1. PRODUCT AND COMPANY INFORMATION

Product Identity: Bora-Foam ®
Recommended use of the chemical and restrictions on use:
Foamed Polystyrene with or without Polyester or Polypropylene film.

Distributed By: Nisus Corporation
100 Nisus Drive
Rockford, TN 37853

Telephone: Phone: (800) 264-0870
Fax: (865) 577-5825

Emergency Phone: 800-535-5053 (INFOTRAC)

SDS Date of Preparation: 01/12/16

2. HAZARDS IDENTIFICATION

Hazard Classification: None.
Label Elements: None
Signal Word: None
Hazard Statement(s): None.

Other Hazards:
Low toxicity under normal conditions of handling and use.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polystyrene</td>
<td>9003-53-6</td>
<td>95-100%</td>
</tr>
<tr>
<td>Pentane*</td>
<td>109-66-0</td>
<td>&lt;2.0%</td>
</tr>
<tr>
<td>(n-pentane, isopentane, cyclopentane)</td>
<td>78-78-4/287-92-3</td>
<td></td>
</tr>
</tbody>
</table>

Ingredients not precisely identified are proprietary or nonhazardous.
*Flammable blowing agent that off-gases from product. Most of the pentane off-gases prior to shipment.

4. FIRST AID MEASURES

First Aid:
Inhalation: Remove patient from exposure. Obtain medical attention if ill effects occur.
Skin Contact: Wash skin with soap and water.
Eye Contact: Remove particles by irrigating with eye wash solution or clean water, holding the eyelids apart. Obtain medical attention.
Ingestion: Ingestion of small quantities of this material under normal circumstances would not cause harmful effects.
Further Medical Treatment: Symptomatic treatment and supportive therapy as indicated.

5. FIRE FIGHTING MEASURES

Flash point: Not applicable
Auto ignition temperature: 850 deg F
Flash point: 610 deg F (ASTM D 1929)

Extinguishing media: Water fog, foam, carbon dioxide, dry chemical.

Special firefighting protective equipment: Self-contained breathing apparatus with full face piece and protective clothing.

Unusual fire and explosion hazards: Burning product may emit dense black smoke. Dust generated by fabrication, e.g. sanding, may present a fire hazard and should be handled accordingly.

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled:
Sweep up and recover or shovel into a chemical waste container.

7. HANDLING AND STORAGE

STORAGE
Keep containers in a clean, cool and dry area away from heat sources.

Natural ventilation is adequate.
Storage Temperature: Ambient.

HANDLING
Process Hazards
All polymers degrade to some extent at their processing temperature, an effect which increases with increasing temperature. It is therefore impossible to be precise about which substances may be evolved. However, it is only the minor components which vary substantially. The major components are given in the "Stability And Reactivity" section.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls
Ventilation:
Use ventilation adequate to maintain safe levels if overheating or dust occurs during processing.
Respiratory protection: Use MSHA-NIOSH approved respirator for organic vapors, dusts and mists.
Protective clothing: Impervious gloves and apron.
Eye protection: Safety glasses with side shields.
Other protective equipment: Eyewash station in work area
Special precautions or other comments: Follow procedures specified in the National Fire Protection Association Codes and Standards for handling combustible dusts. Maintain good housekeeping to avoid dust buildup.

Exposure Guidelines
Exposure Limits:
PEL(OSHA): Particulates (Not Otherwise Classified) 15 mg/m3, 8 Hr.
TWA, total dust 5 mg/m3, 8 Hr. TWA, respirable dust
TLV ACGIH: None Established

Other Applicable Exposure Limits
STYRENE
PEL (OSHA): 100 ppm, 8 Hr. TWA 200 ppm, Ceiling 600 ppm - 5 Min. Max
TLV ACGIH: 50 ppm, 213 mg/m3, 8 Hr. TWA, Skin STEL 100 ppm, 426 mg/m3
PENTANE
PEL (OSHA): 1,000 ppm
TLV (ACGIH): 600 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and color: White, rigid cellular foam blocks, boards and shapes.
Melting point: Softens at 175 to 220 deg. F.
Solubility in water: Insoluble
Odor: Very slight hydrocarbon.
Density: 0.6 to 3.0 pounds per cubic foot

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.
Decomposition occurs at temperatures above 500 deg F (260 deg C).
Incompatibility: Oxidizing agents, organic solvents.
Hazardous decomposition products: Combustion products: Carbon dioxide, carbon monoxide, styrene and other organic vapors.
Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

General: No toxicity information is available on this specific preparation; this health hazard assessment is based on information that is available on the properties of its components.
Ingestion: The acute oral LD50 in rat is probably above 15,000 mg/kg. Relative to other materials, this material is classified as *relatively
harless" by ingestion.

**Eye contact:** Irritation may develop following contact with human eyes. Dusts may cause mechanical irritation.

**Skin contact:** No irritation is likely to develop following contact with human skin.

**Skin absorption:** This product will probably not be absorbed through human skin.

**Inhalation:** No toxic effects are known to be associated with inhalation of dust from this material. Mechanical irritation may result from inhalation of dust from this material.

**Other effects of overexposure:** No other adverse clinical effects have been associated with exposures to this material.

**Carcinogenicity Information:**
The following degradation component is listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

<table>
<thead>
<tr>
<th>Material</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
<th>ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td>STYRENE</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12. **ECOLOGICAL INFORMATION**

Solid with low volatility. The product is essentially insoluble in water. The product has low potential for bioaccumulation. The product is predicted to have low mobility in soil.

**Persistence and Degradation:** The product is non-biodegradable in soil. There is no evidence of degradation in soil and water.

**Toxicity:** The product is predicted to have low toxicity to aquatic organisms.

**Effect on Effluent Treatment:** The product is anticipated to be poorly removed in effluent treatment.

13. **DISPOSAL CONSIDERATION**

**Waste Disposal**

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Incinerate material in accordance with Federal, State/Provincial and Local requirements. Do not incinerate in closed containers.

Discarded product is not a RCRA hazardous waste.

14. **TRANSPORTATION INFORMATION**

**DOT** Not Regulated

15. **REGULATORY INFORMATION**

Not classified as hazardous to users or for transport. U.S. Federal Regulations

**TSCA Inventory Status:** Article but chemicals are all Reported/Included.

**SECTION 313 SUPPLIER NOTIFICATION**

This product contains no known toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

**Canadian Regulations:**
DSL regulatory status: Included.

**European Regulations:**
EINECS: included.

**STATE RIGHT-TO-KNOW LAWS**

No substances on the state hazardous substances list, for the states indicated below, are used in the manufacture of products on this Safety Data Sheet, with the exceptions indicated. While we do not specifically analyze these products, or the raw materials used in their manufacture, for substances on various state hazardous substances lists, to the best of our knowledge the products on this Safety Data Sheet contain no such substances except for those specifically listed below:

**California Prop. 65:** This product contains a chemical(s) known to the state of California to cause cancer and birth defects or other reproductive harm.

**HMIS Rating:**

<table>
<thead>
<tr>
<th></th>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

**Personal Protection rating to be supplied by user depending on use conditions.**

**SDS Revision History:** 09/10/13: New SDS 01/12/16: Revised

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