



MATERIAL SAFETY DATA SHEET

I. COMPANY INFORMATION

Company Name: Glass Technology Inc
Address: 434 Turner Dr, Durango, Colorado USA 81303
Phone: (970) 247 9374
Date Prepared: 4/13/2009

II. COMPOSITION, INFORMATION ON INGREDIENTS

Product Name: Cerium Oxide Polishing Powder
Product Brand: "Diamond Fast"

Cerium Oxide (CeO₂) <60.5%
Lanthanum Oxide (La₂O₃) >13%
Lanthanum Fluoride (LaF₃) >20.5%
Silicon Dioxide (SiO₂) <2%
Molecular Weight: 172.12

III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY

Eyes: MAY CAUSE SLIGHT IRRITATION.

Skin: PROLONGED SKIN CONTACT MAY CAUSE SKIN IRRITATION AND/OR DERMATITIS.

Ingestion: MAY IRRITATE DIGESTIVE TRACT.

Inhalation: DUST IRRITATING TO RESPIRATORY TRACT.

IV. FIRST AID MEASURES

Eyes: RINSE IMMEDIATELY WITH PLENTY OF WATER, ALSO UNDER THE EYELIDS.
GET MEDICAL ATTENTION IF IRRITATION DEVELOPES.

Skin: WASH OFF IMMEDIATELY WITH SOAP AND PLENTY OF WATER. REMOVE
AND WASH CONTAMINATED CLOTHING BEFORE RE-USE. IF SYMPTOMS
PERSIST, CALL A PHYSICIAN.

Ingestion: DRINK PLENTY OF WATER. DO NOT INDUCE VOMITING WITHOUT
MEDICAL ADVICE. CONSULT A PHYSICIAN.

Inhalation: MOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF SYMPTOMS PERSIST, CALL A PHYSICIAN.

Other: NOTE TO PHYSICIAN:

TREAT SYMPTOMATICALLY. LANTHANIDES, BECAUSE OF THEIR HIGH DENSITY, CAN PRODUCE ABNORMALITIES ON CHEST X-RAY. LANTHANIDES, GENERALLY ARE NOT FELT TO BE FIBROGENIC AND THE LESIONS TYPICALLY HAVE LITTLE OR NO CLINICAL SIGNIFICANCE. HOWEVER, OCCASIONAL CASES OF PNEUMOCONIOSIS HAVE BEEN REPORTED.

V. FIRE FIGHTING MEASURES

Flash Point: NON COMBUSTIBLE

Test Method: N/A

Lower Flammability Limit: N/A

Upper Flammability Limit: N/A

Extinguishing Agents: USE EXTINGUISHING MEASURES THAT ARE APPROPRIATE TO LOCAL CIRCUMSTANCES AND THE SURROUNDING ENVIRONMENT.

Unusual Fire or Explosion: NONE KNOWN

VI. ACCIDENTAL RELEASE MEASURES

Containment/Cleanup: CLEAN UP PROMPTLY BY SCOOP OR VACUUM. WEAR PERSONAL PROTECTIVE EQUIPMENT. KEEP IN SUITABLE, CLOSED CONTAINERS FOR DISPOSAL

Other: PERSONAL PRECAUTIONS:

AVOID DUST FORMATION. EVACUATE AREA OF ALL UNNECESSARY PERSONNEL. AVOID CONTACT WITH SKIN, EYES AND CLOTHING. USE PERSONAL PROTECTIVE EQUIPMENT. ENVIRONMENTAL PRECAUTIONS: PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. DO NOT LET PRODUCT ENTER DRAINS. DO NOT FLUSH INTO SURFACE WATER OR SANITARY SEWER SYSTEMS.

VII. HANDLING AND STORAGE

Other: HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE. AVOID DUST FORMATION. AVOID CONTACT WITH SKIN, EYES AND CLOTHING. WASH HANDS THOROUGHLY BEFORE EATING, DRINKING OR SMOKING.

STORAGE: KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND WELL-VENTILATED PLACE.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: SAFETY GOGGLES WITH SIDE-SHIELDS.

Skin: LIGHTWEIGHT PROTECTIVE CLOTHING.

HAND PROTECTION: IMPERVIOUS GLOVES.

Respiratory: USE NIOSH APPROVED RESPIRATOR WHEN VENTILATION IS INADEQUATE.

Engineering: PROVIDE APPROPRIATE EXHAUST VENTILATION AT MACHINERY AND AT PLACES WHERE DUST OR FUMES CAN BE GENERATED.

Other: HYGIENE MEASURES: WASH CONTAMINATED CLOTHING BEFORE RE-USE.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: WHITE

Melting Point: >2,600°C

Ph: 7

Odor: NONE

Solubility in Water: INSOLUBLE

Physical State: SOLID

Form: FINE POWDER/ SUSPENSION TREATED

Density: 6.5

X. STABILITY AND REACTIVITY

Stability: STABLE AT NORMAL CONDITIONS

Hazardous Polymerization: WILL NOT OCCUR

Hazardous Decomposition

Products:

NONE REASONABLY FORESEEABLE. NONE UNDER NORMAL USE.

Incompatible Products: STRONG ACIDS

Conditions To Avoid: NONE KNOWN

XI. TOXICOLOGICAL INFORMATION

Acute Toxicology Data: NO DATA IS AVAILABLE ON THE PRODUCT ITSELF

XII. ECOLOGICAL INFORMATION

Environmental Fate and Distribution:

NO DATA IS AVAILABLE ON THE PRODUCT ITSELF.

Persistence and Degradation:

NO INFORMATION AVAILABLE.

XIII. DISPOSAL CONSIDERATIONS

Disposal Method: WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS. WHERE POSSIBLE RECYCLING IS PREFERRED TO DISPOSAL OR INCINERATION. THIS PRODUCT CONTAINS NATURALLY OCCURING RADIOACTIVE MATERIALS (NORM).CONSULT AND COMPLY WITH CURRENT REGULATIONS.

XIV. TRANSPORT INFORMATION

International regulations:

Land:

Rail/Road (RID/ADR): NOT RESTRICTED.

Sea (IMO/IMDG): NOT RESTRICTED.

Air (ICAO-IATA): NOT RESTRICTED.

XV. REGULATORY INFORMATION

NO INFORMATION AVAILABLE.

XVI. OTHER INFORMATION

WARRANTY INFORMATION

THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION.NO WARRANTY, EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.