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MATERIAL SAFETY DATA SHEET

IDENTIFICATION

Product Name	Flexible Polyurethane Foam
UN Number	None
Other Names	Polyether-urethane foam
Dangerous Goods Class/ Subsidiary Risk	None
Hazchem Code	None
Poisons Schedule	None
Manufactures Codes	A15-45, A15-60, A15-100, A18-35, A19-130, A20-100, A23-130, A24-160, A25-50, A28-80, A27-200, A29-400, A30-100, A30-130, A31-320, H35- 110, H35-130, H35-200, H35-230, H35-600, EN36-100, EN36-130, LR38-40, EN38-200, QDF
Main Uses	Bedding, Upholstery, Packaging

PHYSICAL DESCRIPTION/PROPERTIES

Appearance	Flexible, cellular structure, white to off white natural colour or specified colour (shade will change on exposure to air)
Boiling Point	Not Applicable
Melting/Thermal Decomposition Range	above 200°C
Vapour Pressure	None
Percent Volatiles	None
Specific Gravity	Apparent density of 15 to 100kg/m ³
Flash Point	above 250°C
Flammability Limits	Material can be ignited by an open flame or by a source for smouldering ignition
Auto-Ignition Temperature	above 260°C short term Avoid long term exposure over 135°C

INGREDIENTS

Chemical Entity	Polyurethane foam
CAS No.	9009-54-5
Proportion	100%

Reaction product of toluene-diisocyanate, water and polyakoxy polyether polyol.

Some polyols may contain styrene and acrylonitrile polymer.

May contain small amounts of insoluble, inorganic fillers or plasticiser extenders.

May contain small amounts of pigments.

HEALTH HAZARD INFORMATION

Health Effects	None expected from normal handling. The polymer is inert with low oral or dermal toxicity. It is not recommended that the material be taken or used internally. Inhalation of foam dust may be harmful. Temperatures of in excess of 135°C encountered in any processing or other use will produce irritating or toxic fumes.
First Aid	In case of over exposure to fumes, vapours or smoke, remove victim to fresh air. Render breathing assistance if needed and consult a physician. In case of eye irritation from contact with foam dust, fume, vapour and smoke, flush with ample quantities of water or suitable eyewash for 15 minutes. Consult a physician.

PRECAUTIONS FOR USE

Exposure Limits	Not Applicable
Ventilation	None required under normal conditions. Ventilation required where material is processed with flame or hot cutting wires.

PERSONAL PROTECTION

Respiratory Protection	None required unless flames or dust involved
Protective Gloves	None Required
Eye Protection	As appropriate around moving machine parts during fabrication or if dust protection required
Flammability	The material should be kept away from sparks, smokers' materials, open flames and from excessive heat.

Smoking should be forbidden in areas where material is stored and processed.

Foam may burn rapidly with high heat and evolution of black smoke. Flammability ratings of small scale laboratory tests are not to be taken as an indication of the material's behaviour in actual full scale fire.

SAFE HANDLING INFORMATION

Storage & Transport	Maintain adequate sprinkler protection where large volumes of foam are kept, eg. Warehouse, fabrication area and storage rooms. Check for compliance with insurance regulations, local building codes or other legal requirements.
Spills & Disposal	Waste may be baled or shredded for re-use. Dispose of landfill or incinerate as required by local or state regulation.
Fire/Explosion Media	If ignited the material may melt, producing toxic gases, such as carbon monoxide, oxides of nitrogen and hydrogen cyanide and intense heat, dense smoke.
Extinguishing Media	Dry chemical, water, carbon dioxide
Special Fire Fighting Procedure	Wear self-contained breathing apparatus
Other Information	Refer to the Plastics Industry Association publication – "Flexible Polyurethane Foams – Its uses and Misuses"

CONTACT POINT

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