

MATERIAL SAFETY DATA SHEET FOR: FULA FOAM FIRE RESISTANT FOAM

Replaces: January 2005. Date of issue: September 2007

COMPANY DETAILS

Company: H. B. Fuller Company
 Address: 16-22 Red Gum Drive, Dandenong South VIC 3175
 Telephone: (03) 9797 6222
 Emergency Telephone No: 1800 033 111

Hazardous according to criteria of Worksafe Australia

IDENTIFICATION

Product Name: Fula Foam Fire Resistant expanding polyurethane foam
 Other Names: Expanding polyurethane foam, AEROSOLS
 Manufacturer's Code: None
 UN Number: 1950
 Dangerous Goods Class: 2.2
 Subsidiary Risk: None
 Hazchem Code: None
 Poisons Schedule: Not scheduled
 Packaging Group: None assigned
 Use: Used for sealing cavities in walls, roofs and ceilings. Apply directly from aerosol can as instructed on the label.

Physical Description/Properties

Appearance: Pale red liquid -foam
 Melting Point: Not applicable
 Boiling Point: Not established
 Vapour Pressure: Not established
 Specific Gravity: 0.25 when fully cured
 Flashpoint: -104 °C (Estimated)
 VOC content (Californian South coast air quality management rule 1168) =
 Flammability Limits: Not Established
 Solubility in water: Not soluble in water

Ingredients

Hazardous ingredients	CAS No. EINECS/ELINCS No.	Conc. %	Hazard symbol	Risks (R-phrases)
tris(2-chloro-1-methylethyl) phosphate	13674-84-5 237-158-7	< 25	-	52/53 (1)
polymethylene polyphenyl isocyanate	9016-87-9	30 - 60	Xn	20-36/37/38-42/43(1)
halogenated polyetherpolyol	86675-46-9	1 - 10	Xn	22 (1)
norflurane	811-97-2 212-377-0	1 - 10	-	-
dimethyl ether	115-10-6 204-065-8	1 - 10	F+	12 (1)
isobutane	75-28-5 200-857-2	1 - 10	F+	12 (1)

(1) For R-phrases in full: see next section

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HEALTH HAZARD INFORMATION

Risk Phrases:

- Extremely flammable
- Harmful by inhalation
- Irritating to eyes, respiratory system and skin
- May cause sensitization by inhalation and skin contact

Full text of any R-phrases referred to under Ingredients:

R12 : Extremely flammable
R20 : Harmful by inhalation
R22 : Harmful if swallowed
R36 : Irritant to the eyes
R36/37/38 : Irritating to eyes, respiratory system and skin
R42/43 : May cause sensitization by inhalation and skin contact
R52/53 : Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment

Health Effects*ACUTE:*

Swallowed:

Will cause nausea, vomiting and stomach pain if swallowed.

Eye:

Eye contact will cause irritation. Will react with moisture in eye and adhere strongly.

Skin:

Skin contact may lead to irritation. Contains residual quantities of free organic isocyanates. Contact with skin may cause dermatitis, allergic responses and, in sensitive individuals, redness, swelling and blisters. Discontinue use if irritation occurs.

Inhaled:

Possible asthma-like symptoms can occur, eg coughing, wheezing and shortness of breath, together with dizziness or headache. Inhalation will aggravate existing respiratory problems. For most individuals these symptoms are reversible.

CHRONIC:

Contains trace amounts of Diphenylmethane diisocyanate. Existing respiratory problems, such as asthma, may be aggravated by the prolonged inhalation of the vapours of this product. Repeated and prolonged contact with this product may lead to chronic dermatitis or skin and respiratory sensitisation. Sensitised individuals require only trace amounts or brief exposure to isocyanates to obtain a severe reaction. Respiratory symptoms include bronchitis, bronchial spasms, pulmonary oedema. Dermal symptoms include redness, swelling, or blisters.

First Aid

Swallowed:

If swallowed, rinse mouth thoroughly with water. Give plenty of water to drink do NOT induce vomiting. Seek medical attention.

Eyes:

If in eye, irrigate immediately with copious amounts of water for 15 minutes with eyelids held open. Seek medical advice.



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Skin:

Wash skin with plenty of soap and water. Mechanical abrasion of skin may be required to remove cured foam from skin. Remove contaminated clothing and wash before re-use. Seek medical attention if swelling, redness or blistering occurs.

Inhaled:

Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Never give anything by mouth to an unconscious person. Seek medical attention.

