BoatCraft Pacific

MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT IDENTIFICATION

Trade name	AQUACOTE POLYURETHANE COATING
Chemical Name & Synonyms	Water based polyurethane dispersion
Manufacturer	BoatCraft Pacific Pty. Ltd. 46 Chetwynd St Loganholme, Queensland 4129 Australia
Emergency Contact Telephone	07 3806 1944, (ah) 07 3299 1468

UN No.	None allocated	Hazchem	N/A
DG Class	None allocated	Poisons Schedule	N/A
CAS No.	Mixture	Pkge Grp	N/A

Intended usage	A water based exterior/marine coating packaged as two separate components

Hazardous according to the criteria of Worksafe Australia

SECTION 2. INGREDIENTS

Aliphatic polyurethane	CAS No. -	20 - 25 %
N-methyl pyrollidone	CAS No. 872-50-4	35 – 45 %
Triethylamine	CAS No. 121-44-8	< 1 %
Pigments	CAS No. -	0 - 15 %
Polyfunctional aziridine	CAS No. 64265-57-2	1.5 %
Water	CAS No. 7732-16-5	Bal

SECTION 3. PHYSICAL & EXPOSURE DATA

Physical data

Appearance / odour	Low viscosity liquids
Boiling range	100 degC
Flash Point	> 100 deg C
Specific gravity	1.05
Vapour pressure	3.06
Vapour density (air = 1)	> 1 at 20 deg C
Volatile component (% vol)	60 %
pH	8
Solubility with water	Soluble
Explosive limits	N/A

Product Exposure Limits
TLV TWA triethylamine TWA 3 ppm STEL 5 ppm
No values have been assigned for other ingredients

Toxicity and Irritation Data

LD(50) for ingestion (rat) – N-methyl –2- pyrrolidone	3.6 gm per kgm
LD(50) for ingestion (rat) – Aziridine	3.04 gm per kgm
LD50 dermal (rabbit) – N-methyl-2-pyrrolidone	8 gm per kgm
Inhalation	No effects

Negative in AMES test for mutagenicity.

AZIRIDINE. There is evidence of genotoxicity and therefore is a possible animal carcinogen.

POLYURETHANE. EMULSION. A study on pregnant female rats on day 6-15 of gestation via dermal administration has shown that high doses produce embryo/foetotoxic effects in the presence of maternal toxicity (dermal dose 750 mgm/kgm body weight)

These particular data are not considered relevant to normal industrial use but emphasise the need for care in handling.

SECTION 4. HEALTH HAZARD

Symptoms of Exposure: Acute and Chronic Effects
No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Synptoms that may arise if the product is mishandled are:

ACUTE EFFECTS
Ingestion:
Can result in irritation of the gastrointestinal tract, nausea, vomiting, and pain. Considered as an unlikely route of entry in commercial/industrial environments.

Eye contact:
A severe eye irritant. Contamination of the eyes can result in permanent injury.

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.

Inhalation:
The vapour is mildly irritating to the mucous membranes and respiratory tract. The vapour pressure from these products is very low at ambient temperatures and is unlikely to cause exposure from normal handling. Frequent or prolonged exposure can cause respiratory irritation and may cause sensitisation in some individuals. Overexposure symptoms include headache, swelling and congestion of the eyes and sinuses

CHRONIC EFFECTS
No information available for the products. Not classified as sensitisers or carcinogens by Worksafe Australia.

Emergency & First Aid Procedures

Ingestion:
DO NOT INDUCE VOMITING. If conscious give water to rinse out mouth and drink. Provide liquid slowly but as much as casualty will drink. Transport to hospital or doctor without delay.

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.

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.

If spraying the product avoid contact with overspray mists. Wear full personal coveralls, a mask or respirator, and ensure good extractive ventilation to maintain air concentrations of components below quoted exposure standards.

SECTION 6. FIRE & EXPLOSION

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

Flammability
Liquid products will not support combustion. Dry residues can burn if ignited

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

Hazardous Polymerisation
Will not occur in absence of contact with reactive elements or unless the separately packed components are mixed in large quantities. This may cause irreversible polymerization.

Incompatibility
Avoid contact with strong acids, alkalis, oxidising materials.

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
Water, foam, carbon dioxide, dry chemical powder.

SECTION 7. STORAGE & TRANSPORT

DG Class	Non hazardous
Packaging Group & Label	N/A
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 Poisons Acts.
Transport	Not defined as a dangerous good, 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	June 7, 2009

BoatCraft Pacific Pty. Ltd. A.C.N. 057-731-174
46 Chetwynd St., Loganholme, Queensland 4129
Tel (+61) 07 3806 1944 Fax (+61) 07 3209 7711
Email: info@boatcraft.com.au