

HEAT FLOWS GRAPHITE CRUCIBLE

Safety Data sheet according to Regulations (EC) No. 1907/2006

Revision date: 30.05.2022, Version 2

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Clay-bonded Graphite Crucible

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Metal production and processing, including alloys

Uses advised against: Other

Details of the supplier of the safety data sheet

Manufacturer

Heat Flows Graphite Crucible
19-14/1,Dowleswaram,Rajahmundry,East Godavari, Andhra Pradesh,533125
Cell : 093979 03727,08466092546
Email:sriraghavendracruzible@gmail.com

Emergency Telephone Number

Heat Flows Graphite Crucible
Cell : 093979 03727,08466092546

SECTION 2: Hazards identification

Emergency overview:

The components of these products are not classified as hazardous according to REGULATION (EC) No 1907/2006.

Chronic health effects:

none

Short-term exposure effects:

none

Physical hazards:

none

Potential hazards during use;

May release dust if products are abraded, broken or otherwise damaged through mishandling

Danger of burns through mishandling when products are in use at high temperatures
Risk of product spalling during heat up if product stored in damp conditions

SECTION 3: Composition / information on ingredients

Description: Fired carbon-bonded silicon carbide/graphite refractory articles

Composition: 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: Remove to fresh air, if symptoms persist seek medical attention.

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 attention.

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 attention.

Ingestion:

Symptoms of Exposure: Possible stomach problems due to ingestion of dust. First Aid measures: Seek medical attention.

SECTION 5: Firefighting measures

These products are non-flammable.
Packaging and surrounding materials may be combustible.
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 equipment as detailed in section 8.

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: Take care to avoid damaging the product as this may create dust. Some of the 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.

Specific Use: For safe & efficient use of the product, working practices must comply with recommendations described in the 'Care & Use of Crucibles' leaflet, available from the manufacturer.

SECTION 8: Exposure controls/personal protection

Exposure limits and guidelines (many jurisdictions have exposure limits and control guidelines for substances not listed elsewhere as hazardous - consult and comply with regulations where they exist):

Exposure Limit Values:

Industrial hygiene standards and occupational exposure limits vary between countries and jurisdictions. Check which exposure limits apply to your facility. In the absence of exposure information, or if no regulatory dust or other standards apply, the manufacturer recommends control of respirable dust exposures to the UK limit for nuisance dusts of 4 mg/m³/8hour time weighted average (TWA) or less.

Exposure Controls:

Review your working practices in order to identify potential sources of dust exposure. If

necessary conduct personal air monitoring. Where technically and economically feasible, use engineering controls. These may include local exhaust ventilation & equipment to remove airborne dust or materials.

Personal Protective Equipment:

Respiratory Protection: Wear approved respirator when wrecking out used product if this may create dust concentrations above the exposure limit.

Hand Protection: Wear protective gloves.

Eye Protection: Wear safety glasses with side shields or other appropriate forms of eye protection.

Skin Protection: Wear safety shoes and appropriate work overalls when handling the product prior to use. Wear foundry grade protective garment and safety shoes when using the product

SECTION 9: Physical and chemical properties

Appearance: Black Solid (may be coated fully or partly with a coloured paint)

Odour: None

pH: Not applicable

Melting Point: 600 - 1300°C (surface coating), not applicable to main body of product.

Boiling Point: Not applicable

Flash Point: Non-flammable

Density Range: 1.65 - 2.10 gcm-3

Water Solubility: None

SECTION 10: Stability and reactivity

Chemical Stability: Stable under conditions of normal use

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

Materials to Avoid: None

Hazardous Decomposition Products: When using fluxes & other metallurgical treatment chemicals with the product, chemical decomposition of the product is possible. Refer to recommendations from the specific treatment chemical manufacturer.

SECTION 11: Toxicological information

Inhalation: No known effect. Dust generated from damaged product may contain small amounts of crystalline silica. Crystalline silica is present as a natural impurity in some of the product components, and may be generated in small quantities within the product during extended use above 900°C. Long term exposure to respirable crystalline silica may cause lung disease, including silicosis, and an increased risk of developing lung cancer.

Skin Contact: No known effect. Possible mechanical irritant effect of dust generated from damaged product.

Eye Contact: No known effect. Possible mechanical irritant effect due to dust generated from damaged product.

Ingestion: No known effect

SECTION 12: Ecological information

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

No ecological concerns have been identified or are 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 'Care & Use of Crucibles', available from the manufacturer.



HEAT FLOWS

— GRAPHITE CRUCIBLE —