



## Material Safety Data Sheet

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### SECTION 1: Product Identification

<b>Product name</b>	Cerium (IV) oxide (99.9%-Ce) (REO)
<b>CAS #</b>	1306-38-3
<b>Catalog #</b>	0580100
<b>Chemical family</b>	Metal oxides

### SECTION 2: Composition, Information on Ingredients

<b>Component</b>	<b>%</b>	<b>CAS #</b>	<b>EINECS #</b>	<b>Hazard Symbol</b>	<b>R-Phrase</b>
Cerium (IV) oxide		1306-38-3	215-150-4	Xi	36/37/38

### SECTION 3: Hazard Identification

<b>Emergency overview</b>	Irritating to eyes, respiratory system and skin.
<b>Eye contact</b>	May cause eye irritation.
<b>Skin contact</b>	May cause skin irritation. May be harmful if absorbed through the skin.
<b>Inhalation</b>	Causes respiratory tract irritation. May be harmful if inhaled.
<b>Ingestion</b>	May cause irritation of the gastrointestinal tract. May be harmful if swallowed.
<b>Chronic health effects</b>	Not available.

### SECTION 4: First Aid Measures

<b>Eye exposure</b>	Flush eyes with of water for at least 10-15 minutes, get medical aid immediately.
<b>Skin exposure</b>	Wash the affected area with water. Remove contaminated clothes if necessary. Get medical aid.
<b>Inhalation</b>	Remove the victim from exposure to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, pain, etc. In such cases seek immediate medical assistance.
<b>Ingestion</b>	Do not induce vomiting without medical consultation. If victim is conscious and alert, wash mouth out with water. Seek medical attention.

### SECTION 5: Fire Fighting Measures

<b>General information</b>	If this material is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing. If involved in a fire this material may emit toxic organic fumes.
<b>Extinguishing media</b>	Use foam, dry chemical, water spray or carbon dioxide.

### SECTION 6: Accidental Release Measures

<b>Spill and leak procedures</b>	Small spills can be mixed with vermiculite or sodium carbonate or other inert material and swept up. Ventilate of area.
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SECTION 7: Handling and Storage	
<b>Handling</b>	Avoid breathing dust. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure.
<b>Storage</b>	Store in a cool, dry place. Store in a tightly closed container.
SECTION 8: Exposure Controls and Personal Protection	
<b>Eye protection</b>	Always wear approved safety glasses when handling a chemical substance in the laboratory.
<b>Skin protection</b>	Wear protective gloves.
<b>Ventilation</b>	Material may form a fine dust. If possible, handle the material in an efficient fume hood.
<b>Respirator</b>	If ventilation is not available a respirator should be worn. The use of respirators requires Respirator Protection Program to be in compliance with 29CFR 1910.134.
SECTION 9: Physical and Chemical Properties	
<b>Appearance</b>	Yellow powdr.
<b>Odor</b>	No data
<b>Melting point</b>	No data
<b>Boiling point</b>	No data
<b>Flash point</b>	No data
<b>Solubility in water</b>	No data
<b>Specific gravity</b>	No data
<b>Molecular formula</b>	CeO <sub>2</sub>
<b>Molecular weight</b>	172.11
SECTION 10: Stability and Reactivity	
<b>Stability</b>	Air and moisture sensitive solid.
<b>Hazardous polymerization</b>	No hazardous polymerization.
<b>Conditions to avoid</b>	Keep away from moisture.
<b>Incompatibilities with other materials</b>	Oxidizing agents, strong acids.
<b>Hazardous decomposition products</b>	Cerium oxides.
SECTION 11: Toxicological Information	
<b>RTECS Data</b>	No data available.
<b>Carcinogenic effects</b>	No data available.
<b>Mutagenic effects</b>	No data available.
<b>Tetratogenic effects</b>	No data available.
SECTION 12: Ecological Information	
<b>Ecological information</b>	No information available.
SECTION 13: Disposal Considerations	
Dispose of in a manner consistent with federal, state, and local regulations.	

SECTION 14: Transport Information	
<b>Shipping name (CFR)</b>	Non-hazardous
<b>Hazard class (CFR)</b>	NA
<b>Additional hazard class (CFR)</b>	NA
<b>Packing group (CFR)</b>	NA
<b>UN ID number (CFR)</b>	NA
<b>Shipping name (IATA)</b>	Non-hazardous
<b>Hazard class (IATA)</b>	NA
<b>Additional hazard class (IATA)</b>	NA
<b>Packing group (IATA)</b>	NA
<b>UN ID number (IATA)</b>	NA
SECTION 15: Regulatory Information	
<b>TSCA</b>	CAS# 7790-86-5 is listed on the TSCA Inventory.
<b>SARA</b>	Not reportable under SARA Title 313.
SECTION 16: Other Information	
<b>Preparation date</b>	10.08.11
<b>Revision date</b>	10.08.11
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