



MATERIAL SAFETY DATA SHEET

Product name: SHUFFLE POWDER

IDENTIFICATION OF MATERIAL, AND SUPPLIER

This data sheet applies to all grades of SPACEL EPS which do not contain fire retardant additives. These grades are identified by the second digit "0" (zero) or an even number in the EPS grade numbers eg. SPACEL 4461, SPACEL 6661, etc.

OTHER NAMES: Expandable polystyrene resin.
Polystyrene containing dissolved pentane blowing agent.
Polystyrene beads, expandable, evolving flammable vapours.

NOT HAZARDOUS ACCORDING TO THE CRITERIA OF HOHSC

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1. HAZARDS IDENTIFICATION

Health hazard classification

This material is classified as NOT hazardous according to the health criteria of NOHSC Australia.

RISK PHRASE(S)

None allocated

SAFETY PHRASE(S)

None allocated

DANGEROUS GOODS CLASSIFICATION

Classified as Dangerous Goods by criteria of the Australian Code for Transport of Dangerous Goods by Road and Rail (ADG Code)

Class 9 (Miscellaneous Dangerous Goods)

POISONS SCHEDULE (AUST) None allocated

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MSDS No. S10010257

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2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL ENTITY	CAS NO	PROPORTION (%weight/weight)
Polystyrene	9003-53-6	92-95
n-Pentane	109-66-0	5-8
Isopentane	78-78-4	
Styrene	100-42-5	< 0.2

3. FIRST AID MEASURES

For advice, contact Poisons Information Centre (Phone 131126) or a Doctor.

Ingestion:

Swallowing unlikely. If swallowed, obtain medical attention.

Eye Contact:

If in the eyes, flush with water for at least 15 minutes. Retract eye lid soften. If discomfort persists seek medical attention .

Skin Contact:

Remove contaminated clothing as needed, wash skin thoroughly with soap and water. If sticky use waterless cleaner first

Inhalation:

Remove to fresh air. If not breathing give artificial respiration. If breathing difficult give oxygen. Obtain medical attention.

First Aid Facilities:

Provide facilities for washing eyes and skin.

ADVICE TO DOCTOR

Treat symptomatically.

4. FIRE-FIGHTING MEASURES

In use, may form flammable vapour. The solid material is combustible.

The fire and explosion hazard can be positively controlled by appropriate safety practises (see, storage and transport section).

Suitable extinguishing media:

Water, foam, carbon dioxide and dry chemical.

Hazards from combustion products:

Decomposition products at greater than about 240 deg.C include carbon dioxide, carbon monoxide, smoke, styrene and other hydrocarbons.

Hazchem code 3{Y}

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5. ACCIDENTAL RELEASE MEASURES

Emergency procedures:

Spill releases flammable vapour. Eliminate ignition source and ventilate confined spaces. Creates dangerous slipping hazard on any hard or smooth surface. Sweep or vacuum immediately.

Methods and materials for containment and clean up procedures:

Product waste is considered to be a “hazardous waste” due to potential evolution of flammable vapour. If feasible, recycle.

Waste beads may need to be aged for several days open to atmosphere to allow release of sufficient pentane to minimise the fire risk during disposal. The absence of pentane odour is a good indication that the beads are safe for disposal. The beads should be stored in a well-ventilated area in good containers away from source of ignition.

6. HANDLING AND STORAGE

Precautions for safe handling:

In use, may form flammable vapour.

When container is opened or broken, flammable vapour(pentane) is released which is heavier than air and can travel along the ground/floor. Allow 5 minutes before using.

Keep raw beads, away from flames, sparks or heat. Use only in well ventilated areas.

Conditions for safe storage:

Keep away from sources of ignition-no smoking. Keep container tightly closed and in a cool well-ventilated area. Store away from strong oxidising agents.

7. EXPOSURE CONTROLS / PERSONAL PROTECTION

National exposure standards:

No exposure standard is published by NOHSC Australia for EPS.

Engineering Controls

Provide sufficient ventilation to control exposure levels.

Personal Protection:

Avoid breathing vapour and/or dust. If inhalation risk, use respiratory protection equipment.

Eye:

Safety glasses with side shields can be worn to prevent injury from flying particles.

Glove Type:

Protective gloves (eg. Cotton or leather) recommended if slight irritation occurs.

Other Personal Protection:

Handle in accordance with good industrial hygiene and safety practices. Avoid unnecessary exposure. Remove material from eyes, skin and clothing.

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8. STABILITY AND REACTIVITY

Chemical stability:

The product is stable under normal conditions of storage and transport.

Conditions to avoid:

Keep away from source of ignition – No smoking.

Incompatible materials:

Keep away from strong oxidising agents.

Hazardous decomposition products:

Thermal decomposition products may include carbon monoxide and carbon dioxide.

Decomposition products at greater than about 240 deg. C include carbon dioxide, carbon monoxide, smoke, styrene and other hydrocarbons.

Hazardous reactions:

Will not polymerise.

9. TOXICOLOGY INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms that may arise if the product is mishandled are:

HEALTH EFFECTS

Acute-Swallowed:

No significant effects expected.

Acute-Eye:

Mild irritation (based on pentane blowing agent).

Acute-Skin:

Mild irritation (based on pentane blowing agent).

Acute-Inhalation:

Prolonged overexposure may cause coughing , shortness of breath, dizziness and intoxication(based on pentane blowing agent).

Chronic:

No chronic health effects for this material have been reported.

10. ECOLOGICAL INFORMATION

Ecotoxicity:

Not available.

Persistence/degradability:

Not available.

Mobility:

Floats on water.

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11. DISPOSAL CONSIDERATIONS

Disposal methods:

Product waste is considered to be “hazardous waste” due to potential evolution of flammable vapour. If feasible recycle. The absence of pentane odour is a good indication that the beads are safe for disposal.

Containers:

Dispose of liner bags by landfill. Flexible bulk bags, cardboard boxes and emptied drums should be recycled where possible.

12. TRANSPORT INFORMATION

Road and Rail Transport (ADG code)

UN Number: 2211
Proper Shipping Name: POLYMERIC BEADS, EXPANDABLE
Dangerous Goods Class: 9 (Miscellaneous Dangerous Goods)
Subsidiary Risk: None allocated
Packaging Group: III
Hazchem Code: 3(Y)
Emergency Information: IER Guide 20

Marine Transport (MDG Code)

UN Number: 2211
Proper Shipping Name: POLYMERIC BEADS, EXPANDABLE
Dangerous Goods Class: 9 (Miscellaneous Dangers Goods)
Subsidiary Risk: None allocated
Packing Group: III

Air Transport (IATA Regulations)

UN Number: 2211
Proper Shipping Name: POLYMERIC BEADS, EXPANDABLE
Dangerous Goods Code: 9 (Miscellaneous Dangerous Goods)
Subsidiary Risk: None allocated
Packing Group: III

Dangerous Goods Segregation (ADG Code)

Do not load and pack with Class 1 (Explosives). Do not load and pack with Class 5.1 (Oxidising Agents). Transport in accordance with State and Territory regulations for Dangerous Goods.

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13. REGULATORY INFORMATION

Country/Region	Inventory	Status
Australia	AICS	Listed

Poisons schedule: None allocated

14. OTHER INFORMATION

Abbreviations:

AICS :	Australian Inventory of Chemical Substances
IERG:	Initial Emergency Response Guide (SAANZS HB: 76)
IMDG Code:	International Maritime Dangerous Goods Code
IATA Regulations:	International Air Transport Association Regulations
NOHSC:	National Occupational Health and Safety Commission Australia

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