SLEEP INNOVATIONS/ADVANCED URETHANE TECHNOLOGIES
Tomorrow's innovations....Today

FOR ANY EMERGENCY, CALL A LOCAL - NATIONAL POISON CONTROL UNIT OR THE SLEEP INNOVATIONS/ADVANCED URETHANE TECHNOLOGIES EMERGENCY PHONE
(24 hours: In the USA): (732)-403-1002

PRODUCT NAME: POLYURETHANE FOAM

I. PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE: November 25, 2009
SUPERCEDES: None
MSDS NO: 0001
SYNONYMS: Flexible Polyurethane Foam
CHEMICAL FAMILY: All polyether and polyester foam products
DESCRIPTION / USE: Bedding, Cushions, Automotive
FORMULA: Not Available

Sleep Innovations, Inc./Advanced Urethane Technologies, 187 Route 36, Suite 101, West Long Branch, NJ 07764

II. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS #</th>
<th>% Range</th>
<th>OSHA PEL / ACGIH TLV</th>
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<tbody>
<tr>
<td>Polyurethane Foam</td>
<td>9009-54-5</td>
<td>100%</td>
<td>None Established</td>
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Polyurethane foam is a fully cross-linked reaction product of polyether polyhydroxy polyol(s), diisocyanate(s) and/or polymeric isocyanates such as toluene diisocyanate, methylene diphenyl diisocyanates, catalysts, surfactants, colorants, water, and in some instances stabilizers, polymer modifiers and other additives. Polyurethane foam product is cellular plastic polymeric material consisting of repeating units of carbon, hydrogen, oxygen and nitrogen that is fully reacted and cured.

III. HAZARDS IDENTIFICATION

Product Classification: None
Routes of Entry: Inhalation, Eyes

Chemical Interactions: No known interactions

Medical Conditions Aggravated: No data available

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**Human Threshold Response Data**

Odor Threshold: Not established

Irritation Threshold: Not established

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**Immediate (Acute) Health Effects**

Inhalation Toxicity: Not expected to be toxic by inhalation.

Inhalation Irritation: Coarse dust can cause mechanical irritation of lungs and eyes. Airborne dust is evaluated as a nuisance dust. If ignited, foam may decompose and emit toxic gases and respiratory irritants a respiratory irritant.

Skin Contact: No data available

Eye Contact: Coarse dust can cause mechanical irritation to the eyes. If exposed, avoid rubbing eyes.

Ingestion Irritation: No data available

Ingestion Toxicity: No data available

Acute Target Organ Toxicity: None known

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**Prolonged (Chronic) Health Effects**

Carcinogenicity: This product is not known or reported to be carcinogenic by any reference source including IARC or NTP.

Reproductive and Developmental Toxicity: Not known or reported to cause reproductive or developmental toxicity.

Inhalation: Coarse dust can cause mechanical irritation of lungs and eyes. Airborne dust is evaluated as a nuisance dust. If ignited, foam may decompose and emit toxic gases and respiratory irritants a respiratory irritant.

Skin Contact: There are no known or reported effects from chronic exposure except for effects (if any) similar to those
experienced from acute exposure.

Ingestion: There are no known or reported effects from chronic ingestion except for effects similar to those experienced from single exposure.

Chronic Target Organ Toxicity: None known

Supplemental Health Hazard Information: No additional health information available

**IV. FIRST AID**

Inhalation: IF INHALED: Remove individual to fresh air; Call a physician if respiratory discomfort persists.

Skin Contact: IF ON SKIN: None necessary.

Eyes: IF IN EYES: Flush eyes with plenty of water for at least 15 minutes. Call a physician if irritation develops.

Ingestion: IF SWALLOWED: Consult a physician.

**V. FIRE FIGHTING MEASURES**

Fire/Explosion Hazards: Material may be ignited only if preheated to high temperatures (greater than 500 deg F), for example in a fire.

Extinguishing Media: Use alcohol foam, carbon dioxide, dry chemical or water spray when fighting fires. Water or foam may cause frothing if liquid solvent or oil is burning but it still may be a useful extinguishing agent if carefully applied to the fire.

Fire Fighting Instructions: In case of fire, use normal fire fighting equipment including an approved self-contained breathing apparatus (SCBA).

Hazardous Combustion Products: Carbon monoxide, Carbon dioxide

Classification: Combustible Solid

NFPA Sprinkler Classification: Extra Hazard

Lower Flammable/Explosive Limit, % in air: No data

Upper Flammable/Explosive Limit, % in air: No data
Special Considerations: Flexible polyurethane foam, like all organic materials, will burn if exposed to a sufficient heat source. The ignition temperature of polyurethane foam will vary depending on the product chemical formulation, but all polyurethane foams are combustible and can create a fire risk. Flexible polyurethane foams, once ignited, may degrade and melt to a combustible liquid, which may add to the fire involvement.

