

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

DUROTECH AR Sealer

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Classified as **Hazardous** according to criteria of ASCC¹ and **Dangerous Goods** according to the ADG² Code

UN NO.....:	1866	D.G. Class.:	3	Pack. Group...:	III
HAZCHEM:	3[Y]	SUB. RISK.:	None allocated	SUSDP.....:	5

PROPER SHIPPING NAME: RESIN SOLUTION

PRODUCT USE: Coating material.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No	Weight %
Acrylic polymer	Proprietary	30-60
Xylene, mixed isomers	1330-20-7	10-30
Solvent naphtha	64742-95-6	10-30

See Section 8, Exposure Controls / Personal Protection

3. HAZARDS IDENTIFICATION

Flammable
Harmful by inhalation and in contact with skin.
Irritating to respiratory system and skin.
Harmful: may cause lung damage if swallowed.

4. FIRST AID MEASURES

Eyes: Immediately flush with water for 15 minutes. Get medical attention if irritation develops or persists.
Skin: Take off all contaminated clothing. Wash contaminated area with soapy warm water. Get

medical attention if irritation develops or persists. Wash contaminated clothing before reuse.

Inhalation: Remove to fresh air. Apply resuscitation if victim is not breathing. Give oxygen if breathing is difficult. Get medical attention.

Ingestion: Consult a doctor immediately. DO NOT induce vomiting. Aspiration into lungs via vomiting can be fatal. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. Decision to induce vomiting should only be made by a physician.

5. FIRE FIGHTING MEASURES

Flash Point	27 °C (TCC) (for xylene)
Auto-ignition Temperature	Not specified
Lower Explosive Limit	1.1%
Upper Explosive Limit	7.7%

Suitable Extinguishing Media:

Foam, carbon dioxide, dry chemical. Water is not generally suitable. Water mist can be used to reduce rate of burning and for cooling containers.

Protective Equipment for Fire Fighting:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Fire Fighting Procedures:

Vapours may form explosive mixtures with air. Use water spray to cool exposed containers. Avoid spreading burning liquid with water spray. Stay up-wind and fight fire from a safe distance. Prevent spillage from entering drains or watercourses.

Fire and/or Explosion Hazards:

Vapours are heavier than air and may travel back to source of ignition (electrical equipment, sparks, pilot lights etc.). Containers exposed to heat may explode. Vapours may form explosive mixtures with air.

Decomposition Products:

Decomposes with fire to give off toxic and irritating fumes.

6. ACCIDENTAL RELEASE MEASURES

CAUTION: Flammable liquid. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Stay upwind and keep out of low areas. Shut off leaks, if possible without personal risks. Eliminate all sources of ignition. Vapours may travel long distances to source of ignition (electrical equipment, sparks, pilot lights etc.). Ensure adequate ventilation.

Wear appropriate personal protective equipment including gloves and safety glasses. Do not breathe vapour. Contain spill. Do not allow into drains or waterways.

Small Spills: Take precautions against static discharge. Use non-sparking tools. Take up with inert absorbent material (e.g. sand, dirt, or vermiculite). DO NOT use sawdust. Fill into marked, sealable containers for disposal. Dispose of empty containers in accordance with federal, state and local laws.

Large Spills: Notify Emergency Services and advise nature of spill and material hazard. Isolate area. Eliminate all sources of ignition. Vapours may travel long distances to source of ignition (electrical equipment, sparks, pilot lights etc.). Ensure adequate ventilation.

Additional Advice: Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Local authorities should be advised if significant spillages cannot be contained.

7. HANDLING AND STORAGE

Class 3 Flammable Liquid – Transport and store in accordance with Dangerous Goods requirements. Store away from combustible materials, excessive heat and sources of ignition. Store away from oxidizing agents, strong acids and alkalis. All equipment and containers must be earthed to avoid static discharge. Use in a well-ventilated area. Avoid breathing vapour and contact with skin and eyes. Wear gloves, long sleeved shirt, and eye protection. Keep containers tightly closed and store in a cool, well-ventilated area.

Handling – Avoid inhaling vapour and/or mists. Avoid contact with skin, eyes, and clothing. Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Handling Temperature: Ambient.

Storage - Must be stored in a well-ventilated area, away from sunlight, ignition sources and other sources of heat. Keep away from oxidizing agents. The vapour is heavier than air. Beware of accumulation in pits and confined spaces. Storage Temperature: Ambient.

