Boat Craft Pacific®

MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT IDENTIFICATION

Trade name	POURING FOAM
Chemical Name & Synonyms	Polyol/MDI two component kit
Manufacturer	Boatcraft Pacific Pty. Ltd.
	46 Chetwynd St., Loganholme
	Queensland 4129 Australia
Contact Telephone	07 3806 1944

UN No.	None Allocated	Hazchem	N/A
DG Class	None Allocated	Poisons Schedule	6
CAS No	Mixture	Pkge Group	III

Intended usage	Two component polyurethane rigid foam system.

Classified as hazardous according to the criteria of Worksafe Australia.

Part A	**Isocyanate Component**
Risk Phrases	R20 Harmful by inhalation.
	R36/37/38 - Irritating to the eyes, respiratory system and skin
	R42/43 - May cause sensitization by inhalation and skin contact.
Safety Phrases	S23 Do not breath vapour/spray.
	S36/37 Wear suitable protective clothing and gloves
	S45 In case of accident or if you feel unwell, contact a doctor immediately and show him the container or label.
Part B	**Polyol Component**
Risk Phrases	None allocated
Safety Phrases	S7 Keep container tightly closed
	S18 Handle and open container with care.
	S24/25 Avoid contact with skin and eyes.
	S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
	S45 In case of accident or if you feel unwell, contact a doctor immediately and show him the container or label.

SECTION 2. INGREDIENTS

Part A, Isocyanate Component		
Isocyanic acid, polymethylenepolyphenylene ester	Cas No. 9016-87-9	>60%
Part B, Polyol Component		
Polyol blend - non hazardous	Cas No.	>60%
All other ingredients not hazardous according to NOHSC Criteria		

SECTION 3. PHYSICAL & EXPOSURE DATA

Appearance/odour	Viscous liquids, almost odourless.
Boiling Range	>135 °C
Flash point	Part A > 204°C; Part B > 65°C
Specific Gravity	Part A. 1.2g/mL Part B. 1.14g/mL
Vapour Pressure	Part A <10.5mm Hg @ 25°C Part B 11.77psi @ 55°C
pH	11-13
Solubility with water	Part A reacts with water. Part B soluble
Explosive limits	N/A

Product Exposure Limits

TLV TWA part A Isocyanate	TWA 0.02 mg/m3 STEL 0.07 mg/m3 Notices SEN
TLV TWA part B polyol	No value assigned by NHMRC

Toxicity and Irritation Data

LD(50) (ingestion rat) -isocyanate >2 gm/kg
LD(50) (dermal rabbit) - isocyanate >2 gm/kg
LD(50) (inhalation rat, 4hrs) - isocyanate 490mg/m3

SECTION 4. HEALTH HAZARD

No adverse effects are expected if the product is handled in accordance with this safety Data Sheet and with the product label.

Symptoms of Exposure: Acute and Chronic Effects

Ingestion: Considered as an unlikely route of entry in commercial/industrial environments.
Part A Isocyanate
Low toxicity if swallowed. Ingestion may cause gastrointestinal irritation.
Part B Polyol
May cause irritation to the mouth, throat and stomach with effects including mucous buildup, irritation to the tongue and lips and pains in the stomach which may lead to nausea, vomiting and diarrhea.

Eye contact:
Part A Isocyanate
May cause moderate eye irritation. May cause very slight transient (temporary) corneal injury.
Part B. Polyol
Severely irritating to the eyes and may burn eye tissue.

Skin contact:
Part A Isocyanate
May cause slight to moderate irritation. May stain skin. May cause sensitization by skin contact.
PartB Polyol.
May cause irritation to the skin, with effects including redness and itchiness..

Inhalation:
Part A Isocyanate
Harmful if inhaled. Vapor and aerosol can cause severe irritation of the respiratory tract with burning sensation of the nose and throat. High exposure can lead to inflammation of lung tissue and fluid in the lungs. In hypersensitive people, very low concentrations may lead to asthmatic signs and symptoms. Effects may be delayed. May cause sensitization by inhalation.
Part B Polyol.
May cause irritation to the nose, throat and respiratory system with effects including dizziness, headache, and loss of co-ordination.

