

Safety Data Sheet (SDS) for Smithers Foams
OSHA Hazard Communication Standard 29 CFR 1910.1200. Prepared to GHS Rev 04.
Date Issued: 05/20/2015;

1. Identification

Product identifier used on label: **Smithers Foams**

Other means of identification, synonyms, etc.: None

Recommended use of the product and restrictions on use: Substrate for the manufacturing of thermal energy storing refrigerants.

Manufacturer/Supplier:

Smithers-Oasis North America

919 Marvin Street

P.O. Box 790

Kent, Ohio 44240

Phone:

800-321-8286 (Customer Service)

Fax:

800-447-0813

Emergency telephone number(s):

Emergency Contact:

Rocky Mountain Poison & Drug Center: 303-623-5716 or 877-740-5015

Transportation Emergency: CHEMTREC: 800-424-9300

2. Hazards Identification

Classification of the substance or mixture:

Physical hazards: Not classified

Health hazards: Not classified

OSHA defined hazards: Not classified

Label elements:

Hazard pictograms: None

Signal word: None

Hazard statements: None

Precautionary statements:

Prevention: Observe good industrial hygiene practices.

Response: Wash hands after handling.

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Storage: Store in cool, dry place and out of direct sunlight, and away from heat sources.

Disposal: Foam is considered RCRA non-hazardous and can be disposed as residential or commercial waste sent to a permitted solid waste landfill.

Hazards not otherwise classified: None

3. Composition Information on Ingredients

Chemical characterization: Pink fine-celled thermoset phenolic plastic foam which is foamed to a specific shape or design during manufacture. It is considered an Article under the OSHA Hazard Communication Standard at 29 CFR 1910.1200 (c), and is further included in Section 15 Regulatory Information of this SDS.

Chemical Name and concentration: Residual ingredients are encapsulated in the thermoset polymer structure.

Description: Phenolic plastic foam.

4. First Aid Measures

General information:

Inhalation: Surface dust could become air-borne, and may present a nuisance.

Skin contact: Generally the product should not irritate the skin.

Eye contact: Fugitive dust associated with handling could enter the eyes and cause discomfort. If this event occurs:
Remove contact lenses; and.
Rinse opened eye for several minutes under running water.
If symptoms persist, get medical attention.

Ingestion: If ingested, do not induce vomiting. Treat symptomatically and supportively. If a large quantity is ingested get medical attention since there could be a problem with physical blockage of digestive tract.

Most important symptoms / effects, acute and delayed: Fugitive dust may cause eye discomfort.

Indication of immediate medical attention and special treatment needed: Treat the symptoms and call the emergency number.

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5. Fire Fighting Measures

Suitable extinguishing media: Water spray, foam, carbon dioxide or dry chemical.

Unsuitable extinguishing media: None known.

Special hazards arising from the substance or mixture: During fire, hazardous gases are expected to be given off.

Special protective equipment and precautions for firefighters: Firefighters should wear full protective bunker gear used in fighting fires, including self-contained breathing apparatus.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Waste/scrap foam, not previously used to absorb hazardous chemicals, can be handled with minimum protective gear, if any. See Section 8 for addition information on this.

Environmental precautions: None recommended.

Methods and material for containment and cleaning up: Dispose contaminated material as waste according to Section 13.

7. Handling and Storage

Precautions for safe handling: Observe good industrial hygiene practices. Restrict eating and drinking should the foam be handled in a manner that results in noticeable levels of fugitive dust.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities: Store in original containers protected from direct sunlight in a dry environment until ready to use. Foam product will absorb liquids. Keep away from heat source.

8. Exposure Controls / Personal Protection

Occupational exposure limits: There are no components with exposure limit values that require monitoring at the workplace.

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Appropriate engineering controls: Routine or normal general building ventilation if used indoors.

Individual Protection Measures:

Follow general protective and hygienic measures: Keep away from foodstuffs and beverages.
Wash hands before breaks and at the end of work.
Wash clothes with dust on them.
Keep dust out of eye(s).

Respiratory Protection: None required.

Hand Protection: Use latex gloves if handling the foam is bothersome.

Eye Protection: Wear chemical goggles if fugitive dust is an issue.

Other protective clothing or equipment: None normally required.

9. Physical and chemical properties

Appearance:
Physical state: Solid
Color: Pink
Odor: Slight pungent odor
Odor threshold: Not available.
Vapor pressure at 20 °C (68 °F): Not applicable
Vapor density: Not available.
Relative density: Not available.
pH value: Solid, slightly acidic.
Change in condition:
Melting point/Melting range: Not applicable.
Boiling point/Boiling range: Not applicable.
Flash point: Not applicable.
Flammability (solid, gaseous): Not applicable.
Flammable or explosion limits:
Lower/Upper: Not available.
Ignition temperature: 600 °F
Auto ignition temperature: Product is not self-igniting.
Decomposition temperature: Not available.
Danger of explosion: Product does not present an explosion hazard as shipped.
Solubility in/miscibility with water: Not applicable.
Evaporation rate: Not available.
Partition coefficient (n-octanol/water): Not available.
Viscosity:
Dynamic/Kinematic: Not available.
Solvent content:
Organic solvents: Not applicable.

