



## Material Safety Data Sheet

Free Foam Polyvinylchloride

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Free Foam Polyvinylchloride  
**Product Name :** Advertising/decorative/architectural sheet  
**Supplier Information**  
**Company Name:** CGATE GROUP CO., LTD  
**Address:** 7F B1, Junyao International Plaza, No.789 Zhaojiabang Road Shanghai, P.R.C.  
**Tel:** 86-21-64229726/7/8  
**Fax:** 86-21-64229725  
**Email:** Steven@cgategroup.cn  
**Emergency Telephone:** 13061626333

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/Preparation:** Preparation

Ingredients Name	Content/%	CAS NO.
Polyvinylchloride	70-90%	9002-86-2
Ca, Zn Stabilizer	1-5%	-
Epoxidized Soybean oil	1-5%	8013-07-8
Foam Agent	0.01-0.1%	-
Foam adjustment agent	5-10%	-
Pe Paraffin	0.1-1%	-
White-Promoting agent	0.01-0.1%	-
Stearate	0.1-1%	-
ARC processing agent	1-5%	-

**Note:** See Section 8 of MSDS for exposure limit data for these ingredients.

#### The preparation is not classified as dangerous under the Hazard Communication Standard

This MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of the product.

### 3. HAZARDS IDENTIFICATION

#### Emergency Overview

Under standard conditions of use, this product is not expected to create any unusual emergency hazards. This is a non-combustible, non-reactive solid material. Use methods suitable to fight surrounding fire. Contact with the eye may result in mechanical irritation characterized by itching or redness.



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Due to product form, exposures to dusts and fumes are not expected to occur. If this product is cut with power cutting equipment (such as saws), dust generated may cause respiratory irritation, and congestion in extreme cases. Prolonged and excessive skin contact may result in slight irritation.  
Routes of Exposure: Inhalation, skin, and eye contact.

#### Potential Health Effects

**Eyes:** Particulates from this product may cause mechanical irritation of the eye from cutting, grinding or drilling of the product. Continued mechanical irritation of the eye could result in permanent corneal damage.

**Skin:** This product may produce skin abrasions. Mechanical rubbing may increase skin irritation.

**Ingestion:** Not a likely route of entry.

**Inhalation:** Inhalation of dusts produced during cutting, grinding or sanding of this product may cause irritation of the respiratory tract.

**HMIS Ratings: Health: 0 Fire: 1 Physical Hazard: 0**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

#### 4. FIRST AID MEASURES

**Eye contact:** Do not rub or scratch eyes. Dust particles may cause eyes to be scratched. Flush eyes with large amounts of water for 5-15 minutes. If irritation persists, contact a physician.

**Skin contact:** Wash exposed skin with soap and water. If irritation develops or persists, seek medical attention.

**Ingestion:** Product is not intended to be ingested or eaten. If the product is ingested, do not induce vomiting. Seek medical attention.

**Inhalation:** Move person to non-contaminated air. Call a physician if symptoms develop or persist.

#### 5. FIRE FIGHTING MEASURES

##### Flammable Properties

**Flash Point:** Not applicable

##### Flammable limits

**LFL:** Not Applicable

**UFL:** Not Applicable



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**General Fire Hazards:** See Section 9 for Flammability Properties. None expected.

**Hazardous Combustion Products:**

The decomposition products from this material are those that would be expected from any organic (carbon-containing) material, and are mainly derived from pyrolysis, or burning, of the polymer. These decomposition products may include carbon dioxide, carbon monoxide, carbon particles, hydrocarbons, chlorine, hydrogen, chloride, phosgene, and formaldehyde. This product should not be burned as construction waste.

**Extinguishing Media:** Use any media suitable for the surrounding fires. Water, spray, fog, carbon dioxide (CO<sub>2</sub>), dry chemical, foam.

**Fire Fighting Equipment/Instructions:**

Firefighters should wear full-face, self-contained breathing apparatus and impervious protective clothing. Firefighters should avoid inhaling any combustion products. Do not release chemically contaminated water into drains, soil or surface water.

**NFPA Ratings: Health: 0 Fire: 1 Reactivity: 0**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

### 6. ACCIDENTAL RELEASE MEASURES

**Containment Procedures:**

None necessary.

**Clean-Up Procedures**

Sweep up or gather material and place in appropriate container for disposal. This product should not be burned as construction waste.

**Evacuation & Special Procedures**

None necessary.

