

## **MATERIAL SAFETY DATA SHEET**

### **ZIRCONIUM OXYCHLORIDE**

**(Octahydrate) (Extra Pure)**

**MSDS CAS: 13520-92-8**

#### **Section 1: Chemical Product and Company Identification**

##### **Section 1: Chemical Product**

**Product Name:** Zirconium Oxychloride (Octahydrate) (Extra Pure)

**CAS#:** 13520-92-8

**Synonym:** Not available.

**Chemical Name:** Not available.

**Chemical Formula:** Not available.

**Brand :** OXFORD

##### **Details Of The Supplier Of The Safety Data Sheet :**

**Company identification:**      **OXFORD LAB FINE CHEM LLP**  
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#### **Section 2: Composition and Information on Ingredients**

**Substance / Preparation:**      **ZIRCONIUM OXYCHLORIDE**  
CAS No:13520-92-8  
Substance.

Contains no other components or impurities which will influence the classification of the product.

## Section 3: Hazards Identification

### Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45: Classification: C; R34

### Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP):

Health hazards: Skin corrosion - Category 1B - Danger (CLP: Skin Corr. 1B) H314

### Label elements

#### Labelling EC 67/548 or EC 1999/45:

Symbol(s): C: Corrosive

R Phrase(s): R34: Causes burns.

S Phrase(s): S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S27: Take off immediately all contaminated clothing.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

#### Labelling Regulation EC 1272/2008 (CLP):

Signal words: Danger

Hazard statements: H314: Causes severe skin burns and eye damage.

### Other hazards

Other hazards: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

## Section 4: First Aid Measures

### Description of first aid measures

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.

**Skin contact:** Immediately call a POISON CENTER or doctor. Wash with plenty of soap and water.

Remove/Take off immediately all contaminated clothing.

**Eye contact:** Immediately call a POISON CENTER or doctor. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.

**Ingestion:** Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.

### Most important symptoms and effects, both acute and delayed:

Symptoms relating to use: Causes severe skin burns and eye damage.

## Section 4: First Aid Measures (Continued)

### Indication of any immediate medical attention and special treatment needed:

General information: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

## Section 5: Fire and Explosion Data

### Extinguishing media:

Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand. Unsuitable extinguishing media: Do not use a heavy water stream. Surrounding fires: Use water spray or fog for cooling exposed containers.

### Special hazards arising from the substance or mixture:

Under fire conditions, hazardous fumes will be present. Thermal decomposition generates: Corrosive vapours.

### Advice for fire-fighters:

Protection against fire: Do not enter fire area without proper protective equipment, including respiratory protection. Special procedures: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

## Section 6: Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures:

For emergency responders: Equip cleanup crew with proper protection. Ventilate area.

For non-emergency personnel: Evacuate unnecessary personnel.

### Environmental precautions:

Environmental precautions: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

### Methods and material for containment and cleaning up:

Clean up methods: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

### Reference to other sections:

See section 8. Exposure controls/personal protection

## Section 7: Handling and Storage

### Precautions for safe handling

**Handling:** Do not breathe dust, fume, gas, mist, vapours, spray. Wash thoroughly after handling. Wash contaminated clothing before reuse.

**Technical protective measures:** Provide good ventilation in process area to prevent formation of vapour.

### Conditions for safe storage, including any incompatibilities

**Storage:** Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

**Storage - away from:** Comply with applicable regulations.

**Specific end use(s):** None.

## Section 8: Exposure Controls/Personal Protection

### Exposure controls

<b>Personal protection:</b>	Avoid all unnecessary exposure.
<b>Respiratory protection:</b>	Wear approved mask.
<b>Hand protection:</b>	Wear protective gloves.
<b>Eye protection:</b>	Chemical goggles or safety glasses.
<b>Others:</b>	When using, do not eat, drink or smoke.

### Control parameters

**Occupational Exposure Limits:** No data available.

## Section 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

<b>Physical state at 20 °C:</b>	Solid.
<b>Colour:</b>	White Powder
<b>Odour:</b>	Odorless
<b>Odour threshold:</b>	No data available.
<b>pH value:</b>	Not applicable.
<b>Melting point [°C]:</b>	150 °C

## Section 9: Physical and Chemical Properties (Continued)

Flash point [°C]:	N/A
Boiling point [°C]:	210°C
Vapour pressure [20°C]:	N/A
Vapour density:	N/A
Density [g/cm <sup>3</sup> ]:	N/A
Solubility in water [% weight]:	Insoluble in water
Solubility in water:	N/A
Log Pow octanol / water at 20°C:	No data available.
Solubility:	N/A
Viscosity at 40°C [mm <sup>2</sup> /s]:	N/A

### Other information

Explosive properties:	N/A
Explosion limits - upper [%]:	N/A
Explosion limits - lower [%]:	N/A
Oxidising properties:	No data available.

## Section 10: Stability and Reactivity Data

Reactivity:	Not established.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Not established.
Conditions to avoid:	Direct sunlight. Extremely high or low temperatures.
Incompatible materials:	Strong acids. Strong bases.
Hazardous decomposition products: decomposition generates : Corrosive vapours.	Fumes. Carbon monoxide. Carbon dioxide. Thermal

## Section 11: Toxicological Information

### Information on toxicological effects

#### Acute toxicity

• Inhalation:	Based on available data, the classification criteria are not met.
• Dermal:	Based on available data, the classification criteria are not met.
• Ingestion:	Based on available data, the classification criteria are not met.
Corrosion:	Causes severe skin burns and eye damage

## Section 11: Toxicological Information (continued)

<b>Irritation:</b>	Based on available data, the classification criteria are not.
<b>Sensitization:</b>	Based on available data, the classification criteria are not met.
<b>Mutagenicity:</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity:</b>	Based on available data, the classification criteria are not met.
<b>Toxic for reproduction:</b>	Based on available data, the classification criteria are not met.
<b>STOT-single exposure:</b>	Based on available data, the classification criteria are not met.
<b>STOT-repeated exposure:</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard:</b>	Based on available data, the classification criteria are not met.

## Section 12: Ecological Information

**Toxicity:** Not established.

**Persistence – degradability:** Biodegradable.

**Bioaccumulative potential:** Not established.

**Mobility in soil:** Not established.

**Results of PBT and vPvB assessment:**

The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

**Other adverse effects:**

**Environmental precautions:** Avoid release to the environment.

## Section 13: Disposal Considerations

**Waste Disposal:**

Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

## Section 14: Transport Information

### Land transport (ADR-RID)

Proper shipping name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

UN N°: 3260

H.I. nr: 80

ADR - Class: 8

### Sea transport (IMDG) [English only]

Proper shipping name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

UN N°: 3260

H.I. nr: 8: Corrosive substance.

ADR - Class: II

### Air transport (ICAO-IATA) [English only]

Proper shipping name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

UN N°: 3260

H.I. nr: 8: Corrosive substance.

ADR - Class: II

## Section 15: Other Regulatory Information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

Ensure all national/local regulations are observed. REACH Restrictions - Annex XVII: The components of this product are not subject to restrictions. REACH Authorisation - Annex XIV: The components of this product are not subject to authorization.

Chemical Safety Assessment: It has not been carried out.

## Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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