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NO.2611030032

## MATERIAL SAFETY DATA SHEET

**Product Name:** Expandable Polystyrene Resin

**Revision Date:** 2011-04-07

**Compiler:** Wu Juan

**Checker:** Dongxuesheng

**Approver:** Zhangxiangjin



Shanghai Research Institute of Chemical Industry Testing Centre  
Shanghai Classification and Testing Centre of Dangerous  
Chemicals for State Administration of Work Safety

# Jiangsu Sunchem New Materials Co., Ltd.

## MATERIAL SAFETY DATA SHEET

### Expandable Polystyrene Resin

#### SECTION1 PRODUCT AND COMPANY IDENTIFICATION

Product name: Expandable Polystyrene Resin  
 Company: Jiangsu Sunchem New Materials Co., Ltd.  
 Address: No.1313 West Binjiang Road, Jiangyin City, 214446, P.R.China  
 Email: ie.sc@sunchemeps.com  
 Fax: 86-510-86668774  
 Emergency Phone: 86-510-86668643  
 MSDS Number: 2611030032  
 MSDS Date: 2011-04-07

#### SECTION2 INFORMATION ON INGREDIENTS

Product name: Expandable Polystyrene Resin

Ingredient	Concentration	CAS No.	EC No.
Poly(styrene)	93-95%	9003-53-6	500-008-9
Pentane	5-7%	109-66-0	203-692-4

#### SECTION3 HAZARDS IDENTIFICATION

**Hazards Identification:**

9 miscellaneous.

**Emergency Overview:**

May cause irritation to eyes. Inhaling vapour may cause irritation to respiratory system.

#### SECTION4 FIRST-AID MEASURES

**Skin Exposure:**

In case of contact, flush with copious amounts of water for at least 15minutes. Remove contaminated clothing and shoes. Call a physician.

**Eye Exposure:**

In case of contact, flush with copious amounts of water for at least 15minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Inhalation Exposure:**

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

**Oral Exposure:**

If swallowed, immediately wash out mouth with water provided person is conscious. Call a physician.

#### SECTION5 FIRE FIGHTING MEASURES

**Extinguishing Media:**

Suitable: Water spray, dry chemical, carbon dioxide or alcohol-resistant foam.

**Firefighting:**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

#### SECTION6 ACCIDENTAL RELEASE MEASURES

**Procedure of Personal Precaution:**

Exercise appropriate precautions to minimize direct contact with skin and eyes.

**Methods for Cleaning up:**

Sweep up with spade and transfer to a dry, clean, lidded container for disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

#### SECTION7 HANDLING AND STORAGE

**Handling:**

Wear appropriate protective clothing and gloves. Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Mechanical exhaust required. Keep away from ignition sources, heat and flame. Beware of pentane vapours with air accumulating to form explosive concentrations. Take precautionary measures against static discharges. Incompatibilities: strong oxidizing agents, organic solvent. No smoking at working site.

**Storage:**

Store in a cool, dry and well-ventilated area. Keep away from ignition sources, heat and flame. Keep away from combustible materials. Store in a tightly closed container. Incompatibilities: strong oxidizing agents, organic solvent.



**SECTION8 EXPLOSURE CONTROL/PPE****Engineering Controls:**

Use ventilation equipment. Safety shower and eye bath.

**Personal Protective Equipment:**

Respiratory: Wear government approved respirator.

Eye: Wear chemical safety glasses.

Clothing: Wear appropriate protective clothing.

Hand: Wear compatible protective gloves.

**Other Protect:**

No smoking, drinking and eating at working site. Wash thoroughly after handling.

**SECTION9 PHYSICAL/CHEMICAL PROPERTIES**

Appearance: Off-white ball granule

Odor: Weak odor

Melting Point/°C: >135°C decomposition

Solubility: Hardly soluble in water

**SECTION10 STABILITY AND REACTIVITY****Stability:**

Stable under normal temperatures and pressures.

**Conditions to Avoid:**

Heat and flame.

**Materials to Avoid:**

Strong oxidizing agents, organic solvent.

**Hazardous Polymerization:**

Will not occur.

**Hazardous Decomposition Products:**

Carbon monoxide, Carbon dioxide.

**SECTION11 TOXICOLOGICAL INFORMATION****Toxicity Data:**

Pentane: Rat Inhalation LC<sub>50</sub> 364000mg/m<sup>3</sup>/4H

**Irritation Data:**

May cause irritation to eyes. Inhaling vapour may cause irritation to respiratory system.

**SECTION12 ECOLOGICAL INFORMATION****Ecotoxicity:**

Pentane: Toxicity to daphnia and other aquatic invertebrates EC<sub>50</sub> - Daphnia magna (Water flea) - 9.74 mg/l - 48 h

**Persistence and Degradability:**

Biodegradability Biotic/Aerobic

Result: 70 % - Readily biodegradable

**SECTION13 DISPOSAL CONSIDERATION****Appropriate Method of Disposal of Substance:**

Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

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**SECTION14 TRANSPORT INFORMATION**

**RID/ADR:** Proper Shipping Name: Polystyrene beads, expandable, evolving flammable vapour  
 Hazard Class: 9  
 UN Number: UN 2211  
 Packing Group: III

**IATA:** Proper Shipping Name: Polystyrene beads, expandable, evolving flammable vapour  
 Hazard Class: 9  
 UN Number: UN 2211  
 Packing Group: III

**IMO:** Proper Shipping Name: Polystyrene beads, expandable, evolving flammable vapour  
 Hazard Class: 9  
 UN Number: UN 2211  
 Packing Group: III  
 EmS No. : F-A, S-I

**SECTION15 REGULATORY INFORMATION****EU Additional Classification:**

S: 2 3/7 15

Safety Statements: Keep out of the reach of children. Keep container tightly closed in a cool place.  
 Keep away from heat.

**SECTION16 OTHER INFORMATION**

**Date:** 2011-04-07

**Department:** Shanghai Research Institute of Chemical Industry Testing Centre  
 Shanghai Classification and Testing Centre of Dangerous Chemicals for State Administration  
 of Work Safety  
 Tel (Fax) :8621-52815377/52800971/52807275/52811034/52569800

**Revision:** 0

**Other Information:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes. In no way shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising from using the above information. If necessary (such as: the ingredients change, the governments require, the new hazards affirmed, etc.), this MSDS/SDS shall be amended.



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