

SAFETY DATA SHEET

Polyurethane Foam

Rev.01

SDS DATE: 08/03/2017

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: Polyurethane Foam
PRODUCT CATEGORY: All polyether and polyester foam products
EMERGENCY PHONE: CHEMTREC 1-800-424-9300
OTHER CALLS: 610-245-2800
CHEMICAL FAMILY: Polyurethane Foam

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification:
Physical Hazards: None
Health Hazards: None
Environmental Hazards: None

GHS Labeling:

Symbols: None required
Signal Word: None required

Hazard Statements None

Precautionary Statements

Prevention: Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Use only outdoors or in well-ventilated area.
Response: : If exposed: call a POISON CENTER and or doctor/physician. In case of fire: Use water spray, dry powder or carbon dioxide for extinction.
Storage: Keep container tightly closed. Store in a dry place. Store in a well-ventilated place.
Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at the time of disposal.

NFPA HAZARD CLASSIFICATION

HEALTH: 0 FLAMMABILITY: 1 REACTIVITY: 0 OTHER: N/A

HMIS HAZARD CLASSIFICATION

HEALTH: 0 FLAMMABILITY: 1 REACTIVITY: 0 PROTECTION: C

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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance:

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>
Polyurethane Foam	Proprietary	100

Polyurethane foam is a fully cross-linked reaction product of polyhydroxy polyol, isocyanates, catalysts, surfactants, colorants and water. Additional additives may be present, depending on the product, such as fire retardants, germicides and antistatic agents.

This product is classified as an article and non-hazardous according to the criteria established in the OSHA Hazard Communication Standard.

SECTION 4: FIRST AID MEASURES

EYES: Flush eyes thoroughly with water for 15 minutes.

SKIN: None required under normal use conditions.

INGESTION: None required under normal use conditions.

INHALATION: Move to fresh air. Get medical attention if symptoms persist.

EXPECTED ACUTE AND DELAYED SYMPTOMS: None expected under normal use conditions.

PERSONAL PROTECTION FOR FIRST-AID RESPONDERS: Not required.

NOTES TO PHYSICIANS: Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA:

SUITABLE: Dry chemical, water spray, carbon dioxide.

UNSUITABLE: None known.

SPECIAL FIRE FIGHTING PROCEDURES: None known.

UNUSUAL FIRE AND EXPLOSION HAZARDS: If ignited, bonded foam can produce rapid flame spread, intense heat, and dense black smoke and toxic gases. Material can melt into a burning liquid that can drip and flow.

Accumulated polyurethane dust can be readily ignited and presents a fire risk. High concentrations of dust in the air can explode if exposed to a flame, spark or other ignition sources.

PROTECTION FOR FIRE-FIGHTERS: Wear self-contained breathing apparatus in enclosed areas.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Keep unauthorized personnel away. Ventilate closed spaces before entering them. See Section 8 for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

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ENVIRONMENTAL PRECAUTIONS: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

METHODS FOR CLEANING UP: No special response required. Sweep or vacuum up.

SECTION 7: HANDLING AND STORAGE

HANDLING: Do not smoke in foam storage areas. Do not allow foam scrap and cuttings to accumulate. Maintain clear aisles with adequate access to all storage areas and exits.

STORAGE: Warehousing of bun stock, sheets, rolls and fabricated items should be stored under a fusible sprinkler system with a minimum of six (6) 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.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES:

	<u>ppm</u>	<u>mg/m3</u>
OSHA PEL-TWA:	None established for any of the components	
OSHA PEL STEL :	None established for any of the components	
OSHA PEL CEILING:	None established for any of the components	
ACGIH TLV-TWA:	None established for any of the components	
ACGIH TLV STEL:	None established for any of the components	
ACGIH TLV CEILING:	None established for any of the components	

ENGINEERING CONTROLS: General mechanical ventilation is adequate under normal use conditions.

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION: If needed, use appropriate NIOSH-approved respirator based on identity and concentration of air contaminant.

EYE PROTECTION: Recommended if dust is generated.

SKIN AND BODY PROTECTION: Wear appropriate protective clothing. Use adequate hand protection during hot processing operations. Use guards and/or protective gloves for cutting operations.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Local exhaust ventilation is recommended for those processing procedures that may generate foam dust and decomposition products.

HYGIENIC MEASURES: Wash contaminated clothing before reuse. Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke when using the product. Wash hands after handling. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Contaminated work clothing should not be allowed out of the workplace.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

Physical State: Uniform cellular solid structure

Color: Varying colors

ODOR: slight characteristic odor

pH AS SUPPLIED: Not applicable

BOILING POINT: Not applicable

F: (C)

MELTING POINT: Not applicable

F: (C)

FREEZING POINT: Not applicable

F: (C)

FLASH POINT: Not applicable

METHOD USED: Not applicable

IGNITION POINT: 600 – 650 F

THERMAL DEGRADATION POINT: 365 – 400 F

FLAMMABLE LIMITS IN AIR, UPPER: Not applicable

(% BY VOLUME)

LOWER: Not applicable

VAPOR PRESSURE (mmHg): Not applicable

@ F: (C)

VAPOR DENSITY (AIR = 1): Not applicable

@ F: (C)

SPECIFIC GRAVITY (H₂O = 1): Not applicable

@ F: (C)

BULK DENSITY: 0.5 – 40 lbs/cu. ft.

