Material Safety Data Sheet

Section 1. Identification of the chemical and supplier

Product Name: Graphite Conductivity Hot Insert **Synonyms:**
commodity code: DC 2239
(M)SDS Number: 2108EN
Relevant identified use(s): Thermal Mounting sample preparation for metallographic experiments
Emergency telephone number: 13814829868（24h）
Name of the company: Trojan (Suzhou) Material Technology Co., Ltd
Address of the company: Building 26, No. 228 Gongtang Road Luzhi Town,Wuzhong District, Suzhou, China.
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Section 2. Hazards identification

Hazard classification according to GHS:

Skin corrosion/irritation	Category 2	(H315)
Severe eye injury/eye irritation	Category 2	(H319)
Cutaneous sensitization	Category 1	(H317)
Germ cell mutagenesis	Category 2	(H341)
Carcinogenicity	Category 1A	(H350)
Specific target organ toxicity (repeated exposure)	Category 2	(H373)

Hazard pictograms**:**



Signal word: Danger

Hazard statements:
H315 - Cause skin irritation
H317 - May cause allergic skin reactions
H319 - Causes severe eye irritation
H341 - Suspicion of genetic defects
H350 –May cause cancer
H373 - Prolonged or repeated inhalation may cause damage to organs
Precautionary statements:
1. **Prevention:**

-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
-Do not eat, drink or smoke when using this product.
-Wear protective gloves/protective clothing/eye protection/face protection.

2. **Response:**

- In case of fire: use suitable extinguishing equipment to extinguish the fire.
- If swallowing: rinse mouth, prompt vomiting, seek medical advice as soon as possible.
- In case of contact with eyes: open eyelids while standing, flush contaminated eyes with gentle water.
-If skin contacting: rinse clean with water.

3. **Storage:**

- Store in a well-ventilated place. Keep container tightly closed.

4. **Disposal:**

- Collect centrally and deal with in accordance with local regulations.

Section 3. Composition/information on ingredients

Name： Conductivity Hot Mounting Componds

Substances

Chemical name	EC No.	CAS No.	Weight-%
Phenolic Resin	**500-005-2**	**9003-35-4**	40 -60
Wood Flour	**232-674-9**	**9004-34-6**	0-20
Silica sand	**238-878-4**	**14808-60-7**	0-40
Graphite	**207-938-1**	**7782-42-5**	30-40

Section 4. First-aid measures

General advice: Immediate medical attention is required. Show this material safety data sheet (MSDS) to the doctor in attendance .

Description of necessary first-aid measures

If inhaled

Remove to fresh air. If symptoms develop, seek medical treatment immediately. If breathing stops, give artificial respiration and seek medical treatment immediately. Do not inhale dust. Do not use the mouth-to-mouth method if the patient ingests or inhales the substance. Use a pocket breathing mask equipped with a one-way valve or other appropriate respiratory medical equipment to give mouth to mouth breathing. If breathing is difficult, oxygen is given (by trained personnel).

Following skin contact

Seek medical attention immediately. Wash immediately with soap and plenty of water, and remove contaminated clothing and shoes, which may cause allergic skin reactions.

Following eye contact

Seek medical attention immediately. Immediately rinse with plenty of water, including under eyelids, for at least 15 minutes. Keep eyes open while rinsing. If contact lenses are in and easily removed, remove contact lenses. Continue rinsing and do not rub the affected area.

Following ingestion

Do not induce vomiting. Rinse the mouth with water, then drink plenty of water. Do not give anything to the unconscious person through the mouth. Seek medical attention immediately.
Most important symptoms/effects, acute and delayed Pruritus, rash, measles, burning sensation, cough and/or wheezing and difficulty breathing.
Advice for protecting the rescuer Ensure that health care workers are aware of the materials involved, take their own precautions and prevent the spread of contamination. Avoid contact with skin, eyes or clothing. Do not inhale dust. If the patient ingests or inhales the substance, do not use the mouth to mouth method. Use a pocket respirator with a one-way valve or other appropriate respiratory medical device to perform artificial respiration. Use personal protective equipment as required.
Special note to the doctor May cause allergies in susceptible populations, symptomatic treatment.

Section 5. Firefighting measures

Suitable extinguishing media: Use fire extinguishing measures appropriate to local conditions and the surrounding environment.
Specific hazards arising from the substance or mixture This product is or contains an allergen that may cause irritation to skin contact.
Special fire extinguishing procedure: N.A.
Special protective actions for fire-fighters: Firefighters should wear self-contained breathing apparatus and full fire fighting clothing and use personal protective equipment.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Avoid contact with skin, eyes or clothing, ensure adequate ventilation, and use personal protective equipment as required. Evacuate personnel to safe areas, personnel must be away from the spill/leak area, or in the air outlet, to avoid dust, do not inhale dust.
Environmental precautions: To prevent further leakage or spillage as far as is safe and practicable.
Methods and materials for containment and cleaning up **Methods for containment**: To prevent further leakage or spillage as far as is safe and practicable. **Methods for cleaning up**: Mechanically picked up and placed in an appropriate container for disposal.

