Material Safety Data Sheet

1. Company identification

1.1 Company: Hangzhou Zhuopu New Materials Co., Ltd.

1.2 Address: No. 399 North Huancheng Road, Lin'an, Hangzhou, Zhejiang 311300, P.R. China.

1.3 Tel: +86-571-58615097 Fax: +86-571-58615099

2. Substance identification

2.1Trade Name: Ceramic Filament

2.2 Components: Polymer-blend based on Poly(vinyl butyral) (PVB), contains some additives...

2.3 **CAS No:** PVB: 63148-65-2

2.4 Additional information: no harmful ingredients.

3. Hazard identification

GHS classification

The product is not classified according to GHS.

GHS label elements

Symbols None.
Signal words None
Hazard statement None.

Precautionary statement

Prevention Use personal protective equipment as required.

Response No specific first aid measures noted.

Storage Store in a dry place. Store in a closed container.

Disposal Dispose of waste and residues in accordance with local authority

requirements.

Main symptoms and emergency overview

Main symptoms Coughing.

Emergency overview Low hazard for usual industrial or commercial handling by trained

personnel. Exposure to powder or dusts may be irritating to eyes,

nose and throat.

4. First-aid measures

If powder inhaled If dust from the material is inhaled, remove the affected person

immediately to fresh air. Call a physician if symptoms develop or

persist.

If powder on skinRinse skin with water. Get medical attention if irritation develops

and persists.

If powder in eyes Do not rub eye. Rinse with water. Get medical attention if irritation

develops and persists.

If swallowed Get medical attention if symptoms occur.

Most important symptoms/ Contact with dust: Irritation of eyes and mucous membranes.

effects, acute and delayed Coughing.

Notes to physician Provide general supportive measures and treat symptomatically.

5. Fire-fighting measures

Extinguishing media Use fire-extinguishing media appropriate for surrounding

materials.

Extinguishing media to avoid Do not use a solid water stream as it may scatter and

spread fire.

Specific hazards During fire, gases hazardous to health may be formed.

Special fire fighting procedures Use standard firefighting procedures and consider the

hazards of other involved materials.

Protection of fire-fighters Selection of respiratory protection for firefighting: follow the

> general fire precautions indicated in the workplace. Selfcontained breathing apparatus and full protective clothing

must be worn in case of fire.

General fire hazards The product is not flammable. The product may form dust

> and can accumulate electrostatic charges, which may cause an electrical spark (ignition source). Use proper grounding

procedures.

6. Accidental release measures

Personal precautions, protective Avoid inhalation of dust and contact with skin and eyes.

equipment and emergency Wear appropriate personal protective equipment.

measures

Environmental precautions Environmental manager must be informed of all major

spillages.

Methods or materials for

containment and cleaning up vacuum cleaner with a HEPA filter. Do not use compressed

Avoid dust formation. Collect dust or particulates using a

air when cleaning.

7. Handling and storage

Keep container tightly closed and dry; store in a cool place below 60 °C

Avoid extreme heat. Avoid direct sunlight.

Avoid all sources of ignition: heat, sparks, opening flame. Store away from incompatible materials.

8. Physical and chemical properties

Density (20°C) 1.1g/cm³

Form filament

Melting temperature 135-210 °C

Thermal decomposition 300°C (TGA, 10 K/min)

Odour odourless

Oxidising properties not self igniting / flammable

Explosions limits not applicable

Solubility in water insoluble

9. Stability and reactivity

Reactivity The product is stable and non-reactive under normal

conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactions Hazardous polymerization does not occur.

Conditions to avoid Contact with incompatible materials. Avoid dust close

to ignition sources.

Incompatible materials Strong oxidizing agents. Strong acids.

Hazardous decomposition products Carbon monoxide.

10.Toxicological information

Acute toxicity Dusts may irritate the respiratory tract, skin and eyes.

Skin corrosion/irritation Dust may irritate skin.

Serious eye damage/eye irritation Dust may irritate the eyes. Exposed individuals may

experience eye tearing, redness, and discomfort.

Respiratory or skin sensitization Respiratory sensitization Not classified. Skin

sensitization Not a skin sensitizer.

Germ cell mutagenicityNot expected to be mutagenic.

Carcinogenicity Not classified.

Reproductive toxicity Not classified.

Specific target organ toxicity single No data available.

exposure

Specific target organ toxicity repeated No data available.

exposure

Aspiration hazardDue to the physical form of the product it is not an

aspiration hazard.

Other information Pre-existing skin and respiratory conditions including

dermatitis, asthma and chronic lung disease might be

aggravated by exposure.

11. Ecological information

EcotoxicityThe product is not classified as environmentally

hazardous. However, this does not exclude the possibility that large or frequent spills can have a

harmful or damaging effect on the environment.

Persistence and degradability No data available.

Bioaccumulation No data available.

Mobility in soil No data available.

Hazardous to the ozone layer Not available.

12. Disposal considerations

Residual wasteDispose of in accordance with local regulations.

Contaminated packaging Dispose of in accordance with local regulations.

Local disposal regulationsDispose of in accordance with local regulations

13. Regulatory information

Complies with TSCA.

14.Other information

Please call to (86)571-58615097 or visit to our website: www.cc3dchina.com

Important:

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