



## Material Safety Data Sheet

Product Name: Cer-Optik Cerium Oxide  
MSDS Date: 5/18/2017

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### 1. PRODUCT AND COMPANY IDENTIFICATION

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Product Name: Cer-Optik Cerium Oxide  
Manufacturer: His Glassworks, Inc.  
2000 Riverside Drive, Suite 19  
Asheville, NC 28804  
800-914-7463  
Emergency Phone number: ChemTel, Inc.  
Toll Free: 800-255-3924  
International: +813-248-0585

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### 2. COMPOSITION AND INFORMATION ON INGREDIENTS

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Component	CAS#	Concentration
Cerium Oxide	1306-38-3	> 99.8%
Lanthanum Oxide	1312-81-8	< 0.1%
Praseodymium Oxide	12037-29-5	< 0.1%

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### 3. HAZARDS IDENTIFICATION

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Physical State: Powder  
Color: white to cream colored powder, solid  
Odor: odorless  
Hazard Summary: Dusts in high concentrations may cause skin, eye, and respiratory tract irritation.

#### Potential Health Effects

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**Revision Date 5/18/17**

Skin:	Non irritating. Skin absorption not likely
Eyes:	Slightly irritating. May cause foreign body irritation only.
Ingestion:	Low acute oral toxicity
Inhalation:	Low acute inhalation toxicity. May cause wheezing, upper respiratory tract irritation

**Carcinogenicity**

This product does not contain any ingredient designated by IARC, ACGIH, or OSHA as probable or suspected human carcinogens. Prolonged contact may cause chronic bronchitis.

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**4. FIRST AID MEASURES**

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Inhalation:	If respiratory irritation or distress occurs, remove victim to fresh air. Seek medical attention if respiratory irritation or distress continues.
Skin Contact:	In case of contact, wash with plenty of soap and water. Seek medical attention if irritation develops or persists.
Eye Contact:	Rinse particulate matter from eye. Seek medical attention if irritation develops or persists or if visual changes occur.
Ingestion:	If victim is conscious and alert, give 1–2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention. Do not leave victim unattended.

**Notes to Physician**

Treatment:	All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
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**5. FIRE-FIGHTING MEASURES**

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Flash Point:	Not applicable
Suitable extinguishing media:	Not combustible. Use extinguishing method suitable for surrounding fire.

Special protective equipment for fire-fighters: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

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## 6. ACCIDENTAL RELEASE MEASURES

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Evacuation Procedures and Safety: Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

Containment of Spill: Follow procedure described below under Cleanup and Disposal of Spill.

Cleanup and Disposal of Spill: Sweep or vacuum up and place in an appropriate closed container. (See Section 7: Handling and Storage).

Environmental and Regulatory Reporting: Do not flush to drain.

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## 7. HANDLING AND STORAGE

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Handling: Avoid direct or prolonged contact with skin and eyes.

Avoid breathing dust.

Dry powders can build static electricity charges when subjected to the friction of conveying, mixing, or sliding. Provide adequate precautions, such as electrical grounding, or inert atmospheres when material is used in the presence of flammable materials to prevent ignition.

When used for glass polishing, the suspension of polish becomes alkaline (pH>8.5) following the hydrolysis of the glass. It is strongly recommended that gloves and goggles be worn to prevent contact with skin and eyes under these conditions.

Storage: Store in closed containers.

Store in an area that is dry.

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## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

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**Revision Date 5/18/17**

**Introductory Remarks:** These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.

**Engineering measures:** Use with local exhaust ventilation.  
 Use wet processing methods to reduce dust generation

**Eye protection:** Do not wear contact lenses.  
 Wear safety glasses with side shields.

**Skin and body protection:** Wear gloves  
 Wear long sleeve work shirts

**Hygiene measures:** When using, do not eat or drink or smoke.

**Hygiene measures:** Wash hands before breaks and immediately after handling the product.  
 Keep work clothes separate.  
 Remove and wash contaminated clothing before re-use.  
 Do not swallow.  
 Avoid breathing dust.  
 Avoid contact with skin, and eyes.

**Exposure Guidelines**

particulates not otherwise regulated total dust

	<b>Type</b>	<b>Value</b>
OSHA	TWA	15mg/cu m
	STEL	

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Form:	solid powder
Color:	white to cream color
Odor:	odorless
pH:	not applicable
Specific Gravity:	6.8 at 25°C (77°F)
Water solubility:	insoluble
Melting point range:	2500°C (4532°F)
Boiling Point Average:	Not applicable
Vapor Pressure	Not applicable
Vapor Density:	Not applicable

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## 10. STABILITY AND REACTIVITY

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Chemical Stability:	This material is stable under normal handling and storage conditions described in Section 7.
Conditions to be Avoided:	dusting conditions.
Materials to avoid:	strong acids.
Hazardous decomposition products:	none known
Hazardous reactions:	Hazardous polymerisation does not occur. Stable under recommended storage conditions.

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## 11. TOXICOLOGICAL INFORMATION

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Acute oral toxicity:	LD50 rat Lethal dose 50% of test species, >5000mg/kg
Acute dermal toxicity:	LD50 rabbit Lethal dose 50% of test species >2000 mg/kg

**His Glassworks, Inc. - Cer-Optik Cerium Oxide MSDS Sheets**  
**Revision Date 5/18/17**

Acute inhalation toxicity:	LD50 rat lethal concentration 50% of test species, >5.05mg/l/hr
Skin irritation:	guinea pig Non-sensitizing
Eye irritation:	rabbit Slightly irritating

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## **12. ECOLOGICAL INFORMATION**

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Ecotoxicological Information:	NOEC- no effect concentration, >100mg/l/96hr, fish: Brachydanio rerio.
Chemical Fate Information:	No data found for product.

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## **13. DISPOSAL CONSIDERATIONS**

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Waste Disposal Method:	Chemical additions, processing, or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate, or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.
Container Handling and Disposal:	Any containers or equipment used should be decontaminated immediately after use.
EPA Hazardous Waste:	No.

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## **14. TRANSPORT INFORMATION**

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### **DOT Classification:**

Proper shipping name:	Not regulated
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## 15. REGULATORY INFORMATION

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### Inventory Status

United States	Y
Canada	Y
Europe	Y
Australia	Y
Japan	Y
South Korea	Y

Inventory Issues                      All functional components of this product are listed on the TSCA Inventory.

### SARA Title III Hazard Class

Fire Hazard:	NO
Reactive Hazard	NO
Release of Pressure	NO
Acute Health Hazard	Yes
Chronic Health Hazard	NO

State Regulations                      This product does not contain any components that are regulated under California Proposition 65

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## 16. OTHER INFORMATION

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	HMIS III	NFPA
Health:	1	1
Flammability	0	0
Reactivity:	0	0
Personal Protection	0	0