



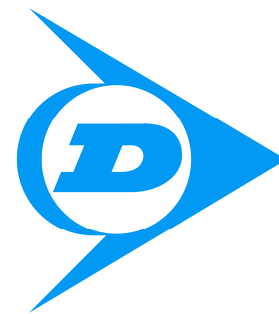
Quality
Endorsed
Company

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DUNLOP FOAMS

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFICATION

Product Name:

Flexible Polyurethane Foam, HR, ENDURO, some of the STAMINA grades, and NLB (Nonlite Block) ranges.

U.N. Number	None
Dangerous Goods Class/ and Subsidiary Risk	None

Other Names:

Flexible Polyurethane Foam, Polyether-urethane foam, flame retarded (combustion modified), high resilience (HR) foam.

Hazchem Code:	None
Poisons Schedule:	None

Manufacturer's Codes:

ST29-60, ST30-110, ST30-130, ST30-150, ST35-200, ST44-270
EN36-80, EN36-100, EN36-130, EN38-200, EN50-250, NL45-130, NL65-200
HR30-110, HR30-130, HR50-150

Main Uses:

Upholstery and bedding components.

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
Per cent volatiles:	None
Specific gravity:	Apparent density of 15 to 100 kg/m ³
Flash point:	Above 250°C
Flammability limits:	Material can be ignited by an open flame or by a source for smouldering ignition.
Autoignition temperature:	Above 260°C short term. Avoid long term exposure over 135°C.

Ingredients:

Chemical entity:	CAS No.:	Proportion:
Polyurethane foam	9009-54-5	High content (>60%)
Melamine	108-78-1	Medium content
Halophosphate	-	Low to medium content

Reaction product of toluene diisocyanate, water and polyalkoxy polyether polyol. Some polyols may contain

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Material Safety Data Sheet - Flexible Polyurethane Foam HR Grades (Cont.)

HEALTH HAZARD INFORMATION

Health Effects:

None expected from normal handling. Although 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 of 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 fumes or dust is 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 flame and from excessive heat. Smoking should be forbidden in areas where material is stored or 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 an actual full scale fire.

Material Safety Data Sheet - Flexible Polyurethane Foam HR Grades (Cont.)

SAFE HANDLING INFORMATION

Storage & Transport:

Maintain adequate sprinkler protection where large volumes of foam are kept, e.g. warehouse, fabrication areas 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 or landfill or incinerate as required by local or state regulation.

Fire/Explosion Hazard:

If ignited, the material may melt, producing flammable liquids. Burning produces toxic gases, such as carbon monoxide, oxides of nitrogen and hydrogen cyanide and intense heat and dense smoke.

Extinguishing Media: Dry chemical, water, carbon dioxide.

Special Firefighting Procedures: 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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Date: 7th November, 2008

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