First Aid Facilities:

Have eyewashes available where eye contact can occur

Advice to Doctor

Treat symptomatically. Substance is a polyurethane foam, which expands and solidifies on contact with air. Moisture on the skin or in eyes will react with this product.

PRECAUTIONS FOR USE

Safety Phrases:

- S2 Keep out of reach of children
- S24 Avoid contact with skin
- S45 Avoid inhaling vapours

Exposure standards [NOHSC:1003 (1995)]

POLYMETHYLENE POLYPHENYL ISOCYANATE:

TLV-TWA	:		mg/m3		ppm
TLV-STEL	:		mg/m3		ppm
TLV-Ceiling	:		mg/m3		ppm
MEL-LTEL	:	0.02(-NCO)	mg/m3	-	ppm
MEL-STEL	:	0.07(-NCO)	mg/m3	-	ppm

NORFLURANE:

OES-LTEL	:	4240	mg/m3	1000	ppm
OES-STEL	:	-	mg/m3	-	ppm
MAK	:	4200	mg/m3	1000	ppm
TRK	:		mg/m3		ppm
MAC-TGG 8h	:	4200	mg/m3		
MAC-TGG 15min	:		mg/m3		
MAC-Ceiling	:		mg/m3		



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DIMETHYL ETHER:

OES-LTEL	:	766	mg/m3	400	ppm
OES-STEL	:	958	mg/m3	500	ppm
MAK	:	1900	mg/m3	1000	ppm
TRK	:		mg/m3		ppm
MAC-TGG 8h	:	950	mg/m3		
MAC-TGG 15min	:	1500	mg/m3		
MAC-Ceiling	:		mg/m3		
GWBB-8h	:	1920	mg/m3	1000	ppm
GWK-15min	:	-	mg/m3	-	ppm
Momentary value	:		mg/m3		ppm
EC	:	1920	mg/m3	1000	ppm
EC-STEL	:	-	mg/m3	-	ppm

PROPANE:

MAK	:	1800	mg/m3	1000	ppm
TRK	:		mg/m3		ppm

ISOBUTANE:

MAK	:	2400	mg/m3	1000	ppm
TRK	:	mg/m3	ppm		

Engineering Controls:

General dilution ventilation in enclosed areas.

Personal Protection:

Avoid contact with bare skin. Wear overalls, safety goggles and impervious gloves. Application should be performed in conditions of adequate ventilation

Flammability:

Class 2.1 Flammable Gas. Liquid foam is highly flammable due to propellant. Cured product is not flammable once propellant has evaporated. When burnt or in contact with flame or hot surfaces, propellant gases can produce toxic gases. All potential sources of ignition, (open flames, pilot lights, furnace, spark producing switches, welding and electrical equipment etc.) must be eliminated both in and near work area. DO NOT SMOKE WHILE USING THIS PRODUCT. Do not incinerate or puncture the aerosol can even when empty. Always wash hands before smoking, eating, drinking or using the toilet.

SAFE HANDLING INFORMATION

Storage and Transport:

This product is a class 2.1 flammable gas. UN 1950 AEROSOLS. Observe requirements of the Australian Code for the Transport of Dangerous Goods by Road and Rail. Keep containers securely sealed and protected against physical damage.

Store below 30 °C. Do not store in direct sunlight. Avoid contamination by moisture. Keep away from open flames, sources of ignition and sources of strong heat.

Hazardous Polymerisation:

Will generate a large amount of heat when in contact with water.

Incompatibilities:

Water, amines, strong bases, chlorine, permanganate and dichromates.

Spills and Disposal:



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Remove all sources of ignition, including flame, static electricity, heat and sparks. Ensure adequate ventilation; vapours are heavier than air. Allow foaming process to complete, then collect and seal in properly labelled drums. Dispose strictly in accordance with local industrial waste disposal and environmental protection regulation. Do not puncture or incinerate can, even when empty.

Fire/Explosion Hazard:

Cans exposed to fire or strong heat sources should be removed, if safe to do so. Fire fighters to wear self contained breathing apparatus if risk of exposure to vapours. Fire fighters should wear full protective equipment. Keep containers cool with water spray to avoid pressure build up and explosion. Extinguishing media: carbon dioxide, foam, water fog.

Hazardous Decomposition

Incomplete combustion can yield carbon monoxide, oxides of nitrogen and hydrogen cyanide.

OTHER INFORMATION

No data

CONTACT POINT

Technical Manager (03) 9797 6222

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular, how to safely handle and use the product in the workplace. Since H.B. Fuller Company Australia Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for the products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.
