

# BoatCraft Pacific

## MATERIAL SAFETY DATA SHEET

### SECTION 1. PRODUCT IDENTIFICATION

Trade name	PURBOND		
Chemical Name & Synonyms	Polyurethane prepolymer		
Manufacturer	BoatCraft Pacific Pty. Ltd. 22 Babbdoyle St Loganholme, Queensland 4129 Australia		
Emergency Contact Telephone	07 3806 1944, (ah) 07 3299 1468		
UN No.	None allocated	Hazchem	None allocated
DG Class	None allocated	Poisons Schedule	S6
CAS No.	Mixture	Pkge Grp	None allocated
Intended usage	A moisture curing adhesive		

Classified as hazardous according to the criteria of Worksafe Australia

### SECTION 2. INGREDIENTS

Partly polymerized Diphenyl methane di-isocyanate

### SECTION 3. PHYSICAL & EXPOSURE DATA

#### Physical data

Appearance / odour	Viscous liquid almost odourless
Boiling range	High – N/A
Flash Point	> 195 deg C
Specific gravity	1.12
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

TLV /TWA isocyanate (as -NCO)	0.02 mg/cu m 'Sen' notice
STEL isocyanate	0.07 mg/cu m

#### Toxicity and Irritation Data

LD(50) for ingestion (rat) - isocyanate	>10 gm/kg
LD50 dermal (rabbit)	>10 gm/kg
LC50 inhalation (rat)	178 mg/cu m

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Skin (rabbit)  
Eye (rabbit)

500 mg/24 hr  
100 ug

Respiratory hypersensitivity in guinea pigs has resulted from dermal exposure to MDI.

## 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:

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, and takes 3 - 4 days before skin returns to normal colour.

#### 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. Inhalation of mists or aerosols can produce respiratory irritation.

#### Systemic and other effects:

The ingredients may cause adverse effects including sensitisation. Symptoms include itching rash and respiratory asthma-like congestion. This emphasizes the need for wearing protective gloves and clothing when handling this chemical.

### 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

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## 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.

## 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.

### Engineering Controls

Ensure ventilation is adequate to maintain air concentration below Exposure Standards. Vapour is heavier than air – prevent concentration in hollows or sumps. Do not enter confined spaces where vapour may have collected. Keep all containers closed when not in use.

## 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 react exothermically with water and all organic compounds containing reactive hydrogen groups.

### 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.

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## Extinguishing Media

Foam, carbon dioxide, dry chemical powder.

## **SECTION 7. STORAGE & TRANSPORT**

DG Class	Scheduled Poison S6. Classified as C2 (combustible liquid) for the purpose of storage and handling according to AS1940. Not defined as a Dangerous Good by the Australian Code for Transport of Dangerous Goods by Road and Rail.
Packaging Group & Label	None allocated.
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. Keep dry, product reacts with water.
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. Decontaminate with dilute ammonia and detergent.
Disposal	Suitable for incineration by approved agent or bury in approved landfill according to local regulations. Convert to stable disposable solid by reacting with dilute ammonia.

## **SECTION 9. AUTHORISATION**

Name:	B.H. McConkey
Title	Technical Director
Issue Date	November 6, 2002