

No. SDSE013

Drawn up: October 26, 2012

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Safety Data Sheet

1. Product and company information

Product name : XEBEC Sleeve™ (Plastic Sleeve)
Company name : XEBEC Technology Co., Ltd.
Address : 1-7-25 Koujimachi, Chiyoda-ku, Tokyo, Japan
Phone : +81-3-3239-3481
FAX : +81-3-5211-8964

2. Summary of hazardous properties

GHS classification ¹⁾ : Not applicable
Hazard to health : As the external cylinder contains glass fiber, the powder dust generated as a result of friction against the external cylinder during processing may cause skin irritation.

3. Composition / information on ingredients

Chemical substance : Mixture
/Mixture classification
Chemical name : External cylinder: Polybutylene terephthalate (PBT) and
(or general name) long glass fiber (chopped strand) hardened material
Metal parts: Stainless steel

Concentration or range : External cylinder: PBT \geq 65%, glass fiber 30%, others \leq 5%
of concentration Metal parts: SUS303
CAS No. : Polybutylene terephthalate 24968-12-5 (base resin)
Long glass fiber 65997-17-3

4. First aid measures

Countermeasures against the powder dust generated through friction against the external cylinder during processing

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 : Water, foam extinguishing agent (air foam), powder extinguishing agent, carbon dioxide

Specific extinguishing methods : It is advisable to extinguish the fire by spraying water over it. Use the same extinguishing methods as for general fires.

Specific hazardous properties : Care should be taken as it may generate harmful gases such as carbon monoxide and tetrahydrofuran, as well as carbon dioxide and water, in case of incomplete combustion.

Protection for firefighters : If the fire is strong, wear a gas mask and protective gear.

6. Accidental release measures

Personal precautions : None in particular

Environmental precautions : None in particular

7. Handling and storage

Handling

Countermeasures against the powder dust generated through friction against the external cylinder during processing

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/m³ (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 (External cylinder)

Form	: Solid
Melting point	: 228°C
Boiling point, initial boiling point, and boiling range	: Not applicable
Flash point	: Above 300°C
Ignition point	: Above 300°C
Vapor pressure	: Not applicable
Explosion limit	: Not applicable
Flammability	: Flammable (Fire Service Act, designated flammable goods, synthetic resin)
Specific gravity (relative density)	: 1.25 – 1.95 g/cm ³
Solubility	: Insoluble in water
Spontaneous ignition temperature	: Not applicable
Oxidizing properties	: Not applicable
Self-reactive/explosive properties	: Not applicable
Dust explosive properties	: Dust explosion, lower limit concentration 35g/m ³

10. Stability and reactivity

Stability and reactive properties	: Stable and not reactive under general storage and handling
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11. Toxicological information (External cylinder)

Acute toxicity	: No data
Skin corrosivity	: No data
Irritation (skin and eyes)	: Gases generated during drying and dissolution irritate the skin and eyes.
Carcinogenicity	: No data
Reproductive toxicity	: No data
Chronic toxicity	: No data
/long-term toxicity	

12. Ecological information (External cylinder)

Degradability	: No data
Accumulation	: No data
properties	
Fish toxicity	: 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
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

Fire Service Act	: Fire Service Act, designated flammable goods, synthetic resin. Designated quantity of above 3,000kg
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)

16. Other information

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