

No. SDSE002

Drawn up: March 8, 2005

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Safety Data Sheet

1. Product and company information

Product name : XEBEC Ceramic Stone™ Heat-Resistant
Company name : XEBEC Technology Co., Ltd.
Address : 1-7-25 Koujimachi, Chiyoda-ku, Tokyo, Japan
Phone : +81-3-3239-3481
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2. Summary of hazardous properties

GHS classification ¹⁾ : Not applicable
Hazard to health : Does not contain hazardous inhalant fibers (thickness of less than 3µm). Does not correspond to refractory ceramic fiber (RCF). The powder dust generated in the processing work may irritate the skin and give rise to allergic reactions.

3. Composition / information on ingredients

Chemical substance : Mixture
/Mixture classification
Chemical name : Inorganic continuous fiber, epoxy resin molded thermoset
(or general name)
Concentration or range : Inorganic continuous fiber 65wt% - 90wt%
of concentration : Epoxy resin 35wt% - 10wt%
CAS No. : * (*Chemical identity withheld as trade secret.)

4. First aid measures

Countermeasures against the powder dust generated during use of the product or during the polishing, grinding, and deburring processes

In case of inhalation : Gargle using clean water, move to an area where there is fresh air, and seek medical assistance from a doctor where necessary.

In case of skin contact : Wash the affected area with water or soap. If skin abnormality persists, seek medical assistance from a doctor.

In case of eye contact : Do not rub the eye, but wash with plenty of water immediately for more than 15 minutes. Seek medical assistance from an ophthalmologist where necessary.

If swallowed : Gargle using clean water, move to an area where there is

fresh air, and seek medical assistance from a doctor where necessary.

5. Firefighting measures

Extinguishing agents : Although inorganic continuous fiber is not flammable, hardened epoxy resin material is flammable. Use a water spray or other general extinguishing agents.

Extinguishing agents that must not be used : None in particular

Specific hazardous properties : May generate irritant gases

Protection for firefighters : Use an appropriate air respirator and wear protective clothing (heat resistant).

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures : None in particular

Environmental precautions : None in particular

Methods and equipment for recovery and neutralization, as well as containment and purification : None in particular

7. Handling and storage

Handling

Countermeasures against the powder dust generated during use of the product or during the polishing, grinding, and deburring processes

Technical countermeasures : Carry out the countermeasures described in item 8.

Precaution for safe handling : Wear protective gear as described in item 8, and take care to prevent the powder dust from scattering.

Avoidance of contact : None in particular

Storage

Conditions for safe storage : None in particular

Safe containers and packing materials : None in particular

8. Exposure controls / personal protection

Although the product itself has no hazardous properties, use of the product in work that generates powder dust (such as work described in item 7 in the Dust Regulations Table 1) falls under the dust-producing work processes stipulated in the Ordinance on Prevention of Hazards due to Dust, as well as in the Pneumoconiosis Act. The following forms of control are required.

Controlled concentration	: Ordinance on Prevention of Hazards Due to Dust 3.0mg/m ³ (as product powder dust)
Facility countermeasures	: Install district exhaust devices in areas where powder dust is generated. If such processes are carried out in areas where it is difficult to install these devices, wear dust masks (MHLW-approved). It is also desirable to install facilities for gargling, the washing of hands, eyes, and body, changing, and laundry. Other than the abovementioned processes, it is desirable to consider the work environment and use protective gear even for general handling of the product.
Protective gear for breathing	: Dust mask (MHLW-approved)
Hand protection	: Wear rubber gloves
Eye protection	: Wear protective goggles
Skin and body protection	: Wear dust-proof clothing
Hygiene measures	: After handling the product, take thorough steps in gargling, washing of hands, etc.

9. Physical and chemical properties

Form	: Solid
Smell	: None
pH	: Not applicable
Melting point	: Not applicable
Boiling point, initial boiling point, and boiling range	: Not applicable
Flash point	: Not applicable
Ignition point	: No data
Upper and lower limits of combustion and explosion range	: Not applicable
Vapor pressure	: Not applicable
Specific gravity (relative density)	: Approx. 2.5
Solubility n-octanol/water partition coefficient	: Mostly insoluble in water and other solvents : Not applicable
Spontaneous ignition temperature	: Not applicable

10. Stability and reactivity

Reactive properties	: None in particular
Chemical reactive properties	: Stable

Potential hazardous reaction	: None in particular
Conditions that should be avoided	: None in particular
Incompatible substances	: None in particular
Hazardous decomposition products	: During combustion, irritant gases may be generated.

11. Toxicological information

Acute toxicity	: No data
Skin corrosivity and skin irritation	: No data
Serious damage to the eyes, or irritation to the eyes	: No data
Respiratory sensitivity or skin sensitivity	: No data
Germ cell mutagenicity	: No data
Carcinogenicity	: No data
Reproductive toxicity	: No data
Specific target organ toxicity—single exposure	: No data
Specific target organ toxicity—repeated exposure	: No data
Aspiration respiratory hazard	: No data

12. Ecological information

Ecotoxicity	: No data
Residual properties and degradation	: Not degradable
Bioaccumulation properties	: No data
Migratory properties in soil	: None
Hazard to the ozone layer	: No data

13. Disposal considerations

Residual waste	: Comply with the related laws when disposing of the product, such as the Waste Management and Public Cleansing Act.
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14. Transport information

- International laws : Not applicable
Domestic laws : Not applicable
Special safety measures to be taken in transportation : Other than the points noted in "Handling and storage", prevent water leakage and rough handling to maintain product quality.

15. Applicable laws

- Ordinance on Prevention of Hazards due to Dust : Work that involves the use of the product in dust-generating work falls under Annexed Table 1(7) (dust-generating work)
Pneumoconiosis Law : Work that involves the use of the product in dust-generating work falls under Annexed Table 2(7) (dust-generating work)
Does not fall under stipulations of the Industrial Safety and Health Act, Air Pollution Control Act, Water Quality Pollution Control Act, and PRTR Law

16. Other information

- References : 1) Chemicals that fall under GHS Classification, released by the Incorporated Administrative Agency National Institute of Technology and Evaluation

These contents were drawn up based on material and information that could be obtained at this point in time. However, we are unable to provide any form of warranty with respect to the data and evaluation contained in this document. The stipulations are applicable to normal handling of the substances or products. In the case of special handling of the substances or products, please put in place safety measures that are appropriate for the new usage and methods of usage when handling the substances or products.