

# Material Safety Data Sheet



## Hazardous Substance, Dangerous Goods

### 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: **Foam Filler**

**Synonyms:**

Foam Filler 290gm  
Foam Filler 484gm  
Foam Filler 726gm

**Mancode**

620810  
620820  
620835

**Recommended use:** Expanding foam sealant and gap filler

**Supplier:** Thomson White Australia Pty Ltd  
**ABN:** 15 057 661 319  
**Street Address:** 250 Princes Highway  
Dandenong VIC 3174 Australia  
**Telephone:** (03) 9791 8211  
**Facsimile:** (03) 9791 8644

**Emergency telephone number:** 1800 039 008

### 2. HAZARDS IDENTIFICATION

This material is hazardous according to health criteria of NOHSC Australia.

**Hazard Category:**

Xn Harmful  
Xi Irritant

**Risk 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

**Safety Phrases:**

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S28 After contact with skin, wash immediately with plenty of soap suds  
S38 In case of insufficient ventilation, wear suitable respiratory equipment  
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label wherever possible)

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

**Class:** 2.1 Flammable gas

**Poisons Schedule (Aust):** Not applicable

### 3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO.	PROPORTION
Diphenylmethane 4,4' Di-isocyanate (MDI) isomers and homologues, blend of	101-68-8 & 9016-87-9	40 – 48%
Propane / butane / dimethylether	74-98-6 / 106-97-8 / 115-10-6	< 20%
Non hazardous ingredients	-	to 100%
		<hr/> 100%

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## 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766). Get to a doctor or hospital quickly.

**Inhalation:** 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. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a face mask. If breathing has stopped, apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical advice.

**Skin contact:** If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a doctor; or for 15 minutes and transport to Doctor or Hospital.

**Eye contact:** If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a doctor; or for 15 minutes and transport to Doctor or Hospital.

**Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

**Notes to physician:** Treat symptomatically. Effects may be delayed. Following severe exposures the patient should be kept under medical supervision for 48 hours.

## 5. FIRE-FIGHTING MEASURES

**Specific hazards:** Flammable gas. May form flammable vapour mixtures with air. Avoid all ignition sources. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke.

**Fire fighting further advice:** Avoid all ignition sources. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke.

**Hazchem Code:** 4W.

**Suitable extinguishing media:** If material is involved in a fire use foam, dry agent (carbon dioxide, dry chemical powder). Reaction between water and hot isocyanate may be vigorous.

## 6. ACCIDENTAL RELEASE MEASURES

### SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Treat spillage with solid or liquid decontaminant, leave to react for 10 minutes. Remove and dispose of residues.

### LARGE SPILLS

Clear area of all unprotected personnel. Wear full protective equipment to prevent skin and eye contamination and the inhalation of vapours, including air-supplied mask, PVC boots and splash suit. Contain - prevent run off into drains and waterways. Cover with wet soil, wet sand or solid decontaminant. Let the material react for 10 minutes. Shovel into open-top drums for further decontamination, if necessary. Wash area down with excess water and inspect. Test the atmosphere for MDI vapour to ensure safe-working conditions prevail prior to re-entry into contaminated area.

The composition of Liquid and Solid Decontaminants are given in Section 16.

**Dangerous Goods – Initial Emergency Response Guide No: 49**

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## 7. HANDLING AND STORAGE

**Handling:** Avoid skin and eye contact and inhalation of vapour.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10. Store away from sources of heat or ignition. Keep containers closed when not in use - check regularly for leaks.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### National occupational exposure limits:

No value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC Australia).

However for:

	TWA		STEL		CARCINOGEN CATEGORY	NOTICES
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>		
isocyanates (all) (as NCO)	-	0.02	-	0.07		"sen"

As published by the National Occupational Health & Safety Commission (NOHSC Australia).

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

'Sen' notice - sensitiser. The substance can cause a specific immune response in some people. An affected individual may subsequently react to exposure to minute levels of that substance.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

**Biological Limit Values:** As per the "National Model Regulations for the Control of Workplace Hazardous Substances [NOHSC: 1005 (1994)]" the following ingredients in this material requires Health Surveillance:

- Isocyanates

For detailed information see "Guidelines for Health Surveillance [NOHSC: 7039 (1995)]"

**Engineering measures:** Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. MDI can only be smelled if the occupational exposure limit has been exceeded considerably. Use with local exhaust ventilation or while wearing air supplied mask. Vapour heavier than air – prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapour may have collected. Keep containers closed when not in use.

