

MATERIAL SAFETY DATA SHEET

FIRE FOAM

DATE: 26/08/2011

1. COMPANY & PRODUCT INFORMATION

Supplier:	Macsim Australia Pty Ltd
Address:	10 Wonderland Drive Eastern Creek, NSW, 2766
Phone:	(+612) 9881 2400
Fax:	(+612) 9881 2444
Product Name:	Fire Foam
Classification:	Fire Retardant Foam
Product Use:	A universal, high quality insulation and construction foam specially developed to provide a fire retardant filler and seal between stone, brickwork and many other construction applications.
Product Code:	53FRF

2. HAZARDS IDENTIFICATION

HAZARDOUS INGREDIENTS	RISKS (R-phrases)
Diphenylmethane-4, 4'-diisocyanate Isomers und Homologues:	R20: Harmful by inhalation R36/37/38: Irritating to eyes, respiratory system and skin. R42/43: May cause sensitisation by inhalation and skin contact.
Propane / Butane:	R12: Extremely flammable
Dimethylether:	R12: Extremely flammable
Further Information:	In case of very sensitive persons low concentrations can cause asthmatic reactions. During use formation of explosive vapour-oxygen mixtures are possible especially on the ground.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS NO.	WEIGHT%	HAZARD SYMBOL	RISKS (R-phrases)
Propane/ Butane:	74-98-6/106-97-8	1-15	F+	R12
Dimethylether	115-10-6	1-15	F+	R12
Diphenylmethane-4, 4'-diisocyanate, Isomers und Homologues	9016-87-9	30-45	Xn	R20-36/37/38-42/43

4. FIRST AID MEASURES

After Ingestion:	Rinse mouth with water several times. Consult a physician and show this safety data sheet.
After Inhalation:	Move patient into fresh air. If breathing becomes difficult seek medical attention immediately.
After Eye Contact:	Hold eyelids apart and flush with water for at least 15 minutes. If irritation persists seek medical attention immediately.
After Skin Contact:	Remove completely with a dry cloth or paper towel, before washing with detergent and water. Get medical attention if irritation persists.
After Contact With Clothes:	Remove polluted clothing.

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5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	No restrictions. Foam, water spray and powder.
Fire Fighting:	Wear protective clothing and suitable breathing apparatus.
Exposure Hazards:	Remove unexposed containers from the danger area. Cool with water, container may burst.

6. ACCIDENTAL RELEASE MEASURES

Environmental Protection:	Keep spilled product out of sewers/ drains, ground water and water systems.
Measures for Cleaning Up:	Wipe or soak up spilled product and place in a container for disposal.

7. HANDLING AND STORAGE

Handling Precautions:	Handle in well-ventilated areas. Avoid contact with skin, eyes and do not swallow. Do not pierce or burn even after use. Do not spray on a naked flame or any incandescent material.
Storage Precautions:	Store in closed packing between 5°C to 25°C away from direct sunlight and other sources of heat. Keep away from source of ignition.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Personal Protection	
Respiratory Protection:	Avoid breathing the vapour. Maintain good ventilation. Use mask with A2B2P3 filter. Portable respiratory protection device (EN 136-137-140-141-143-145-400-401-401-1061)
Eye Protection:	Wear protective glasses or goggles. Full face protection (prEN 166)
Skin protection:	Chemical resistant protection gloves (prEN420 and prEN 374 part 1-5).
Recommended glove material:	Neoprene, Nitrile-Butadiene-Rubber, and Butyl Rubber. Thin disposable gloves are not suitable for long-term usage. Chemical resistant safety clothing (EN 368)
Industrial Hygiene:	Wash hands with water and soap after work and before breaks. When using, do not eat, drink or smoke. Don't rub eyes with dirty hands.
Additional information:	Contains propane/butane (MAK-value 1000ppm), Dimethylether (MAK-value 1000ppm) and diphenylmethane-4,4'-diisocyanate (MAK-value 0,005 ppm).

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information	
Form:	Aerosol
Colour:	Red
Odour:	Odourless
Flash point:	NA
Ignition temperature:	>300°C
Explosion limits:	Lower: NA Upper: NA
Vapour pressure (bar):	@ 20°C: 5,5 @ 50°C: 11,0
Density @ 20°C (g/ml):	Approximately 1,1 (water=1)
Solubility with water:	Insoluble. Reacts slowly with water during curing, liberating traces of CO ₂
pH-value @ 20°C:	NA
Viscosity 20°C (mPa.s):	NA

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10. CHEMICAL STABILITY AND REACTIVITY INFORMATION

Conditions to avoid:	Keep away from sources of ignition. At temperatures >50°C the container may burst.
Materials to avoid:	Unknown
Hazardous Decomposition Products:	None at appropriate use.

11. TOXICOLOGICAL INFORMATION

Inhalation:	May cause sensitisation.
Skin Irritation:	May cause sensitisation.
Additional information:	Contains diphenylmethane-4, 4' -diisocyanate (MAK-value 0,005 ppm). May cause sensitization by inhalation and skin contact. Avoid repeated contact or contact for a longer time. People with isocyanate allergy should not be in contact with the content. In case of very sensitive persons low concentrations can cause asthmatic reactions.

12. ECOLOGICAL INFORMATION

WGK:	1 (self-assessment)
Eco toxicity:	Unknown
Degradability:	Unknown
Environmental information:	Do not allow the material to enter water course. If water is contaminated, inform relevant authorities immediately.

13. DISPOSAL CONSIDERATIONS

Canister:	Empty canister completely and let the sprayed material cure. In use, may form flammable/explosive vapour-air mixture. Dispose of this material and its container to hazardous or special waste collection point.
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14. TRANSPORTATION INFORMATION

ADR/RID	
Name:	Aerosols
UN-Number: 1950	Class: 2
Limited Quantities: LQ	Classification Code 5A
	Danger label: 2.2
IMGD-Code	
Name:	Aerosols
UN-Number: 1950	Class: 2
EmS-NR.: 2-13	Marine Pollutant: No
ICAO/IATA-DGR	
Name:	Aerosols, non-flammable
UN-Number: 1950	Class: 2.2

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15. REGULATORY INFORMATION

Labelling according to
EC guidelines:

This product is subject to the labelling requirements of EC directives 67/548/EC.

R-Phrases:

R20: Harmful by inhalation.
R36/37/38: Irritating to eyes, respiratory system and skin.
R42/43: May cause sensitisation by inhalation and skin contact.
R12: Extremely flammable.

Additional information:

Contains Diphenylmethane 4,4' -Di-Isocyanate, isomers and homologues
Harmful by inhalation. Irritating to eyes, respiratory system and skin. May cause sensitisation by inhalation and skin contact. Contains isocyanates. See further information supplied by manufacturer.
Wear suitable respiratory equipment. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Pressurised container. Protect from sunlight and a naked flame or incandescent material. Keep away from sources of ignition - No smoking. Keep out of reach of children. In use, may form flammable/ explosive vapour-air mixture. Dispose of this material and its container to hazardous or special waste collection point.
Do not expose to temperatures exceeding 50°C.

16. OTHER INFORMATION

Further Information:

The information in this MSDS is based on our present knowledge to the date of this publication. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. It is only a guide for safe handling, use, storage, transporting and disposal of the product.

This product safety data sheet conforms to EC Directive 91/155/EEC as well as its amendments.