



*Zircar Crucibles Pvt. Ltd.*

PRODUCT WITH A CUTTING EDGE

# Material Safety Data Sheet

MSDS No: M-Z01  
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## SECTION-1 IDENTIFICATION OF PRODUCT AND COMPANY

**Product Name:** Carbon Bonded Silicon Carbide Crucibles  
**Trade Name:** Platinum  
**Use of Product:** Crucibles for melting and holding of metal for casting.  
**Company Name :** Zircar Crucibles Pvt Ltd  
**Address:** 402,Campus Corner, St. Xavier's College Cross Road,  
Navarangpura,Ahmedabad-380009. India  
Ph No: +91-79-26400457,58 Fax No: +91-79-26400456

## SECTION-2 COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Composition:** Carbon Bonded Silicon Carbide  
**Formula:** C+SiC+Al<sub>2</sub>O<sub>3</sub>+Si+SiO<sub>2</sub>

## SECTION-3 PHYSICAL DATA

**Appearance:** Black Solid  
**Odour:** None  
**Boiling Point:** Not Applicable  
**Melting Point:** Not Applicable  
**Water Solubility:** Nil  
**Flash Point:** Non-Flammable

## SECTION-4 CHEMISTRY

Sr. No.	Compound	% Use	Grading Size	Color
1	Carbon (C)	12-14	Fines	Black
2	Silicon Carbide (SiC)	35-40	Fines	Black
3	Alumina (Al <sub>2</sub> O <sub>3</sub> )	6-8	Fines	Brown
4	Silicon (Si)	4-5	Fines	Black
5	Silica (SiO <sub>2</sub> )	3-10	Fines	Whitish
6	Graphite	30-35	Flaky	Black

## SECTION-5 HAZARD IDENTIFICATION

<b>Emergency Overview:</b>	The components of these products are not classified as hazardous
<b>Chronic Health Effects:</b>	None
<b>Short-Term Exposure Effects:</b>	None
<b>Physical Hazards:</b>	None

## SECTION-6 HAZARDOUS COMPONENTS

<b>Description:</b>	Fired carbon-bonded silicon carbide
<b>Composition:</b>	None of the components are classified as hazardous in any jurisdiction

## SECTION-7 FIRST AID MEASURES

<b>Inhalation:</b>	Not Applicable
<b>Skin Contact:</b>	Not applicable
<b>Eye Contact:</b>	Not applicable
<b>Ingestion:</b>	Not applicable

## SECTION-8 FIRE FIGHTING MEASURES

These products are non-flammable.

**Explosion Hazard:** Not Explosive.

**Extinguishing Media:** Not Required.

## SECTION-9 HANDLING AND STORAGE

**Handling:** Take care to avoid damaging the product as this may create dust. Some of the larger products are very heavy and care should be taken to avoid personal injury. The use of appropriate lifting & handling equipment is recommended for this purpose

**Storage:** Store in dry conditions.

## SECTION-10 PERSONAL PROTECTIVE EQUIPMENT

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-11 STABILITY AND REACTIVITY

**Chemical Stability:** Stable under conditions of normal use.

**Condition to Avoid:** Rapid heating of damp material(from damp storage conditions).

**Material to Avoid:** None

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

## SECTION-12 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-13 TRANSPORT INFORMATION

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

## SECTION-14 TOXICOLOGICAL INFORMATION

<b>Inhalation:</b>	Not Applicable
<b>Skin Contact:</b>	Not Applicable
<b>Eye Contact:</b>	Not Applicable
<b>Ingestion:</b>	No known effect.

## SECTION-15 REGULATORY INFORMATION

There are no known local, notational 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 the best performance & recommended handling & storage practices refer to the 'Crucible Care' available from the manufacturer.