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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

ZIRCONIUM OXYCHLORIDE
(Octahydrate) AR
MSDS CAS: 13520-92-8

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product
Product Name: Zirconium Oxychloride (Octahydrate) AR
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

Personal protection:	**Avoid all unnecessary exposure.**
Respiratory protection:	**Wear approved mask.**
Hand protection:	**Wear protective gloves.**
Eye protection:	**Chemical goggles or safety glasses.**
Others:	**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

Physical state at 20 °C:	**Solid.**
Colour:	**White Powder**
Odour:	**Odorless**
Odour threshold:	**No data available.**
pH value:	**Not applicable.**
Melting point [°C]:	**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/cm3]:	**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 [mm2/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:	**Fumes. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapours.**

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)

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