Empty container warning – Do not reuse empty drums or containers. Do not cut, drill, grind or weld on or near empty containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Information

Component	NOHSC ¹			
	TWA		STEL	
	(ppm)	(mg/m ³)	(ppm)	(mg/m ³)
Xylene, mixed isomers	80	-	100	-
Solvent naptha	a	-	a	-

a = not listed

TWA = Time Weighted Average

STEL= Short term Exposure Limit

¹ National Occupational Health and Safety Commission (Australia)

Respiratory Protection

In case of vapours or dust, a respiratory protection program meeting Australian and New Zealand Standards AS/NZS-1716 and AS/NZS -1715 requirements must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the exposure limit listed in "Exposure Limit Information"

Eye Protection

Use chemical splash goggles (Australian and New Zealand Standards AS/NZS-1337) or approved equivalent. Eye protection worn must be compatible with respiratory protection system employed.

Hand Protection

Chemical resistant gloves and protective clothing as necessary to prevent skin contact.

Engineering Controls (Ventilation)

Use explosion-proof local exhaust ventilation sufficient to maintain exposure levels below exposure limit concentrations. Refer to Australian Standard AS-1668.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour	Colourless, viscous
State	Liquid
Odour Characteristic	Aromatic hydrocarbon
pH	Not applicable
Viscosity	Not specified
Specific Gravity (Water = 1)	0.90-0.98
Vapour Density (Air = 1)	>3.7
Vapour Pressure	5.2 kPa at 38°C (for xylene)
Melting Point	Not specified
Boiling Point	137-143°C (for xylene)
Solubility in Water	Insoluble
Flash Point	27°C (TCC) (for xylene)

10. STABILITY AND REACTIVITY

Considered stable under normal conditions of use and handling.

Hazardous decomposition products

Oxides of carbon. Decomposition by heat may give off toxic and irritating fumes.

Materials to avoid

Strong oxidising agents, halogens and molten sulphur.

Conditions to avoid

Heat, flame and other sources of ignition.

Hazardous Polymerisation

Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

For Xylene:

LD50 (oral, rat) = 5,000 mg/kg

Inhalation:

Harmful by inhalation. It will cause irritation of nose and throat; and cause headache, nausea, vomiting, dizziness, fatigue, lightheadedness, loss of appetite, reduced coordination, and unconsciousness.

Absorption by inhalation and/or repeated skin contact may result in possible injury to liver, kidney, blood, and/or bone marrow. Reports have associated repeated and prolonged occupational exposure to solvents with permanent damage to brain and nervous system. Intentional misuse by deliberately concentrating and inhaling vapours may be harmful or fatal.

Ingestion:

Ingestion may result in irritation of gastrointestinal tract, leading to abdominal pain, nausea and vomiting. Severe lung damage can occur if xylene is aspirated, during ingestion or vomiting.

Skin:

Harmful in contact with skin. Irritating to skin resulting in redness, dryness and itching.

Eye:

Vapour and liquid may cause irritation to the eye, resulting in reddening, swelling and possible corneal inflammation.

Chronic Effects:

Chronic absorption may result in injury to liver, kidneys, blood and/or bone marrow, with possible damage to brain and nervous system.

12. ECOLOGICAL INFORMATION

Harmful to aquatic organisms. Keep out of waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

Containers hazardous when emptied. Flammable vapour remains in containers until professionally cleaned. Do not cut or drill on or near empty containers. Dispose of empty containers in accordance with federal, state and local laws.

14. TRANSPORT INFORMATION

Classified as Class 3 Dangerous Goods according to the Australian Code For The Transport Of Dangerous Goods By Road And Rail (Seventh Edition). See Section 1.

15. REGULATORY INFORMATION

Workplace Labelling Requirements:

According to Criteria of the Australian Safety and Compensation Council

Risk Phrases

R10 Flammable.

- R20/21 Harmful by inhalation and in contact with skin.
R37/38 Irritating to respiratory system and skin.
R65 Harmful: may cause lung damage if swallowed.

Safety Phrases

- S16 Keep away from sources of ignition – no smoking.
S23 Do not breathe vapour.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S38 In case of insufficient ventilation, wear suitable respiratory equipment.
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label

16. OTHER INFORMATION

¹ Australian Safety and Compensation Council

² Australian Dangerous Goods Code – Seventh Edition

The advice and information contained herein is based on raw material supplier's information. Durotech Industries believe the information to be accurate and reliable as at the date supplied, but no representation, guarantee or warranty, expressed or implied, is made to the accuracy, reliability, or completeness of the advice and information. Durotech Industries urges persons receiving this advice and information to make their own determination as to the advice and information's suitability and completeness for their own particular situation.

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