EVAPORATION RATE: Not applicable

BASIS (BUTYL ACETATE = 1)

SOLUBILITY IN WATER: Not applicable

VOLATILE ORGANIC COMPOUNDS (VOC): Not applicable

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

CONDITIONS TO AVOID (STABILITY): High temperature, open flames; strong oxidizers can cause discoloration to foam.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizing acids and bases will degrade product

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HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen, free isocyanate, acetaldehyde, acrylonitrile, polymer fragments, and hydrogen cyanide. Fire retardant foams may generate emissions of hydrogen chloride, hydrogen bromide or phosphoric acid depending on the fire retardant additive.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: No data available

ROUTES OF EXPOSURE: Inhalation, eye contact

HEALTH HAZARDS: Inhalation: Foam dust – Coarse dust can cause mechanical irritation of the upper respiratory tract when concentrations are above the applicable occupational exposure limit. Airborne dust is evaluated as a nuisance dust. Vapors – Irritating vapors (decomposition products) may be produced if product is exposed to temperatures above 350 F. If ignited, foam may decompose and emit toxic gases and respiratory irritants. **Eye:** Foam dust – Coarse dust can cause mechanical irritation to the eyes. If exposed, avoid rubbing eyes. Vapors – Irritating vapors (decomposition products) may be produced if product is exposed to temperatures above 350 F.

SKIN CORROSION / IRRITATION: No data available

SERIOUS EYE DAMAGE / EYE IRRITATION: No data available

SENSITIZATION:

Respiratory: Not a sensitizer

Skin: Not a sensitizer

GERM CELL MUTAGENICITY: No mutagenic components identified

CARCINOGENICITY

OSHA: No

ACGIH: No

NTP: No

IARC: No

OTHER: None known

TOXIC TO REPRODUCTION: No components toxic to reproduction

SPECIFIC TARGET ORGAN TOXICITY (STOT):

Single Exposure: None

Repeated Exposure: None

ASPIRATION TOXICITY: Not classified

CHRONIC EFFECTS: None known

OTHER INFORMATION: None

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION

ECOTOXICITY: No data available

PERSISTENCE AND DEGRADABILITY: No data available

BIOACCUMULATION: No data available

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MOBILITY: No data available

OTHER HAZARDOUS EFFECTS: None

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Discharge, treatment, or disposal may be subject to national, state, or local laws.

CONTAMINATED PACKAGING: Since emptied containers retain product residue, follow label warnings even after container is emptied.

RCRA HAZARD CLASS: N/A

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Not regulated

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENT:

WATER TRANSPORTATION (IMDG)

PROPER SHIPPING NAME: Not regulated

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENTS:

AIR TRANSPORTATION (IATA)

PROPER SHIPPING NAME: Not regulated

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENTS:

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All of the components are listed or exempt from listing on the TSCA Inventory.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): None

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): None

311/312 HAZARD CATEGORIES: N/A

313 REPORTABLE INGREDIENTS: None

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SECTION 16: OTHER INFORMATION

1.DO NOT EXPOSE POLYURETHANE FOAM TO OPEN FLAMES OR OTHER DIRECT OR INDIRECT HIGH TEMPERATURE IGNITION SOURCES.

Polyurethane foam and hydrocarbon gel will burn if exposed to a sufficient heat source. The ignition temperature of the material will vary depending on the product chemical formulation, but all polyurethane foams and hydrocarbon gels are combustible and represent a fire risk. Once ignited, these materials may degrade and melt to form a combustible liquid, which may add to the fire involvement.

2.TERMS SUCH AS"FIRE RETARDANT", "SLOW BURNING", "FLAME RESISTANT" AND "UNDERWRITER'S LABORATORY RATED" DESCRIBE CERTAIN FLAMMABILITY PROPERTIES AND MUST NOT BE REGARDED AS DENOTING FIRE SAFETY UNDER ALL CONDITIONS.

Additionally, small-scale fire tests are not intended to reflect hazards presented by these or any other material under real fire conditions.

3.SMOKE FROM BURNING FOAM IS IRRITATING TO THE EYES AND RESPIRATORY TRACT. SMOKE INHALED FROM BURNING OR SMOLDERING PRODUCT MAY BE TOXIC.

Thermal decomposition products from polyurethane foams and hydrocarbon gels can be toxic and present a risk to humans who are exposed. This is true for all organic materials. Fire risks in varying degrees are common to all fires: heat, carbon monoxide, other toxicants, oxygen depletion and smoke. In fires with these materials, great heat, and large quantities of dense smoke and potentially toxic gases can be generated quickly.

4.STANDARD FIRE-FIGHTING EQUIPMENT GENERALLY EMPLOYED BY AUTHORIZED FIREMEN IS MANDATORY.

Personnel involved in fire fighting should wear self-contained breathing apparatus and be aware of the exposure to toxic and potentially lethal smoke and gases.

OTHER INFORMATION: An SDS such as this cannot be expected to cover all possible individual situations. The user has the responsibility to provide a safe workplace. All aspects of an individual operation should be examined to determine if, or where precautions -- in addition to those described herein -- are required. Any health hazard information contained herein should be passed on to your employees.

PREPARATION INFORMATION: Prepared by Environmental, Health and Safety Department

DISCLAIMER: The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damages incurred by the use of this material. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Final determination of suitability of this material is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the material to which the information refers. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.