Fire retardant foams should not be considered safe under all conditions.

Thermal decomposition products from foams can be toxic and present a risk to humans who are exposed.

Fires of polyurethane foams generate large quantities of dense smoke quickly.

VI. ACCIDENTAL RELEASE MEASURES

No special response required.

VII. HANDLING AND STORAGE

Safe Handling and Storage: Warehousing of bun stock, sheets, rolls and fabricated items should be stored under a fusible sprinkler system with a minimum of six feet clearance between stacks of foam and the sprinkler heads. Do not store foam near any ignition sources such as exposed electrical or gas heating elements, open flames and exposed lights. Do not smoke in foam storage areas. Do not allow foam scrap and cutting to accumulate and maintain clear aisles with adequate access to all storage areas and exits.

Shelf Life Limitations: No data available

Incompatible Materials for Storage: Refer to Section X, "Incompatible Materials."

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: General exhaust is normally required for those processing areas that may generate foam dust and decomposition products. Examples of these processes include sawing, grinding, buffing and flame lamination, hot wire cutting, heat sealing and hot stamping. No exposure limits exist for the constituents of this product.

Protective Equipment for Routine Use of Product

Respiratory Protection Respiratory protection not normally needed since volatility and toxicity are low. If vapors, mists or aerosols are generated, wear an approved respirator.

Respirator Type(s): An approved air purifying respirator with dust/mist filter. Air
purifying respirators should not be used in oxygen deficient or IDLH atmospheres or if exposure concentrations exceed ten (10) times the published limit.

Skin: Follow good industrial hygiene practices.

Eyes: Use safety glasses with side shields.

Protective Clothing Type: Normal clothing

Exposure Limit Data

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NIOSH Immediately Dangerous to Life or Health: The IDLH has not been established for this product.

IX. PHYSICAL DATA

Physical State: Uniform cellular solid structure
Color: Varies
Odor: Sweet
Molecular Weight: Not Applicable
pH (@ 25 Deg. C): Not Applicable
Octanol/Water Coeff: Not Applicable
Solubility in Water: Not Applicable
Bulk Density: 0.5 – 40 lb/cubic foot
Specific Gravity: Not Applicable
Vapor Density: Not Applicable
Vapor Pressure: Not Applicable
Evaporation Rate: Not Applicable
Volatiles, % by vol.: Not Applicable
Boiling Point: Not Applicable
Melting Point: 175 – 190 C
Freezing Point: Not Applicable
Flammable Properties
Flash Point: > 260 C
Autoignition Temperature: No Data

X. STABILITY AND REACTIVITY

Stability and Reactivity Summary:
Stable under normal conditions.

Reactive Properties:
Not sensitive to static discharge.

Hazardous Polymerization:
Will not occur

Conditions to Avoid:
Moisture (will lead to product performance degradation)
Hygroscopic High temperatures

Chemical Incompatibility:
Strong oxidizing agents, strong acids and bases

Hazardous Decomposition Products:
Unidentified organic compounds, carbon monoxide

Decomposition Temperature:
No data

XI. TOXICOLOGICAL INFORMATION

Component Animal Toxicology
Oral LD50 value: No data
Dermal LD50 value: No data
Inhalation LC50 value: No data

Product Animal Toxicity
Oral LD50 value: No data
Dermal LD50 value: No data
Inhalation LC50 value: No data
Skin Irritation: This material is expected to be non-irritating.
Eye Irritation: This material is expected to be non-irritating.
Reproductive and Developmental Toxicity: Not known or reported to cause reproductive or developmental toxicity.
Mutagenicity: Not known or reported to be mutagenic.
Carcinogenicity: This chemical is not known or reported to be carcinogenic by any reference source including IARC or NTP.

XII. ECOLOGICAL INFORMATION

Ecological Toxicity Values: No data.

XIII. DISPOSAL CONSIDERATIONS

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THIS MATERIAL. THE USER OF THIS MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT NATIONAL LAWS, DIRECTIVES AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.

Waste Disposal Summary: Dispose according local, state, and federal laws, directives and regulations.
Disposal Methods: As a nonhazardous waste, it should be disposed of in accordance with National and EU laws, directives and regulations.

XIV. TRANSPORTATION INFORMATION

Air (IATA/ICAO): Not Regulated
Water (IMO): Not Regulated
Flash Point: (C) > 260
Land (ADR/RID): Not Regulated

XV. REGULATORY INFORMATION

EU labeling and packing: Not applicable
Symbols: None
XVI. ADDITIONAL INFORMATION

MSDS REVISION STATUS: Revised to meet the ANSI standard of 16 sections.
Additional Information: None

THE INFORMATION IN THIS SDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. SLEEP INNOVATIONS BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS SDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT SLEEP INNOVATIONS AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT.