

# Boat Craft Pacific

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## MATERIAL SAFETY DATA SHEET

### SECTION 1. PRODUCT IDENTIFICATION

Trade name	Z-THANE POLYURETHANE		
Chemical Name & Synonyms	Polyol/MDI two component kit		
Manufacturer	BoatCraft Pacific. Pty. Ltd. 22 Babdoyle St Loganholme, Queensland 4129 Australia		
Emergency Contact Telephone	07 3806 1944, (ah) 07 3299 1468		
UN No.	None allocated	Hazchem	2X
DG Class	None allocated	Poisons Schedule	6
CAS No.	Mixture	Pkge Grp	III
Intended usage	A two component kit for moulding Polyurethane plastic products		

Classified as hazardous according to the criteria of Worksafe Australia

### SECTION 2. INGREDIENTS

High molecular weight polyols	30 – 65 %
Low molecular weight polyols	1 – 10 %
Plasticiser oils	0 – 60 %
Diphenyl methane di-isocyanate	5 – 50 %
Catalysts, pigments	< 1 %

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**SECTION 3. PHYSICAL & EXPOSURE DATA**

Physical data

Appearance / odour	Viscous liquids almost odourless
Boiling range	> 135 deg C
Flash Point	> 195 deg C
Specific gravity	1.1 – 1.2 (Part A), 1.05 (Part B)
Vapour pressure	Low at 20 deg C
Vapour density (air = 1)	> 1 at 20 deg C
Volatile component (% vol)	0 %
pH	N/A
Solubility with water	Insoluble
Explosive limits	N/A

Product Exposure Limits

'A' component	
TLV TWA isocyanate (as -NCO)	0.02 mg/cu m 'Sen' notice
STEL isocyanate	0.07 mg/cu m
TLV TWA plasticiser	5 mg/cu m
'B' component	
TLV TWA	5 mg/cu m

Toxicity and Irritation Data

LD(50) for ingestion (rat) - isocyanate	>4 gm/kg	-
- polyols	>4 gm/kg	
- plastiiciser	30 gm/kg	

**SECTION 4. HEALTH HAZARD**

Symptoms of Exposure: Acute and Chronic Effects

Ingestion:

Can result in irritation of the gastrointestinal tract

Eye contact:

The liquid may be mildly irritating to the eyes.

Skin contact:

Liquid may be irritating to the skin and may be capable of causing allergic skin reactions. Repeated or prolonged contact may lead to dermatitic effects and may cause sensitisation in some individuals. Temporary black staining of the skin can occur following contact with Part A component only, and takes 3 - 4 days before skin returns to normal colour.

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**Inhalation:**

The vapour pressure from these products is very low at ambient temperatures and is unlikely to cause exposure hazard from normal handling. Exposure to greater amounts of vapour if the liquids are heated, or frequent or prolonged exposure, can cause respiratory irritation and may cause sensitisation in some individuals. Exposure symptoms are predominantly asthmatic like congestion.

**Systemic and other effects:**

The ingredients may cause adverse effects including sensitisation. Symptoms include itching rash and respiratory asthma-like congestion.

**Emergency & First Aid Procedures**

**Ingestion:**

**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:**

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. Materials containing MDI may react with moisture of the eye, forming a thick deposit which may be difficult to wash away

**Skin contact:**

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:**

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.

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**SECTION 5. PERSONAL PROTECTION & HANDLING**

Protective Equipment

Eyes: Goggles or face shield  
Hands/feet: Rubber gloves, full overalls, safety shoes  
Respiratory: Ensure adequate ventilation. Wear organic vapour 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 cyanogen, oxides of nitrogen, carbon monoxide and carbon dioxide.

Hazardous Polymerisation

Will not occur unless the separately packed components are mixed in large quantities. This will cause irreversible polymerization with considerable heat build up.

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Incompatibility

Avoid contact with water, strong acids, alkalis, oxidising materials, alcohols amines or other chemicals having reactive -H groups.

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	6.1(b)
Packaging Group & Label	III
Suitable Containers	Approved poisons containers
Storage Procedures	Containers will develop pressure at high temperatures. Store at room temperature under cover in accordance with AS1940 and State Poisons Acts.
Transport	Not regulated for transport under UN and local regulations.

**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 labelled 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. AUTHORISATION**

Name:	B.H. McConkey
Title	Technical Director
Issue Date	September 28, 2002