



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

CHEMICAL NAME	CAS #	% Range	OSHA PEL / ACGIH TLV
Polyurethane Foam	9009-54-5	100%	None Established

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: No data available
Aggravated:

Human Threshold Response Data

Odor Threshold: Not established
Irritation Threshold: Not established

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

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

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>% Range</u>	<u>OSHA PEL / ACGIH TLV</u>
Polyurethane Foam	9009-54-5	100%	None Established

∴

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.