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SOUNDPROOFING

SonoFlat Panels

Material Safety Data Sheet

MATERIAL SAFETY DATA SHEET

Auralex Acoustics Inc.
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SECTION 1 -- IDENTITY

NAME: Flexible urethane foam
CHEMICAL TYPE: Polyether-based urethane polymer
TRADE NAMES & SYNONYMS: Flexible polyurethane foam, pure foam, flame retardant foam, high comfort foam, HR foam, antistatic foam & others.

SECTION 2 -- HAZARDOUS INGREDIENTS

The material is not made from chemical components that are known to represent possible carcinogenic, mutagenic or other chronic hazards. However, TDI mixed with corn oil administered to lab animals has been shown to be carcinogenic.

SECTION 3 -- PHYSICAL & CHEMICAL CHARACTERISTICS

Since urethane foam is a solid, physical characteristics such as boiling point, vapor pressure, vapor density, percent volatiles, evaporation rate, etc. are not applicable.

DENSITY: 0.9 - 4.0 lbs. per cu. ft.
IGNITION POINT: 600 - 650 degrees F
AUTOIGNITION POINT: 750 - 800 degrees F
APPEARANCE: Can come in any color. Looks like a cellular material similar to foam rubber.

SECTION 4 -- FIRE & EXPLOSION HAZARD DATA

OSHA CLASSIFICATION: Combustible solid
NFPA SPRINKLER CLASSIFICATION: Upholstery with plastic foams. Extra hazard.
EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry powder
FIRE FIGHTING PROTECTION: Use NIOSH-approved self-contained breathing apparatus & protective clothing including boots.
UNUSUAL FIRE HAZARDS: Once ignited, can produce rapid flame spread, intense heat, dense smoke and toxic gases. Can turn into burning liquid which can drip and flow.



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SECTION 5 -- PHYSICAL HAZARDS

REACTIVITY: Stable. Hazardous polymerization will not occur.
CONDITIONS TO AVOID: Strong acids and alkalis will deteriorate foam properties.
INCOMPATIBILITY: Unknown
HAZARDOUS DECOMPOSITION PRODUCTS: Combustion, hot wire cutting, heat sealing, hot stamping & flame laminating operations of foam may produce carbon monoxide, oxides of nitrogen and traces of isocyanates & hydrogen cyanide.

SECTION 6 -- HEALTH HAZARDS

THRESHOLD LIMIT VALUE: None established
OSHA PERMISSIBLE EXPOSURE: None established
ACUTE ORAL LD 50: Greater than 5000 mg./kg. (rat)
ACUTE DERMAL LD 50 LIMIT: No available data
PRIMARY SKIN IRRITANT: Not known to be irritant
EYE IRRITATION: Dust can cause irritation
PRIMARY ROUTE OF ENTRY: Foam dust -- inhalation
INHALATION: Animal studies indicate that chronic overexposure to dusts may cause inflammation of the lungs, fibrosis & airway obstruction.

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN

National Toxicology Program: No
I.A.R.C. Monographs: No
OSHA: No

EMERGENCY FIRST AID PROCEDURES

SKIN: Does not apply
INGESTION: Does not apply
EYES: Flush thoroughly with water
INHALATION (OF DUST): Call physician if coughing, discomfort or air passage obstruction occurs.

SECTION 7 -- SPECIAL PROTECTION INFORMATION

VENTILATION: Use adequate mechanical ventilation when hot wire cutting, heat sealing, hot stamping & flame laminating flexible urethane foam. Also use ventilation in operations that will generate large quantities of foam dust such as in continuous sawing, fabrication or buffing operations.
PROTECTIVE EQUIPMENT: Unless exposure to foam dust is anticipated, goggles, gloves & dust masks are not required.



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SECTION 8 -- SPECIAL PRECAUTIONS & SPILL/LEAK PROCEDURES

HANDLING & STORAGE:

- Store buns, sheets and fabricated items indoors under fusible sprinkler protections.
- Allow a minimum of six feet clearance between tops of foam stacks and sprinkler heads.
- Do not smoke or use naked lights, open flames, exposed electrical heating elements or other ignition sources near stored flexible foam.
- Store buns and sheets with adequate aiseways to permit access to all storage areas.
- Do not allow cuttings of foam scrap to accumulate.
- Be aware that terms like "fire retardant" and "flame retardant" sometimes used to describe flammability properties do not mean fire safety under all conditions and that small scale fire tests are "NOT INTENDED TO REFLECT HAZARDS PRESENTED BY THESE OR ANY OTHER MATERIALS UNDER ACTUAL FIRE CONDITIONS."
- When fabricating flexible polyurethane foam, keep a fire extinguisher nearby.

