



## Section 1 - Chemical Product and Company Identification

**Product Name** Zirconium Dioxide pure, 99%  
**Product Code** 52049  
**CAS No** 1314-23-4  
**Use for** Laboratory Chemicals.  
**Company Name** Sisco Research Laboratories Pvt. Ltd.  
**Address** 608, B Wing, Satellite Gazebo, Andheri Ghatkopar Link Road,  
Andheri (E), Mumbai - 400 099, India

## Section 2 - Composition/Information on Ingredients

CAS#	Chemical Name	%	EINECS#
1314-23-4	Zirconium Oxide	99	215-227-2

No components need to be disclosed according to the applicable regulations.

## Section 3 - Hazards Identification

Risk advice to man and the environment  
Not to hazardous substance or mixture(Non-Haz)

## Section 4 - First Aid Measures

Eyes: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.  
Skin: Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.  
Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.  
Inhalation: If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician  
General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.  
Notes to Physician:

## Section 5 - Fire Fighting Measures

Extinguishing Media  
Suitable: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Special Protective  
Equipment For Firefighters: Wear self contained breathing apparatus for fire fighting if necessary.

## Section 6 - Accidental Release Measures



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Personal precautions: Use personal protective equipment. Avoid dust formation. Avoid breathing dust.

Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions: Prevent further leakage or spillage if safe to do so.

Do not let product enter drains.

Methods for cleaning up: Pick up and arrange disposal without creating dust.

Keep in suitable, closed containers for disposal.

## Section 7 - Handling and Storage

Handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage: Room Temperature Keep container tightly closed in a dry and well-ventilated place.

## Section 8 - Exposure Control / Personal Protection

Personal Protective Equipment

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand Protection: The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Handle with gloves.

Eye Protection: Safety glasses

Skin and body protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

## Section 9 - Physical and Chemical Properties

Physical State: Powder

Molecular Formula: ZrO<sub>2</sub>

Molecular Weight: 123.22

Melting point: 2,700 °C (4,892 °F) - lit.

Boiling Point: 5,000 °C (9,032 °F) - lit.

Flash Point: NA

## Section 10 - Stability and Reactivity



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Storage stability: Stable under recommended storage conditions.

Materials to avoid:

Hazardous decomposition

Products formed under fire

conditions: Zirconium oxides

## Section 11 - Toxicological Information

Acute toxicity: No data available

Irritation and corrosion: No data available

Sensitisation: No data available

Chronic exposure: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Signs And Symptoms

Of Exposure: No data available

Route Of Exposure

Inhalation: No data available

Skin : No data available

Eyes: No data available

Ingestion: No data available

## Section 12 - Ecological Information

No data available.

## Section 13 - Disposal Considerations

Product: Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

## Section 14 - Transport Information

IATA          IMO          RID/ADR

Shipping Name: Not Regualted For Transport (Non-Haz)

Hazard Class:

UN Number:

Packing Group:

## Section 15 - Regulatory Information

This safety datasheet complies with the requirements of Regulation(EC)No1907/2006



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RESEARCH  
LABORATORIES  
PVT. LTD.

# Safety Data Sheet

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## **Section 16 - Other Information**

Sisco Research Laboratories Pvt. Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.