

# SAFETY DATA SHEET

<b>Product Name:</b>	<b>Yttrium</b>	<b>SDS Reference</b>	
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## 1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY

**Product Name** YTTRIUM OXIDE  
**REACH Pre-registration No.** Not applicable  
**REACH Registration No.** Not applicable

**Supplier Details**  
Wogen Resources Ltd.,  
4 The Sanctuary,  
Westminster,  
London SW1P 3JS

**Telephone** +44 (0) 20 7222 3521

**Emergency Telephone** See local directory.

**Competent Person e-mail:** danny.landau@wogen.com

## 2. HAZARDS IDENTIFICATION

**Emergency Overview:** May cause skin irritation and/or dermatitis

**Principle routes of exposure:** Skin

**Inhalation:** May cause irritation of respiratory tract

**Ingestion:** May be harmful if swallowed

**Skin contact:** May cause allergic skin reaction

**Eye contact:** Avoid contact with eyes

**Statements of hazard:** May cause allergic skin reaction

**Statement of Spill of Leak:** Eliminate all ignition sources. Absorb and/or contain spill with inert materials (e.g., sand, vermiculite). Then place in appropriate container. For large spills, use water to spray to disperse vapors, flush spill area. Prevent runoff from entering waterways or sewers

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Characterisation** Y

<u>Chemical name</u>	<u>CAS-No</u>	<u>Classification</u>	<u>Concentration</u>
Yttrium	7440-65-5	Not classified	99.999%

## 4. FIRST AID MEASURES

**General advice:** In the case of an accident or if you feel unwell, seek medical advice immediately (show the label where possible)

**Inhalation:** Move to fresh air. Call a physician immediately

**Skin contact:** Rinse immediately with plenty of water and seek medical advice

**Ingestion:** Do not induce vomiting without medical advice

**Eye contact:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

**Protection of first aiders:** No information available

**Medical conditions**

**aggravated by exposure:** None known.

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**5. FIRE FIGHTING MEASURES**

**Suitable extinguishing media:** Use dry chemical, CO2, water spray or "alcohol" foam  
**Specific hazards:** Burning produces irritant fumes  
**Unusual hazards:** None known

**Special protective equipment for firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**Specific methods:** Water mist may be used to cool closed containers  
**Flash point:** Not determined  
**Autoignition temperature:** Not determined

**NFPA rating:**  
 NFPA Health: 0  
 NFPA Flammability: 0  
 NFPA Reactivity: 0

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Use personal protective equipment  
**Environmental precautions:** Prevent product from entering drains  
**Methods for cleaning up:** Sweep up and shovel into suitable containers for disposal

**7. HANDLING & STORAGE**

**Storage:**  
**ROOM TEMPERATURE**

**Handling:** Use only in area provided with appropriate exhaust ventilation.

**Safe handling advice:** Wear personal protective equipment.

**Incompatible products:** Oxidising and spontaneously flammable products

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Engineering measures:** Ensure adequate ventilation.

**PERSONAL PROTECTIVE EQUIPMENT**

**Respiratory protection:** Breathing apparatus only if aerosol or dust is formed  
**Hand protection:** PVC or other plastic material gloves  
**Skin and body protection:** Usual safety precautions while handling the product will provide adequate protection against his potential effect  
**Eye protection:** Safety glasses with side-shields  
**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice

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## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Physical state:</b>	Powder
<b>Formula:</b>	Y2O3
<b>Melting point/range:</b>	No data available
<b>Boiling point/range:</b>	No data available
<b>Density:</b>	No data available
<b>Vapor pressure:</b>	No data available
<b>Evaporation rate:</b>	No data available
<b>Vapor density:</b>	No data available
<b>Product name:</b>	Yttrium Oxide
<b>Solubility (in water):</b>	No data available
<b>Flash point:</b>	Not determined
<b>Autoignition temperature:</b>	Not determined

## 10. STABILITY & REACTIVITY

<b>Stability:</b>	Stable under recommended storage conditions
<b>Polymerization:</b>	None under normal processing
<b>Hazardous decomposition products:</b>	Thermal decomposition can lead to release of irritating gases and vapours such as carbon oxides
<b>Materials to avoid:</b>	Strong acids
<b>Conditions to avoid:</b>	Exposure to air or moisture over prolonged periods

## 11. TOXICOLOGICAL INFORMATION

### Product Information

<b>Acute toxicity</b>	Not available
<b>Chronic toxicity:</b>	Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness
<b>Local effects:</b>	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting
<b>Specific effects:</b>	May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache
<b>Primary irritation:</b>	No data is available on the product itself
<b>Carcinogenic effects:</b>	No data is available on the product itself
<b>Mutagenic effects:</b>	No data is available on the product itself
<b>Reproductive toxicity:</b>	No data is available on the product itself

## 12. ECOLOGICAL INFORMATION

<b>Mobility:</b>	No data available
<b>Bioaccumulation:</b>	No data available
<b>Ecotoxicity effects:</b>	No data available
<b>Aquatic toxicity:</b>	May cause long-term adverse effects in the aquatic Environment

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**13. DISPOSAL CONSIDERATIONS**

**Waste from residues / unused products:** Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous

**Contaminated packaging:** Do not re-use empty containers

**14. TRANSPORT INFORMATION**

**UN/Id No:** Not regulated

**DOT:**

**Proper shipping name:** Not Regulated

**TDG (Canada):**

**WHMIS hazard class:** Non-controlled

**IMDG/IMO**

**IMDG - Hazard Classifications:** Not Applicable

**15. REGULATORY INFORMATION**

**Classification & labelling**      **CLP Classification:** Not classified

**16. OTHER INFORMATION**

**Further information**      Not available

**Sources of data**      Not available

**Date of issue**      04-01-2011

**This information is based on our present state of knowledge and is intended to describe our products from the point of view of the safety requirements. It should not be construed as guaranteeing specific properties.**