Systemic and other effects:
Part A Isocyanate
Prolonged or repeated skin contact may lead to dermatitis.
Prolonged contact may cause severe eye irritation and some form of permanent eye damage may occur.
Prolonged or repeated exposure may lead to irreversible damage to health.
Chronic exposure by inhalation may result in a permanent decrease in lung function.
Prolonged or repeated contact with this substance will cause sensitization by inhalation.
Prolonged or repeated contact with this substance will cause sensitization by inhalation.
Part B Polyol.
The ingredients may cause adverse effects including sensitization. Symptoms include itching rash and respiratory congestion.

Emergency & First Aid Procedures

Ingestion:
Part A.Isocyanate
DO NOT INDUCE VOMITING. Seek medical attention immediately. Give nothing by mouth. Wash out the mouth with water (do not swallow).
Part B Polyol
DO NOT INDUCE VOMITING. If conscious give water or milk to rinse out mouth and drink. Provide liquid slowly but as much as casualty will drink. Transport to hospital or doctor without delay. Activated charcoal may be helpful.

Eye contact: Both components.
Immediately hold the eyes open and irrigate eyes with running water for at least 15 minutes. Ensure irrigation under eyelids by occasionally lifting the upper and lower lids. Transport to doctor or hospital without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin contact: Both components.
Immediately remove all contaminated clothing including footwear. Wash affected areas thoroughly with detergent hand cleaner and rinse with plenty of water. Seek medical attention in event of irritation.

Inhalation: Both components.
Remove to fresh air, lie patient down, keep warm and rested. If breathing is shallow or has stopped, ensure clear airway and apply resuscitation. Administer oxygen. Transport to hospital or doctor.

Notes to physician: Treat symptomatically.

SECTION 5. PERSONAL PROTECTION & HANDLING

Protective Equipment

Eyes	Goggles or face shield
Hands/feet	PVC or natural rubber gloves, full overalls, safety shoes
Respiratory	Ensure adequate ventilation. Wear organic vapor respirator or self-contained breathing apparatus in enclosed areas.

Remove and wash all contaminated clothing and equipment.
Handling Procedures

Handle in well ventilated area. Always observe conditions of good industrial hygiene and safe working practice.

SECTION 6. FIRE & EXPLOSION

Stability
Stable for minimum 2 years at room temperature. Excess heating over long periods will degrade ingredients. .

Flammability
Products will support combustion if heated but will not spontaneously ignite or explode.

Hazardous Decomposition Products
On burning will emit toxic fumes of oxides of nitrogen, isocyanate vapors, hydrogen cyanide, carbon monoxide and carbon dioxide.

Hazardous Polymerization
Part A. Isocyanate can react with itself at temperature above 160°C.
Reactions will not occur in absence of contact with reactive elements or unless the separately packed components are mixed in large quantities. This will cause irreversible polymerization with considerable heat build-up.

Incompatibility
Avoid contact with water, strong acids, alcohols, amines, bases, alkalis, oxidizing materials, galvanized metals, and copper and its alloys.

Fire Fighting
Toxic fumes will be evolved when this material is involved in a fire. Fire fighters must wear full protective clothing and self contained breathing apparatus.

Extinguishing Media
Foam, carbon dioxide, dry chemical powder.

SECTION 7. STORAGE & TRANSPORT

DG Class	None allocated
Packaging group & Label	None Allocated
Suitable Containers	Pre-packaged
Storage procedures	Containers will develop pressure at high temperatures. Store at room temperature under cover in accordance with AS1940 and State Regulations.
Transport	Not defined as a dangerous good, not regulated for transport under UN and local regulations.
Label	Harmful (Xn), Irritant (Xi)

SECTION 8. SPILLS & DISPOSAL

Minor spill	Absorb into waste cloth or other suitable absorbent. Avoid contact with skin or eyes.
Major spill	Contain with sand or earth, absorb with suitable absorbent, collect and seal in properly labeled drums for disposal. Prevent run off into drains or waterways.
Disposal	Suitable for incineration by approved agent or bury in approved landfill according to local regulations. .

SECTION 9. AUTHORIZATION

Name	I. R. Phillips
Title	Director
Issue Date	June 8, 2009

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