiber drums or plastic containers dependent on customer's requirements.

STORAGE: No special precautions required.

DISPOSAL: Landfill in accordance with local, state and federal regulations.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

PERSONAL PROTECTION

HAND

EYE

SKIN

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

ODOR: None

pH: 7-8

DENSITY (20°C): 0.67 grams/cc

SOLUBILITY: Insoluble

COLOR:

10. STABILITY AND REACTIVITY

STABILITY: Essentially inert

MATERIALS TO AVOID:

11. TOXICOLOGICAL INFORMATION

TOXICITY:

Tests for DOT Hazard Classification: Tested. NO classified as hazardous.

Tests for FDA approval for use in foods: Not applicable

Human Toxicology: These products contain .1 to .2% Thorium Oxide which is listed as a carcinogen by NTP. No specific toxicity ratings for cerium oxide (Ce₂O₃) are available in the standard references. In general, the toxicological properties of the compounds of both cerium and other lanthanide series members are similar to those of the compounds of aluminum. The primary route of exposure is inhalation.

12. ECOLOGICAL INFORMATION

Waste streams containing this product should be treated for suspended solids removal.

13. DISPOSAL CONSIDERATIONS

Landfill in accordance with local, state and federal regulations.

14. TRANSPORT INFORMATION

No special precautions required.

15. REGULATORY INFORMATION

NIOSH: No specific studies conducted on the rare earth compounds.
EPA: Contains chemical(s) listed on the SARA 313 Toxic Chemical List
USDA: Not applicable
FDA: Not applicable
DOT: Not classified as hazardous.

16. OTHER INFORMATION

Natural Thorium and Uranium are found in the raw material used for manufacturing Rare Earth products. To insure that the Rare Earth products are kept within the radiological standards, Thorium and Uranium compounds are kept below .25%.

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