### 7. HANDLING AND STORAGE

**Handling Procedures**

Customary personal hygiene measures, such as hands washing after working with these products are recommended.

**Storage Procedures**

Room temperature - standard conditions. Warehouse storage should be in accordance with package directions, if any. Material should be kept dry, and protected from the elements.



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### 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

**Exposure limit values:** not applicable.

#### Engineering Controls

No special protective measures are necessary for use of this product in that it is an article, and under normal conditions of use is not expected to release, or otherwise result in exposure to a hazardous chemical.

#### PERSONAL PROTECTIVE EQUIPMENT

##### Personal Protective Equipment: Eyes/Face

Safety glasses with side-shields may be worn to reduce the risk of eye injury due to construction related activities.

##### Personal Protective Equipment: Skin

Under normal conditions of use this product is not expected to cause skin irritation. To reduce the risk of skin irritation due to construction-related activities leather or other appropriate work gloves are recommended.

##### Personal Protective Equipment: Respiratory

No special ventilation systems are required under normal conditions of use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Vapor Pressure (mm Hg @ 20°C):** Not Applicable

**PH:** Not Applicable

**Vapor Density (Air=1):** Not Applicable

**Specific Gravity:** 0.6g/cm<sup>3</sup>

**Coefficient of linear expansion:** DIN EN ISO 75-2 mm/(m·K)  
1 – 4 mm: 0,056 5 – 19 mm: 0,066

**Coefficient of thermal conductivity λ:** DIN EN ISO 12664 / 12667 / 12939 W/(m·K)  
1 – 4 mm: 0,081 5 – 19 mm: 0,066

**Boiling Point:** Not Applicable



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<b>Flash Point:</b>	Not Applicable
<b>Solubility in Water:</b>	Insoluble
<b>Viscosity:</b>	Not Applicable
<b>Appearance:</b>	Foam PVC sheet
<b>Color:</b>	Various (mainly white and black).
<b>Odor:</b>	Negligible
<b>Freezing Point:</b>	Not Applicable
<b>Evaporation Rate (n-Butyl Acetate=1):</b>	Not Applicable

### 10. STABILITY AND REACTIVITY

#### Chemical Stability

Stable under normal conditions.

#### Chemical Stability: Conditions to Avoid

None identified.

#### Incompatibility

None identified.

#### Hazardous Decomposition

The decomposition products from this material are those that would be expected from any organic (carbon-containing) material, and are mainly derived from pyrolysis, or burning, of the polymer. These decomposition products may include carbon dioxide, carbon monoxide, carbon particles, hydrocarbons, chlorine, hydrogen, chloride, phosgene, and formaldehyde.

#### Possibility of Hazardous Reactions

None expected.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity data

No toxicity data available for this product.

#### Carcinogenicity:

PVC (Chloroethylene, polymer) (9002-86-2)



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IARC: Supplement 7, 1987; Monograph 19, 1979 (Group 3 (not classifiable))

#### Mutagenicity

No information available for the product.

#### Teratogenicity

No information available for the product.

#### Developmental Effects

No information available for the product.

### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### General Product Information

No information available for the product.

##### Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

#### Environmental Fate

No information available for the product.

### 13. DISPOSAL CONSIDERATIONS

Subject to legislation by local authorities, the product can be disposed of together with domestic refuse and industrial waste. Waste and residues can be incinerated in a plant equipped with flue gas washing, together with domestic waste.

### 14. TRANSPORT INFORMATION

**Proper shipping name:** This product is not classified a hazardous material for transport.

**Hazard class:** None

**Packing group:** None

**Identification number:** None

**DOT:** This product is not classified a hazardous material for transport.

### 15. REGULATORY INFORMATION



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Product is not considered to be a hazardous chemical under the Hazard Communication Standard.

### Inventory Status

Inventory

Status

United States (TSCA)

All ingredients are on the inventory or exempt from listing.

This plastic foam does not require marking under the dangerous substances and preparation directives 67/548/EWG and 1999/45/EG.

### 16. OTHER INFORMATION

**Issue Date:** Dec. 27, 2007

This information and these recommendations are offered in good faith and believed to be correct as of the date hereof. Information and recommendations are supplied upon the condition that the recipients will make their own decision as to safety and suitability for their purposes. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, are made with respect to the product or the information and recommendations. We make no representation as to completeness or accuracy. In no event we shall be responsible for damages of any nature whatsoever resulting from the use or reliance upon the information and recommendations.

\* \* \* END OF MSDS \* \* \*