

Material Safety Data Sheet

AUSTHANE PIR45 Rigid Polyisocyanurate Foam

Issue Date July 2011

Status Issued by AUS

Non Hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name AUSTHANE PIR45 Rigid PIR Foam
Product Use Rigid polyisocyanurate insulation foam product
Company Australian Urethane Systems Pty Limited
Address 25 Garling Road Kings Park NSW 2148
Emergency Tel. 1800 039 008 **International:** + 800 2436 2255
Telephone / Telex Number Tel: (02) 9678 9833 Fax: (02) 9678 9887

Other Names	Name	Manf. Code
	na	PIR45

Other Information General purpose rigid polyisocyanurate foam for use as thermal insulation of tanks, process vessels equipment and pipes, laminated truck body sections. For use in selected marine / boat building applications and general building panel / components / construction applications.

2. HAZARDS IDENTIFICATION

Non-Hazardous / Non-Dangerous Goods.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion	
	Polyol-diisocyanate block copolymer	Mixture	> 60 %	w/w
	Chlorinated Aliphatic Phosphate Blend	Mixture	< 10 %	w/w
	ecomate® blowing agent [US Patent No. 6,753,357]	Proprietary mixture	< 10 %	w/w
	Non - hazardous ingredients	Mixture	< 10%	w/w

4. FIRST AID MEASURES

Inhalation Remove subject to fresh air. Remove dust contaminated clothing. Rinse face/mouth with warm water. Give water to drink to reduce breathing irritation. Keep at rest until fully recovered. If continued irritation / difficulty occurs when breathing seek medical attention.

Ingestion Remove subject to fresh air. Remove dust contaminated clothing. Rinse face/mouth with warm water. Give water to drink to reduce breathing irritation. Keep at rest until fully recovered. If continued irritation / difficulty occurs when breathing seek medical attention.

Skin Wash in flowing water or shower. Remove contaminated clothing and wash before reuse. Prolonged or repeated contact may cause skin irritation.

Eye Irrigate with copious flowing water immediately and continuously for 15 minutes. In all cases of eye contamination/irritation it is recommended to seek medical advice/attention.

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First Aid Facilities Eye wash and normal washroom facilities.

Advice to Doctor No specific antidote. Supportive care.

5. FIRE FIGHTING MEASURES

Extinguishing Media Foam, alcohol resistant foam, carbon dioxide and dry chemical.

Specific Methods Fire fighters to wear positive pressure self-contained breathing apparatus safety glasses, boots, gloves and coveralls.

Specific Hazards May decompose in fire releasing products of greater hazard.
Do not breathe smoke from burning product.

6. ACCIDENTAL RELEASE MEASURES

Do not permit broken, particulate debris to contaminate waterways, sewers or drains.
Avoid skin and eye contact. Wear gloves, safety glasses and coveralls when handling.

7. HANDLING AND STORAGE

Handling Avoid generating and inhaling dust from the product. Wear normal industrial safety clothing - impervious PVC gloves, Safety goggles or Face Mask and Coveralls.
Good general ventilation should be sufficient for most conditions of use.

Storage Store in a covered, well ventilated area. Store away from oxidising agents and sources of heat.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits Use only in a well ventilated area to avoid exposure to dust/ particulate matter from the product.

Personal Protective Equipment Wear normal industrial Safety clothing - impervious PVC gloves, Safety goggles or Face Mask and Overalls. Good general ventilation should be sufficient for most conditions of use. Always wash hands before smoking, eating, drinking or using toilet.
Wash contaminated clothing and other protective equipment before re-using or storing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Yellowish / amber cellular solid

Odour None

pH Not applicable

Vapour Pressure Not applicable

Vapour Density [Air = 1] Not applicable

Melting Point > 400 °C

Boiling Point Not applicable

Solubility in Water Insoluble

Solubility in Organic Solvents Generally insoluble

Specific Gravity [Water = 1] 0.042 – 0.049 g/ml (25 °C)

Flashpoint Not applicable

Flammability Combustible under high temperature / fire conditions

10. STABILITY AND REACTIVITY

Stability	Stable
Hazardous Polymerisation	Will not occur.
Materials to Avoid	Reacts with strong acids and specific organic solvents.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	<p>Animal studies have not shown an association between lung tumours in rats and inhalation exposure or intra bronchial or intra tracheal implantation of polyurethane dusts. However, lung effects have been observed where particles were 10µm or less in diameter.</p> <p>Note 1: Monkeys inhaling the dust at 10mg/m³, 6 hours /day for 18 months showed changes in pulmonary function suggestive of small airway obstructive impairment.</p> <p>Note 2: Polyurethane foam has been classified by IARC as Group 3 – Not classifiable as to its carcinogenicity to humans.</p>
Inhalation	Inhalation of vapour may cause abrasion to the gastrointestinal tract.
Ingestion	No LD ₅₀ data is available
Skin	Prolonged or repeated contact may cause skin irritation.
Eye	May cause eye irritation. Corneal injury is unlikely.
Chronic Effects	Prolonged or repeated contact may cause skin irritation.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways with any dust / particulate residues.

13. DISPOSAL CONSIDERATIONS

Solid Residues	Dispose of in solid waste.
Containers	Not applicable

14. TRANSPORT INFORMATION

This product is not classified in the Australian Dangerous Goods Code either by reference to a specific substance name or a generic substance name or group.

UN Number	None allocated
Proper Shipping Name	Not applicable
DG Class	Not relevant
Hazchem Code	Not relevant
Packaging Group	Not relevant
EPG Number	Nil
IERG Number	Nil

15. REGULATORY INFORMATION

Risk Phrase	Nil
Safety Phrase	Nil
Poisons Schedule	None allocated
Hazard Category	Non hazardous

16. OTHER INFORMATION

Principal References	Note 1:	Patty's Industrial Hygiene and Toxicology, Vol. 2, 3 rd Edition G Clayton and F Clayton, Wiley-Interscience, 1981
	Note 2:	IARC Monographs on the Evaluation of Carcinogenic Risk of Chemicals to Humans. Vol. 19, WHO , 1979
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