**Personal protection equipment:** OVERALLS, SAFETY SHOES, FACE SHIELD OR AIR MASK, GLOVES (long).

Avoid skin and eye contact and inhalation of vapour and aerosols/mists. Wear overalls, chemical goggles or full-face shield (if splashing is possible) and elbow-length impervious gloves. Use with adequate ventilation. If inhalation risk exists wear air-supplied mask meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from neoprene or butyl rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using. Contaminated overalls should be decontaminated in 8% (dilute) ammonia solution for one hour and laundered before re-use.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form / Colour / Odour:** Light grey coloured, opaque liquid presented as an aerosol. Hydrocarbon odour

<b>Solubility:</b>	Insoluble in water
<b>Specific Gravity (20 °C):</b>	approx 1.02
<b>Relative Vapour Density (air=1):</b>	N Av
<b>Vapour Pressure (20 °C):</b>	<0.0001 hPa *
<b>Flash Point (°C):</b>	< 200 *
<b>Flammability Limits (%):</b>	1.5-16 for condensed gases
<b>Autoignition Temperature (°C):</b>	N Av
<b>Melting Point/Range (°C):</b>	N Av
<b>Boiling Point/Range (°C):</b>	<200 *
<b>pH:</b>	N App
<b>Decomposition point:</b>	N Av

\* Value for MDI

(Typical values only - consult specification sheet)  
N Av = Not available                      N App = Not applicable

## 10. STABILITY AND REACTIVITY

**Chemical stability:** This material is stable when stored and used as directed.

**Conditions to avoid:** Temperatures above 50° C

**Incompatible Materials:** Incompatible with active hydrogen including water, strong oxidizers.

**Hazardous decomposition products:** Carbon oxides, nitrogen oxides, isocyanate vapours and hydrogen cyanide.

**Hazardous reactions:** Reaction between water and hot isocyanate may be vigorous.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects

**Inhalation:** A respiratory irritant and potential respiratory sensitiser; repeated inhalation of vapour or aerosol at levels above the occupational exposure standard could cause respiratory sensitisation. Symptoms may include irritation of the eyes, nose, throat and lungs, possibly with dryness of the throat, tightness of the chest and difficulty in breathing. Onset of respiratory symptoms may be delayed for several hours after exposure. A hyper-reactive response may develop to even minimal concentrations of MDI in sensitised individuals.

**Skin contact:** Contact with skin will result in moderate irritation. Repeated or prolonged contact may cause skin sensitisation. Animal studies have shown that respiratory sensitisation can be induced by skin contact with known respiratory sensitisers including di-isocyanates. These results emphasise the need for protective clothing including gloves to be worn when handling these chemicals or in maintenance work.

**Eye contact:** Both vapour and liquid are eye irritants.

**Ingestion:** Swallowing may result in irritation of the gastrointestinal tract.

**Long Term Effects:** There are reports that chronic exposure by inhalation may result in a permanent decrease in lung function.

### Acute toxicity / Chronic toxicity

No LD50 data available for the product.

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## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Ecotoxicity:** No information available.

**Persistence and degradability:** No information available.

**Mobility:** No information available.

## 13. DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority.

## 14. TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

**UN No:** 1950  
**Dangerous Goods Class:** 2.1  
**Packing Group:** Not allocated.  
**Hazchem Code:** 4W  
**Emergency Response Guide No:** 49

**Proper Shipping Name:** AEROSOLS

**Segregation Dangerous Goods:** Not to be loaded with explosives (Class 1), flammable liquids (Class 3), if both are in bulk, flammable solids (Class 4.1), spontaneously combustible substances (Class 4.2), dangerous when wet substances (Class 4.3), oxidising agents (Class 5.1), organic peroxides (Class 5.2) or radioactive substances (Class 7), however exemptions may apply.

### MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

**UN No:** 1950  
**Dangerous Goods Class:** 2.1  
**Packing Group:** Not allocated.  
**Proper Shipping Name:** AEROSOLS

### AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

**UN No:** 1950  
**Dangerous Goods Class:** 2.1  
**Packing Group:** Not allocated.  
**Proper Shipping Name:** AEROSOLS

## 15. REGULATORY INFORMATION

**Poisons Schedule (Aust):** Not applicable

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

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## 16. OTHER INFORMATION

### Literary reference

This Material Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd on behalf of its client.

Reason(s) For Issue: Revision

Material Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

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 Thomson White 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 product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.