

MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT IDENTIFICATION

Trade name	Cp-R-Bote Thinners
Chemical Name & Synonyms	Dimethylbenzenes, xylene
Manufacturer	Boatcraft Pacific Pty. Ltd.
	46 Chetwynd St., Loganholme
	Queensland 4129 Australia
Contact Telephone	07 3806 1944

UN No.	1307	Hazchem	3[Y]
DG Class	3.2 Flammable	Poisons Schedule	S6
CAS No	1330-20-7	Pkge Group	III

Intended usage	Thinners for adjusting CopRBote viscosity when spraying.
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Classified as hazardous according to the criteria of Worksafe Australia.

Risk Phrases	R10 Flammable
Risk Phrases	R20/21 Harmful by inhalation and in contact with skin.
	R38 Irritating to skin.
Safety Phrases	S2 Keep out of reach of children.
	S16 Keep away from sources of ignition - no smoking
	S24/25 Avoid contact with skin and eyes.
	S29 Do not empty into drains.
	S43: In case of fire use sand, earth, chemical powder or foam.

Special Considerations for Repair And/Or Maintenance of Contaminated Equipment:

Empty containers retain residue (liquid and/or vapour) and are dangerous. Do not pressure cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. Vapour is heavier than air – prevent concentration in hollows or sumps. Do not enter confined spaces where vapour may have collected. Keep containers closed when not in use.

SECTION 2. INGREDIENTS

Dimethylbenzenes	CAS No. 1330-20-7	>80% w/w
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SECTION 3. PHYSICAL & EXPOSURE DATA

Appearance/odour	Colourless liquid, pleasant sweet odour
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Boiling Range	138°C
Flash point	<26°C
Specific Gravity	0.8
Vapour Pressure	5, 6, 6.5 mm Hg at 20°C
Vapour Density (air = 1)	4.35 at 20°C
Volatile Component (% vol)	100%
pH	N/A
Solubility with water	Insoluble 0.175kg/m ³
Autoignition temperature	463°C
Explosive limits	LEL: 0.8% UEL: 7%

Product Exposure Limits

TLV /TWA 80ppm 350mg/cu m
 STEL 125ppm 543mg/cu m

Toxicity and Irritation Data

LD(50) for ingestion (rat) >2000mg/kg
 Demal (rabbit) >2000mg/kg
 LC(50) inhalation (rat) 4hr 20mg/L

SECTION 4. HEALTH HAZARD

Symptoms of Exposure: Acute and Chronic Effects

Ingestion:

If swallowed may cause lung damage on vomiting. Will cause central nervous system depression. May cause discomfort on swallowing. Vapors will cause drowsiness and dizziness and ingestion may result in headaches and nausea.

Eye contact:

Eye contact with this product will cause redness and swelling with a burning sensation and blurred vision.

Skin contact:

Harmful in contact with skin. Symptoms include burning sensation, redness swelling and possible blistering.

Inhalation:

Harmful by inhalation. Vapors will cause drowsiness. There is the possibility of organ damage over prolonged use or exposure. Central nervous system depression includes nausea, headaches, dizziness, and possibly loss of consciousness.

Systemic and other effects:

This product contains up to 10% of ethylbenzene. IARC has evaluated ethylbenzene and classified it as a "possible human carcinogen" (Group 2B) based on sufficient evidence for cancer in exposed humans. This product may contain 0.1 to 1% naphthalene. IARC evaluated naphthalene and concluded that there was sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in humans. Accordingly, IARC classified naphthalene as a possible human carcinogen (Group 2B).

Persons with pre-existing liver, kidney, central nervous system or skin complaints should avoid unnecessary exposure to this product. Every effort to protect eyes, respiratory tract and skin should be taken in these circumstances.

SECTION 5. FIRST AID MEASURES.

Ingestion:

If swallowed, DO NOT induce vomiting. Keep at rest. Seek immediate medical attention.

Eye contact:

Flush eyes with large amounts of water until irritation subsides. Seek immediate medical attention.

Skin contact:

Flush area with large amounts of water and wash area with soap if available. Remove contaminated clothing, including shoes, and launder before reuse. Seek medical attention for skin irritations.

Inhalation:

Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Seek immediate medical attention.

Notes to physician: Treat symptomatically. Avoid gastric lavage: risk of aspiration of product to the lungs with the potential to cause chemical pneumonitis.