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Water: Moisture content < 6%
Solids content: >94%
Other information: Not available.

10. Stability and Reactivity

Reactivity: None expected.

Chemical Stability: Stable under anticipated use conditions.

Possibility of hazardous reactions: No known dangerous reactions.

Conditions to be avoided: No known conditions to be avoided.
Keep away from direct flame. Foam will support combustion.

List of incompatible materials: No known incompatible materials.

Hazardous decomposition products: Under fire conditions, product may decompose and give off fumes of carbon monoxide, carbon and sulfur dioxide, and other decomposition products.

11. Toxicological information

Information on the likely routes of Exposure: Skin and eye contact.

Description of delayed, immediate or chronic effects from short and long term exposure: Fugitive dust could enter the eye and cause discomfort.
Surface dust could become air-borne, and may present a nuisance.

Acute Toxicity:

Ingestion: Oral LD 50 (rat) on a similar compound > 5,000 mg/kg.
May be harmful if ingested, could present a choking hazard.

Inhalation: Not a likely route of entry other than nuisance dust.

Skin: Dermal Irritation Study on Albino Rabbits on a similar compound: Tested non Irritant.
Dust on skin may annoy handler.

Eye: Fugitive dust may be abrasive and annoying.

Description of the symptoms: Eye soreness or red ness and coughing.

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Sensitization: No sensitizing effects known.

Carcinogenic listings: Foam is not listed by either NTP or IARC.

12. Ecological Information

Aquatic toxicity: Not available.

Persistence and degradability: Not available.

Behavior in environmental systems: Not available

Bioaccumulative potential: Not available.

Mobility in soil: Not available.

Additional ecological information: None.

General notes: None.

Other adverse effects: None known.

13. Disposal Considerations

Disposal instructions: If discarded in its original form, this material is not regulated by Resource Conservation and Recovery Act (RCRA) as a hazardous waste. Passes TCLP test requirements.

Reusing is recommended. It can be cut up and used as a soil conditioner. Since it dries faster than regular soils, it can be used to aerate tightly packed clay type soils.

Local disposal regulations: Disposal must be made in accordance with any applicable state or local disposal restrictions.

Waste after use as an absorbent: The information presented above is for the product as shipped. Use as an absorbent may significantly change the RCRA characteristics of the resultant material and alter the waste classification and recommended proper disposal method.

14. Transport Information

DOT Non-Bulk: Not regulated

DOT Bulk: Not regulated

IMDG: Not regulated

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ICAO/IATA: Not regulated

Special precautions for user: None

**Transport in bulk according to Annex II
Of MARPOL 73/78 and the IBC Code 4:** Not applicable.

15. Regulatory Information

OSHA: This product is considered an "article" under OSHA Hazard Communication Standard, and is considered exempt therefrom. The OSHA article definition is defined at 29 CFR 1910.1200 (c) as follows:

Article means a manufactured item other than a fluid or particle: (i) Which is formed to a specific shape or design during manufacture; (ii) Which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) Which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical (as determined under the hazard determination provisions of the standard), and does not pose a physical hazard or health risk to employees.

SARA Section 311 Hazard Categories:

Acute (Immediate) Health Hazard:	No
Chronic (Delayed) Health Hazard:	No
Fire Hazard:	No
Reactive Hazard:	No
Sudden Release of Pressure:	No

US TSCA: All components are listed or exempt from listing.

Canadian DSL: Listed

16. Other Information

NFPA ratings (scale 0 - 4)

Health	= 1
Fire	= 1
Reactivity	= 0



HMIS-ratings (scale 0 - 4)

Health	= 1
Fire	= 1
Reactivity	= 0

Classification system: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe

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Key/Legend:

ACGIH:	American Conference of Governmental Industrial Hygienists
ACGIH TLV:	ACGIH Threshold Limit Values
ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS:	Chemical Abstract Service
CERCLA:	Comprehensive Environmental Response, Compensation and Liability Act
CFR:	Code of Federal Regulations
CNS:	Central Nervous System
CPR:	Controlled Product Regulations
DOT:	US Department of Transportation
DSL:	Domestic Substances List
EINECS:	European Inventory of Existing Commercial Chemical Substances
HMIS:	Hazardous Material Identification System
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association
IDL:	Ingredient Disclosure List
IMDG:	International Maritime Code for Dangerous Goods
NFPA:	National Fire Protection Association
NIOSH:	National Institute of Occupational Safety and Health
OSHA:	Occupational Safety and Health Administration
OSHA PEL:	OSHA Permissible Exposure Limits
PBT:	Persistent, Bioaccumulative and Toxic
RCRA:	Resource Conservation and Recovery Act
RTECS:	Registry of Toxic Effects of Chemical Substances
SARA:	Superfund Amendments and Reauthorization Act
TSCA:	Toxic Substances Control Act
TWA:	Time Weighted Average
vPvB:	Very Persistent and Very Bioaccumulative

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