

Shipper:

NOVA Chemicals Inc.
1550 Coraopolis Heights Road
Moon Township, PA 15108

In case of Emergency

1-800-561-6682, 1-403-314-8767 (NOVA Chemicals)(24 hours)
1-800-424-9300 (CHEMTREC-USA)
1-613-996-6666 (Canutec-Canada)(24 hours)

Material Name: ARCEL® Moldable Foam Resin**MSDS ID: NOVA-0114****DOT Shipping Description:** Polymeric beads, expandable 9 UN2211 III**TDG Shipping Description:** Polymeric beads, expandable 9 UN2211 III**Synonyms:** Mixture of Polyethylene and Polystyrene**Fire and Explosion**

Fire: Fire and explosion risk. Vigorously supports combustion. Released vapors are flammable when exposed to lit cigarettes, sparks, static electricity discharges, or open flame. When heated to decomposition, product emits acrid smoke and irritating fumes. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back. Move containers from the fire area if this can be done without risk. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back.

Health: Styrene, oxides of carbon, and other toxic gases at elevated temperatures.

Protective Clothing: Wear full set of protective equipment including positive pressure breathing apparatus, chemical goggles and gloves.

Accidental Release

All equipment used when handling the product must be grounded.

Small Spills: Spilled product may create a slipping hazard. Consider isolating the spill or leak area immediately until ambient air sampling results indicate that the pentane vapor concentration is below the flammable range. Use appropriate non-sparking tools to put the spilled solid in an appropriate waste disposal container. Eliminate all sources of ignition.

Large Spills: Flammable vapors are released from spills. Use water spray curtain to divert vapor drift. Consider evacuating the spill or leak area immediately until ambient air sampling results indicate that the pentane vapor concentration is below the flammable range. Prevent entry into sewers, basements, or confined areas; dike if needed. Eliminate all sources of ignition.

Fire Fighting

Extinguishing Media: Dry chemical, foam, carbon dioxide, water fog or water spray. Use water to cool fire-exposed containers and to protect personnel.

Fire Fighting Methods: Move containers from fire area if you can do it without risk. Fight fire from maximum distance or use unmanned holders or monitor nozzles. Cool containers with flooding quantities of water until well after the fire is out ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Prevent runoff from entering waterways, drains and sewers.

First Aid

Remove victim to fresh air. Call 911 or emergency medical service. Assist breathing if necessary. Keep victim warm and at rest. Obtain medical attention immediately. Check for and remove any contact lenses. Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at once. Not normally expected to present a skin hazard. This product may cause irritation to the skin from repetitive handling. Remove contaminated clothing. Wash the affected skin gently and thoroughly with running water and non-abrasive soap. If ingested, DO NOT induce vomiting.

For additional information please refer to the Material Safety Data Sheet.

MSDS Contact Phone: 905-542-6980, during weekly EST business hours.

Emergency Overview

DANGER FLAMMABLE, KEEP REFRIGERATED. Product is a solid, white, blue, or gray-green bead with slightly fruity, aromatic odor. This product can release a gas that is highly flammable in the presence of open flames, lit cigarettes, sparks, static electricity discharges, or heat. Keep at a temperature not exceeding 40°F (4°C). Not resistant to oxidizing agents, partially dissolves in organic solvents. The blowing agent may be irritating to the eyes, respiratory system and skin. When heated to decomposition, product emits acrid smoke and irritating fumes. Slipping hazard.

NFPA Ratings: Health: 1 Fire: 3 Reactivity: 0

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

General Procedures

Wear appropriate protective equipment and clothing during clean-up. (See Section 8 of MSDS)

Contact local police/emergency services and appropriate emergency telephone numbers provided in the beginning of this document.

Ensure statutory and regulatory reporting requirements in the applicable jurisdiction are met.

Persons not wearing appropriate protective equipment should be excluded from area of spill until clean-up has been completed.

Handling Procedures

Keep this product from heat, sparks, lit cigarettes, static electricity discharges, or open flame. Ground all equipment containing material. Do not breathe dust from this material. Keep away from incompatibles such as oxidizing agents, and organic solvents.

After opening the container in a well ventilated area, allow 15 minutes for the accumulated pentane to dissipate.

Partially filled containers represent a potentially serious hazard because the insides of the container permit a space for the pentane to accumulate. When partially filled containers have to be used, direct a stream of air into the container for 15 minutes after opening to ensure no accumulation of isopentane in the container.

Shipping containers, trucks, and trailers should be ventilated for at least 15 minutes prior to unloading.

Maintain sufficient air circulation and ventilation to prevent flammable concentrations from forming, especially in low-lying areas.

Personal Protective Equipment:

Eyes/Face: Wear chemical goggles.

Skin/Hands/Feet: Use impervious gloves. Use of non-static accumulating and fire-resistant protective coveralls and long sleeves is recommended. Footwear with conductive soles is also recommended.

Respiratory: If ventilation is not sufficient to effectively prevent buildup of vapor/mist/fume/dust, appropriate NIOSH respiratory protection must be provided.

First Aid: Notes to Physician

Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. After adequate first aid, no further treatment is required unless symptoms reappear.

Flammability Properties:

Flammability Class:	Extremely Flammable (based on blowing agent)	Flash Point:	-57°C (-70°F) (based on blowing agent)
Upper flammability limit:	7.6% (based on blowing agent)	Flash Point Method:	Closed Cup
Lower flammability limit:	1.4% (based on blowing agent)	Auto Ignition:	420°C (788°F)
Vapor Pressure:	Not available	Vapor Density:	2.5

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