Section 7. Handling and storage

Precautions for handling **Safe operation instruction:** Operate according to good industrial hygiene and safety practices, avoid contact with skin, eyes or clothing, remove all contaminated clothing, wash before reuse. In case of poor ventilation, wear appropriate respiratory protective equipment, do not eat, drink or smoke, do not inhale dust and avoid dust when using this product. Only handle the product in a closed system or provide suitable exhaust equipment.

General health precautions: Avoid contact with skin, eyes or clothing and wear appropriate gloves and eye/face protective equipment. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, and regularly clean equipment, work areas and clothing before reuse. Wash hands immediately before rest and after handling the product. Do not inhale dust. Remove all contaminated clothing and wash before reuse. Contaminated work clothes shall not be taken out of the workplace.
Precautions for storage Keep container tightly closed and in a dry, cool and well ventilated place. Store out of reach of children. The storage area must be locked.
Operation cautions: N.A.

Section 8. Exposure controls/personal protection

Engineering control: Wash hands thoroughly after handling, maintain good housekeeping.
Control parameters - 8 hours daily average admissible concentration/short time average admissible concentration/maximum admissible concentration：N.A. - biological indicator：N.A.
Personal protection equipment - Eye/Face Protection: Wear safety glasses (or goggles) with rim protectors. If splashing is a possibility, wear safety glasses with a side guard. -Hand protection: Avoid direct contact and wear protective gloves. -Skin and body protection**:** No special requirements.
Hygiene measures: Remove contaminated clothing as soon as possible after work.

Section 9. Physical and chemical properties

Appearance: Black or colored powder	**Odor**: N.A.
Odor threshold: N.A.	**Glass transition temperature :** 120℃
pH: 9 - 10	**Initial boiling point and boiling range**: N.A.
Flammability: Flammable	**Flashpoint:** 192℃
Decomposition temperature: 260℃	**Test method:** V Open Glass
Spontaneous ignition temperature: N.A.	**Explosion limit:** N.A.
Vapor pressure: N.A.	**Vapor density :** N.A.
Relative density: 1.4-2.0	**Solubility:** Do not dissolve in water

Section 10. Stability and reactivity

Stability and reactivity	
Stable under normal conditions	
The explosion of data	N.A.
Sensitive to mechanical impact	N.A.
Sensitive to electrostatic discharge	N.A.

Possible hazardous reactions under special circumstances: It doesn't happen during normal processing
Conditions to avoid： Overheating **Prohibited content:** Strong acid, strong base, strong oxidant
Hazardous decomposition products： Under normal conditions of storage and use, hazardous decomposition products should not be produced

Section 11. Toxicological information

Exposure pathways: eye/ ingestion
Symptom: **Inhalation**： Specific test data for this substance or mixture are not available. May cause respiratory irritation and may be toxic by inhalation (depending on composition). **Eye contact:** Specific test data for this substance or mixture are not available. Irritating eyes, causing severe eye irritation. **Skin contact:** May cause allergies. Specific test data for this substance or mixture are not available. Repeated or prolonged skin contact may cause allergic reactions in susceptible people, causing skin irritation and poisoning by skin contact. **Ingestion**：Specific test data for this substance or mixture are not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Swallowing is harmful. **Information on toxicological effects:** **Symptoms**: Pruritus, rash, hives, redness. May cause red and watery eyes, coughing and/or wheezing and difficulty breathing.
Chronic or chronic toxicity: Skin corrosion/irritation: Classification based on available data of components. Irritating skin. Severe eye injury/eye irritation: Classification based on available data of components. Irritating eyes. Respiratory or skin sensitization: May cause irritation by skin contact. Germ cell mutagenesis: No information available.

Section 12. Ecological information

Ecotoxicity: No information available.
Persistence and Degradability: No information available.
Bioaccumulation: No information available.
Mobility in soil： No information available.
Other adverse effects: No information available.

Section 13. Disposal considerations

Waste treatment methods:	
Residues/waste from unused products	Dispose of waste in accordance with local regulations and environmental regulations.
Contaminated Packaging	No information available.

Section 14. Transport information

Special Name for Transport: Container bottles are not specified for <110 Gal.

International Transport Regulations: No special requirements.
UN Name: No special requirements.
Transport hazard class： ／
Packing group: No special requirements.
Marine pollutant: No special requirements.
Special transportation method and matters needing attention: No special requirements.

Others:

IMDG/IMO	Unregulated
UN number	N, Unregulated
Proper Shipping Name	Unregulated
Hazard Class	Unregulated
Packing Group	Unregulated
Marine Pollutant	N
Environment Hazards	Y
Special provisions	N.A.
Bulk transportation basis MARPOL 73/78	N.A.
RID	Unregulated
UN number	Unregulated
Proper Shipping Name	Unregulated
Hazard Class	Unregulated
Packing Group	Unregulated
Environment Hazards	Y
Special provisions	N.A.
ADR	Unregulated
UN number	Unregulated
Proper Shipping Name	Unregulated
Hazard Class	Unregulated
Packing Group	Unregulated
Environment Hazards	Y
Special provisions	N.A.
IATA	Unregulated
UN number	Unregulated
Proper Shipping Name	Unregulated
Hazard Class	Unregulated
Packing Group	Unregulated
Environment Hazards	Y
Special provisions	N.A.

Section 15. Regulatory information

Applicable regulations: China

Section 16. Others

Reference		
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