

MSDS No.: SiC-Z01  
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## Section – 1 Identification Of Products And Company

**Products Name:** Carbon Bonded Silicon Carbide Crucibles etc.

**Trade Name:** Platinum

**Use of Products:** For Melting and Holding of metals for casting process

**Name of Company:** Zircar Refractories Ltd.

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Gujarat, India  
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## Section – 2 Hazard(s) Identification

The components of these products are not classified as hazardous.

**Chronic health effects:** Not Applicable

**Short-term exposure effects:** Not Applicable

**Physical hazards:** Not Applicable

**Potential hazards during use:**

1. Since it is solid in nature, there is possibility of dust generation if it is abraded or fractured during handling.
2. Possibility of burns if mishandled during high temperatures applications.
3. The products are highly susceptible to moisture and it may spall during pre-heating if stored in damp conditions.

## Section – 3 Composition/Information on Ingredients

**Description:** Carbon Bonded Silicon Carbide Crucibles.

**Identification Name :** Zircar, Platinum

**Composition:** C + SiC + Al<sub>2</sub>O<sub>3</sub> + Si + SiO<sub>2</sub>

None of the components are classified as hazardous in any jurisdiction.

## Section – 4 First Aid Measures

### Inhalation:

Symptoms of Exposure: Dryness in throat or coughing due to exposure to respirable dust.

First Aid measures: Move to fresh air. If symptoms persists, seek medical help.

### Skin Contact:

Symptoms of Exposure: Mechanical irritation to skin due to exposure to dust; Burn due to contact with hot product.

First Aid measures: Remove contaminated clothing. Wash area of contact thoroughly with water. Seek medical help.

### Eye Contact:

Symptoms of Exposure: Mechanical irritation to eyes due to exposure to dust.

First Aid measures: Wash eyes immediately with large amounts of water. Do not rub eyes. Seek medical help.

### Ingestion:

Symptoms of Exposure: Possible stomach problems due to ingestion of dust.

First Aid measures: Seek medical help.

## Section –5 Fire-Fighting Measures

Silicon Carbide products are non-flammable and don't need fire fighting measures for itself. Since there products are packed in corrugated / wooden boxes, there packing materials are flammable.

The products do not react adversely with any extinguishing media.

Use extinguishing agent suitable for packaging and other materials stored nearby.

## Section –6 Accidental Release Measures

**Personal Precautions:** Ensure good ventilation to area. Avoid creating airborne dust. Wear personal protective equipments.

**Environmental Precautions:** Clean up broken pieces/dust immediately. Ensure material does not enter drainage system.

**Methods for cleaning up:** Use wet sweeping or vacuuming to clean the work area; do not use compressed air or dry sweeping. If vacuuming, the vacuum cleaner should be equipped with a high efficiency particulate filter.

## Section –7 Handling And Storage

**Handling:** Since Silicon Carbide crucibles are brittle and fragile in nature they should be handled carefully. Proper handling / lifting tackles should be used wherever possible..

**Storage:** Since Silicon Carbide crucibles are susceptible to moisture, store them in dry conditions..

## Section – 8 Exposure Controls And Personal Protection

None of the components of these product are classified as hazardous in any jurisdiction But Product itself is a ceramic item and will be broken due to falling and external forces exerted on it. Wear the safety shoes and safety glass handling and using the product.

## Section – 9 Physical And Chemical Properties

<b>Appearance:</b>	Black Solid (may be coated fully or partly with a coloured paint)
<b>Odour:</b>	None
<b>Boiling Point:</b>	Not applicable
<b>Melting Point:</b>	Not applicable to main body. Surface Glaze has a wide melting point from 600°C - 1300°C
<b>pH:</b>	Not applicable
<b>Flash Point:</b>	Non-flammable
<b>Density Range:</b>	1.85 - 2.30 gm/cc
<b>Water Solubility:</b>	NIL

## Section – 10 Stability And Reactivity

<b>Chemical Stability:</b>	Stable under conditions of normal use
<b>Conditions to Avoid:</b>	Rapid heating of damp material (from damp storage conditions)
<b>Materials to Avoid:</b>	None

**Hazardous Decomposition Products:** When using fluxes & other metallurgical treatment chemicals with the product, chemical decomposition of the product is possible.

## Section - 11 Toxicological Information

**Inhalation:** None toxic. Follow Instruction as advised in section 4.  
**Skin Contact:** None toxic. Follow Instruction as advised in section 4.  
**Eye Contact:** None toxic. Follow Instruction as advised in section 4..  
**Ingestion:** None toxic. Follow Instruction as advised in section 4.

## Section - 12 Ecological Information

These products are inert materials, which remain stable over time.

No ecological concerns have been identified or anticipated.

## Section - 13 Disposal Considerations

It is not recommended to break up the product (either before or after use) prior to disposal as this may release dust.

Check local, regional, state or provincial regulations to identify all applicable disposal requirements.

Contamination during use or chemical additions to the product may alter the disposal requirements.

## Section - 14 Transport Information

Not classified as dangerous goods under IMDG (sea), ADR (road), RID (rail), or ICAO/IATA (air) regulations. Consult local, regional, state or provincial regulations.

## Section – 15 Regulatory Information

There are no known local, national or international regulations or restrictions that apply to the manufacture, use or disposal of these products. Consult local authorities if additional information is required.

## Section – 16 Other Information

For best performance & recommended handling & storage practices refer to the 'Crucible's Care & Use' leaflet, available from the manufacturer.

**Reasonable care has been taken in the preparation of information contained in this Safety Data Sheet, and the information is provided in good faith. Zircar Refractories Ltd. assumes no responsibility as to the accuracy of information drawn from the stated sources. No warranty, expressed or implied, is made.**