

MATERIAL SAFETY DATA SHEET

ZIRCONIUM SILICATE

(Extra Pure)

MSDS CAS: 10101-52-7

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: Zirconium Silicate (Extra Pure)

CAS#: 10101-52-7

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 SILICATE EXTRA PURE**
CAS No :10101-52-7
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: Xn; R20 Xi; R36/37/38

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

Health hazards: Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation-Category 3-
Warning (CLP: STOT SE 3) H335 Skin corrosion - Category 1B - Danger (CLP : Skin Corr. 1B) H314 Skin
irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315 Acute toxicity, Oral - Category 4 - Warning
(CLP : Acute Tox. 4) H302 Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319 Acute toxicity,
Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332

Label elements

Labelling EC 67/548 or EC 1999/45:

Symbol(s): Xn: Harmful

R Phrase(s): R20: Harmful by inhalation. R36/37/38: Irritating to eyes, respiratory system and skin.

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

S36: Wear suitable protective clothing.

Labelling Regulation EC 1272/2008 (CLP):

Signal words: Danger

Hazard statements: H314: Causes severe skin burns and eye damage. H302: Harmful if swallowed. H319:
Causes serious eye irritation. H315: Causes skin irritation. H332: Harmful if inhaled. H335: May cause
respiratory irritation.

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: Immediately call a POISON CENTER or doctor. Remove to fresh air and keep at rest in a
position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

Skin contact: Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.
Immediately call a POISON CENTER or doctor. Specific treatment (see on this label). Get medical advice. If
skin irritation occurs: Wash contaminated clothing before reuse.

Eye contact: Immediately call a POISON CENTER or doctor. Get medical advice. If eye irritation persists:
Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several
minutes.

Section 4: First Aid Measures (Continued)

Ingestion: Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

Most important symptoms and effects, both acute and delayed:

Swallowing a small quantity of this material will result in serious health hazard. Danger of serious damage to health by prolonged exposure through inhalation. Causes severe skin burns and eye damage. Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation.

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.

Section 6: Accidental Release Measures (Continued)

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 eat, drink or smoke when using this product. Use only outdoors or in a well ventilated area. Wash thoroughly after 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.

Special precautions: Avoid breathing dust, fume, gas, mist, vapours, spray.

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 regulation: Comply with applicable regulations.

Storage - away from: Strong bases. Strong acids. Sources of ignition. Direct sunlight.

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.

Section 8: Exposure Controls/Personal Protection (Continued)

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:	Light grey to white
Odour:	Odorless
Odour threshold:	No data available.
pH value:	Not applicable.
Melting point [°C]:	> 2550 °C
Flash point [°C]:	N/A
Boiling point [°C]:	N/A
Vapour pressure [20°C]:	N/A
Vapour density:	N/A
Density [g/cm ³]:	4,56
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 ² /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: Harmful if inhaled.
- Dermal: Based on available data, the classification criteria are not met.
- Ingestion: Harmful if swallowed.
- Corrosion: Causes severe skin burns and eye damage.
- Irritation: Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation.
- 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.

Section 12: Ecological Information (Continued)

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)

General information: Not regulated.

Sea transport (IMDG) [English only]

General information: Not regulated.

Air transport (ICAO-IATA) [English only]

General information: Not regulated.

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.

Disclaimer:

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