MATERIAL SAFETY DATA SHEET
EUROPIUM(III) OXIDE, 99.99%

Section 1 - Chemical Product and Company Identification

MSDS Name: EUROPIUM(III) OXIDE, 99.99%
Catalog Numbers: 19302-0000, 19302-0010, 19302-0050
Synonyms:
Company Identification: Acros Organics BVBA
Janssen Pharmaceuticalaan 3a
2440 Geel, Belgium
Company Identification: (USA) Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410
For information in the US, call: 800-ACROS-01
For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
Emergency Number US: 201-796-7100
CHEMTREC Phone Number, US: 800-424-9300
CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name:</th>
<th>%</th>
<th>EINECS#</th>
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<tbody>
<tr>
<td>1308-96-9</td>
<td>EUROPIUM(III) OXIDE, 99.99%</td>
<td>99.99</td>
<td>215-165-6</td>
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</tbody>
</table>

Hazard Symbols: None listed
Risk Phrases: None listed

Section 3 - Hazards Identification

EMERGENCY OVERVIEW
Hygroscopic (absorbs moisture from the air).

Potential Health Effects
The toxicological properties of this substance have not been fully investigated.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.
Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion: Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.
Inhalation: Remove from exposure and move to fresh air immediately.
Notes to Physician:
Section 5 - Fire Fighting Measures

**General Information:**
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Extinguishing Media:**
Use agent most appropriate to extinguish fire.

Section 6 - Accidental Release Measures

**General Information:**
Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**
Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal.

Section 7 - Handling and Storage

**Handling:**
Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

**Storage:**
Store in a cool, dry place. Keep container closed when not in use.

Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:**
Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

**Exposure Limits**
CAS# 1308-96-9:

**Personal Protective Equipment**

**Eyes:**
Wear safety glasses and chemical goggles if splashing is possible.

**Skin:**
Wear safety glasses and chemical goggles if splashing is possible.

**Clothing:**
Wear appropriate protective clothing to minimize contact with skin.

**Respirators:**
Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

Section 9 - Physical and Chemical Properties

**Physical State:**
Powder

**Color:**
white to pale pink

**Odor:**
None reported.

**pH:**
Not available

**Vapor Pressure:**
Not available

**Viscosity:**
Not available

**Boiling Point:**
Not available

**Freezing/Melting Point:**
0 deg C (32.00°F)

**Autoignition Temperature:**
Not available

**Flash Point:**
Not available

**Explosion Limits: Lower:**
Not available

**Explosion Limits: Upper:**
Not available

**Decomposition Temperature:**
Not available
**Solubility in water:** insoluble  
**Specific Gravity/Density:** 7.4200g/cm³  
**Molecular Formula:** Eu₂O₃  
**Molecular Weight:** 351.91

### Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.  
**Conditions to Avoid:** Incompatible materials, strong oxidants.  
**Incompatibilities with Other Materials**  
Strong acids.  
**Hazardous Decomposition Products**  
Irritating and toxic fumes and gases.  
**Hazardous Polymerization**  
Has not been reported.

### Section 11 - Toxicological Information

**RTECS#:** CAS# 1308-96-9: LE8053000  
**LD₅₀/LC₅₀:**  
**CAS# 1308-96-9: Oral, rat: LD₅₀ = >5 gm/kg;**

**Carcinogenicity:** EUROPIUM(III) OXIDE, 99.99% - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.  
**Other:** See actual entry in RTECS for complete information.

### Section 12 - Ecological Information

Not available

### Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

### Section 14 - Transport Information

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<th>IMO</th>
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<td>Not available</td>
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<tr>
<td>Packing Group:</td>
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### Section 15 - Regulatory Information

**European/International Regulations**  
European Labeling in Accordance with EC Directives  
Hazard Symbols: Not available  
Risk Phrases:  
Safety Phrases:  
S 24/25 Avoid contact with skin and eyes.  
WGK (Water Danger/Protection)  
CAS# 1308-96-9: Not available  
Canada  
CAS# 1308-96-9 is listed on Canada’s DSL List  
**US Federal**  
TSCA  
CAS# 1308-96-9 is listed on the TSCA Inventory.

### Section 16 - Other Information
The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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