



CNAS IB0071



NO.2615080068

SAFETY DATA SHEET

Product Name: Expandable Polystyrene Resin

Revision Date: 2015-09-15

Compiler: Liu Linyin

Checker: Fengzhao

Approver: Zhangxiangjin



Shanghai Research Institute of Chemical Industry Testing Centre

Jiangsu Sunchem New Materials Co., Ltd

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, Jiangsu Province, 214446,
P.R.China
Email: ie@sunchemeps.com
Fax: 86-510-86668774
Emergency Phone: 86-510-86668774
SDS Number: 2615080068
SDS Date: 2015-09-15

SECTION2 HAZARDS IDENTIFICATION

Hazards Identification:

Pentane in the product

GHS Classification:

Flammable liquids (Category 2)

Specific target organ toxicity - Single exposure (Category 3) (Narcotic effects)

Aspiration Hazard (Category 1)

Acute aquatic toxicity (Category 2)

Chronic aquatic toxicity (Category 2)

The hazards not mentioned are not applicable or no data available.

Emergency Overview:

Expand when heated, evolving flammable vapour. There may be a dust explosion hazard.

Pentane in the product:

Highly flammable liquid and vapour. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

SECTION3 INFORMATION ON INGREDIENTS

Product name: Expandable Polystyrene Resin

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

SECTION4 FIRST-AID MEASURES

Skin Exposure:

In case of contact, immediately wash skin with copious amounts of water. If irritation persists, call a physician.

Eye Exposure:

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

Inhalation Exposure:

If inhaled, remove to fresh air. If breathing is difficult, give oxygen.

Oral Exposure:

If victim is conscious, wash mouth out with water. Get medical aid immediately.

SECTION5 FIRE FIGHTING MEASURES

Extinguishing Media:

Suitable: Water spray, Dry chemical, Carbon dioxide or appropriate foam.

Firefighting:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Fire-extinguishing work is done from the windward. Uninvolved persons should evacuate to a safe place. Keep containers cool by spraying with water.

SECTION6 ACCIDENTAL RELEASE MEASURES

Procedure of Personal Precaution:

Use personal protective equipment. Remove all sources of ignition. Avoid breathing vapors, mist or gas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to noninvolved personnel should be controlled around the leakage area by roping off.

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.

Environmental precautions:

Do not let product enter drains. Discharge into the environment must be avoided.

SECTION7 HANDLING AND STORAGE

Handling:

Wear appropriate protective clothing and chemical safety gloves. Avoid contact with eyes, skin and clothings. Avoid inhalation. Avoid dust formation. Mechanical exhaust required. Keep away from heat, sparks and flame. Incompatibilities: Strong oxidizing agents. Wash hands and face thoroughly after handling. No smoking at working site.

Storage:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks, and flame. Keep away from sources of ignition. Incompatibilities: Strong oxidizing agents.

SECTION8 EXPOSURE CONTROL/PPE

Exposure Limits:

Pentane: ACGIH TLV(TWA): 1000 ppm

Engineering Controls:

Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment:

Respiratory: Government approved respirator.

Eye: Chemical safety goggles.

Clothing: Wear appropriate protective clothing.

Hand: 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: >80°C decomposition

pH Value: 7.2 (25°C, 50.0 g/L)

Solubility: Slightly soluble in water

SECTION10 STABILITY AND REACTIVITY**Stability:**

Stable under normal temperature and pressure.

Conditions to Avoid:

Heat, flames and sparks. Extremes of temperature.

Materials to Avoid:

Strong oxidizing agents.

Hazardous Polymerization:

Will not occur.

Hazardous Decomposition Products:

Carbon oxides.

SECTION11 TOXICOLOGICAL INFORMATION**Acute toxicity:**

Pentane: Rat Inhalation LC₅₀: 364 g/m³/4H

Skin corrosion/irritation:

No data available.

Serious eye damage/irritation:

No data available.

Specific target organ toxicity - single exposure:

Pentane: May cause drowsiness or dizziness.

Aspiration hazard:

Pentane: May be fatal if swallowed and enters airways.

SECTION12 ECOLOGICAL INFORMATION**Toxicity:**

Pentane: Toxicity to daphnia and other aquatic invertebrates EC₅₀ - Daphnia magna (Water flea) - 9.74 mg/l - 48 h

Persistence and degradability:

Pentane: Biodegradability Biotic/Aerobic - Exposure time 192 h

Result: 70 % - Readily biodegradable.

Bioaccumulative potential:

No data available.

Mobility in soil:

No data available.

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

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

SECTION14 TRANSPORT INFORMATION

RID/ADR: Proper Shipping Name: Polymeric beads, expandable, evolving flammable vapour
UN Number: UN2211
Hazard Class: 9
Packing Group: III

IATA: Proper Shipping Name: Polymeric beads, expandable, evolving flammable vapour
UN Number: UN2211
Hazard Class: 9
Packing Group: III

IMO: Proper Shipping Name: Polymeric beads, expandable, evolving flammable vapour
UN Number: UN2211
Hazard Class: 9
Packing Group: III
EmS No: F-A, S-I

SECTION15 REGULATORY INFORMATION**Regulation (EC) No.1272/2008 and its amendments:**

Pentane in the product:
Flammable liquids (Category 2)
Specific target organ toxicity - Single exposure (Category 3) (Narcotic effects)
Aspiration Hazard (Category 1)
Chronic aquatic toxicity (Category 2)

SECTION16 OTHER INFORMATION**Date:**

2015-09-15

Department:

Shanghai Research Institute of Chemical Industry Testing Centre
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.