WATER DISPOSAL METHODS:

Sanitary landfills, commercial incineration. CHECK LOCAL REGULATIONS.

NOTICE-----NOTICE-----NOTICE

Auralex Acoustics, Inc., and its contract manufacturers & fabricators believe that the information contained in this Material Safety Data Sheet is accurate. However, the suggestions contained herein are not necessarily all-inclusive or fully adequate in all circumstances. Further, NO WARRANTY, EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR APPLICATION OR OTHERWISE IS MADE BY ANY FIRM CONNECTED WITH THE MANUFACTURE OR FABRICATION OF THE MATERIALS COVERED BY THIS MATERIAL SAFETY DATA SHEET.



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Foamtak Spray Adhesive

Material Safety Data Sheet



**MATERIAL SAFETY
DATA SHEET**

MSDS: Auralox(R) Foamtak(TM) Spray Adhesive

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7. PRECAUTIONARY INFORMATION (continued)

or mist.

RESPIRATORY PROTECTION:

Avoid breathing of vapors, mists or spray. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: half-mask organic vapor respirator.

PREVENTION OF ACCIDENTAL INGESTION:

Do not ingest.

RECOMMENDED STORAGE:

Store at temperatures below 120 degrees F (49 degrees C). Store out of direct sunlight. Keep out of the reach of children.

FIRE AND EXPLOSION AVOIDANCE:

Aerosol container contains flammable gas under pressure. Keep away from heat, sparks, open flame, and other sources of ignition. Extremely flammable liquid and vapor. Do not pierce or burn container, even after use. No smoking while handling this material. Avoid static discharge.

INGREDIENTS	EXPOSURE LIMITS		TYPE	AUTH	SKIN*
	VALUE	UNIT			
DIMETHYL ETHER	1000	ppm	TWA	CMRG	
DIMETHYL ETHER	500	ppm	TWA	AIHA	
PENTANE	600	ppm	TWA	ACGIH	
PENTANE	600	ppm	TWA	OSHA	
PENTANE	OSHA VACATED	PEL			
PENTANE	750	ppm	STEL	OSHA	
PENTANE	OSHA VACATED	PEL			
PENTANE	1000	ppm	TWA	OSHA	
NON-VOLATILE COMPONENTS - N.J.					
TRADE SECRET (T.S.) REGISTRY NO.					
04499600-5490P ++					
ACETONE	NONE	NONE	NONE	NONE	
ACETONE	500	ppm	TWA	ACGIH	
ACETONE	750	ppm	STEL	ACGIH	
ACETONE	750	ppm	TWA	OSHA	
ACETONE	OSHA VACATED	PEL			
ACETONE	1000	ppm	STEL	OSHA	
ACETONE	OSHA VACATED	PEL			
ACETONE	1000	ppm	TWA	OSHA	
NAPHTHOL SPIRITS	100	ppm	TWA	3M	
NAPHTHOL SPIRITS	300	ppm	TWA	CMRG	

* SKIN NOTATION: Listed substances indicated with "Y" under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

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www.TMSoundproofing.com



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Foamtak Spray Adhesive

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7. PRECAUTIONARY INFORMATION (CONTINUED)

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- AIHA: American Industrial Hygiene Assoc. Workplace Environmental Exposure Level Guideline
- OSHA: Occupational Safety and Health Administration
- OSHA: Occupational Safety and Health Administration Vacated PEL. Vacated Permissible Exposure Limits (PEL) are enforced as the OSHA PEL in some states. Check with your local regulatory authority.
- CMRG: Chemical Manufacture Recommended Guidelines
- NONE: None Established

8. HEALTH HAZARD DATA

EYE CONTACT:

Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

SKIN CONTACT:

Mild Skin Irritation (after prolonged or repeated contact): signs/symptoms can include redness, swelling, and itching.

INHALATION:

Intentional concentration and inhalation may be harmful or fatal.

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

IF SWALLOWED:

Ingestion is not a likely route of exposure to this product.

WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED ON THE MSDS BY THE U.S. OSHA HAZARD COMMUNICATION STANDARD, THEY ARE NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.

Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces.

SECTION CHANGE DATES

HEADING

SECTION CHANGED SINCE APRIL 3, 2001 ISSUE

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