SECTION 6. PERSONAL PROTECTION & HANDLING

Protective Equipment

Eyes	Goggles or face shield. Safety showers with eye wash facilities should be available.
Hands/feet	Chemical resistant gloves (PVC, neoprene or nitrile rubber) , full overalls, safety shoes
Respiratory	Ensure adequate ventilation. Wear organic vapour respirator (Type A material is considered suitable). or selfcontained breathing apparatus in enclosed areas.

Remove and wash all contaminated clothing and equipment.

Handling Procedures

This product is flammable. Do not open near open flame, sources of heat or ignition. No smoking. Keep container closed. Handle containers with care. Open slowly to control possible pressure release. use grounding leads to avoid discharge (electrical spark.)

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 7. FIRE & EXPLOSION

Stability

Stable.

Flammability

Highly flammable liquid. May form flammable mixtures with air. The vapour is heavier than air and may travel along the ground; distant ignition and flash back are possible. Run off to sewers and drains may cause explosions. Isolate for at least 800 metres in all directions if tanks or tankers are involved. The use of compressed air for filling, discharging, mixing or handling is prohibited due to the vapour hazard. All vessels must be earthed to avoid generation of static charges when agitating or transferring. Avoid all ignition sources. Intrinsically safe equipment is necessary in areas where this chemical is being used.

Hazardous Decomposition Products
Carbon dioxide and carbon monoxide.

Hazardous Polymerisation
Will not occur.

Incompatibility
Natural rubber, Butyl rubber, EPDM, Polystyrene. Mixing with strong oxidising agents causes violent reactions.

Fire Fighting
Keep storage tanks, pipelines, fire-exposed surfaces etc cool with water spray. Shut off any leak if safe to do so and remove sources of re-ignition. Vapour/air mixtures may ignite explosively and flashback along the vapour trail may occur. Fire-fighters must wear self-contained breathing apparatus with full face-mask and protective clothing.

Extinguishing Media
Use foam, CO2 or powder to extinguish fire. dry chemical (Carbon dioxide or dry chemical powder)

SECTION 8. STORAGE & TRANSPORT

DG Class	3
Packaging group & Label	II
Suitable Containers	DG Cans
Storage procedures	<p>Store in tightly closed containers in cool, dry, isolated and well ventilated areas away from heat, sources of ignition and incompatibles. Store away from oxidising agents. Keep containers closed at all times – check regularly for leaks. Do not eat, drink or smoke in areas of use or storage. Observe State Regulations concerning the storage and handling of Dangerous Goods. Store with all precautions required for handling Flammable Liquids. The requirement of Australian Standards AS 1940 should be observed in addition to AS 1020, AS 1076, AS2380 and AS 3000.</p> <p>Not to be stored with explosives (Class 1), flammable gases in bulk (Class 2.1), poisonous gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidizing agents (Class 5.1), organic peroxides (Class 5.2), radioactive substances (Class 7).</p>
Transport All modes.	UN 1307 DG Class 3 Proper Shipping Name XYLENE Hazchem 3[Y]

SECTION 9. SPILLS & DISPOSAL

Minor spill	In the event of a spillage eliminate all sources of ignition and take measures to prevent static discharge – no smoking. Absorb into waste cloth or other suitable absorbent. Avoid contact with skin or eyes. Wash the cleaned up area with copious volumes of water to remove any trace amounts of product.
Major spill	In the event of a spillage eliminate all sources of ignition and take

	measures to prevent static discharge – no smoking. 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. Ventilate area well and ensure the atmosphere is safe before personnel return to the work area.
Disposal	Product must be contained and not disposed to sewerage systems, drains or waterways. Advise flammable nature. Dispose of all waste containers and used drums in accordance with local authority guidelines. Non-returnable containers should be de-gassed prior to disposal. Suitable for incineration by approved agent under controlled conditions if permitted by local authorities, otherwise disposal must be in accordance with local waste and environmental authority requirements.

SECTION 10. ECOLOGICAL INFORMATION

Keep out of sewers, storm drains, surface waters and soil

When released into the soil, may evaporate and biodegrade to a moderate extent.

When released into the water, may biodegrade to a moderate extent.

When released into the air, may be moderately degraded by photo-chemical reactions

Has the potential to bioaccumulate.

SECTION 11. AUTHORISATION

Issue Date	
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The information in this document is correct to the best of the authors knowledge. It represents our commitment to our responsibilities and is undertaken in good faith. This document should be considered a guide to the safe use and handling of this product, but it is not an absolute authority.