

HEALTH AND SAFETY**CORROCOAT ARMAGEL****SHEET 1 OF 4****1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name: Corrocoat Armagel (Refer to Data Sheet for recommended use)
 Company Name: Corrocoat Limited
 Company Address: Forster Street, Leeds, West Yorkshire LS10 1PW
 Company Telephone: +44 (0) 113 2760760
 Company Fax: +44 (0) 113 2760700
 Emergency Telephone: +44 (0) 1652641124

LOCAL CONTACT:

Company Name: Corrocoat Engineering (Aust) Pty Ltd
 Company Address: 21 Sorbonne Cres, Canning Vale W A 6155
 Company Telephone: +61 (8) 9472 2500
 Company Fax: +61 (8) 9472 2525
 Australia Wide: 1 300 72 8887

2. CONTENTS AND HAZARDOUS COMPONENTS

Chemical Name: Unsaturated vinyl ester industrial coating: containing styrene monomer
 Inhibited and methyl methacrylate inhibited.
 Hazardous Components:

Name	Concentration	Cas N°	Risk Phrases
Styrene monomer	30 - 40%	100-42-5	R10, R20, R36/38
Methyl methacrylate	0 - 5%	80-62-6	R43, R36/37/38

3. HAZARD IDENTIFICATION

Specific hazard: Harmful Xn
 Physical hazard: Flammable
 Safety Phrase: S23 do not breathe fumes or vapour

4. FIRST AID

Eye Contact: Immediately wash out with clean water for at least 10 minutes. Seek medical assistance.
 Skin Contact: Wash with soap and water/suitable industrial hand cleaner. Remove contaminated clothing, launder before re-use.
 Inhalation: Remove patient to fresh air. Seek medical advice if difficulties persist.
 Ingestion: Do not induce vomiting, get medical assistance.

5. FIRE FIGHTING PRECAUTIONS

Extinguishing Media: Chemical foam, dry chemicals, water spray or carbon dioxide.
 Special Fire Fighting Procedures: Wear self-contained breathing apparatus.
 Unusual Fire Hazards: Styrene vapour is invisible, heavier than air and spreads along the ground.
 Hazchem Code: 3[Y]E

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Personal Precautions:	Wear suitable protective equipment.
Environmental Precautions:	Prevent discharge of product to sewers, surface or ground water and soil.
Recovery:	Extinguish ignition sources immediately. If considered necessary, apply chemical foam over the spillage to reduce the risk prior to clean up.
	Collect product and place in a sealable container. Absorb any residues using soil, sand or absorbent material. Seal in container. Quarantine all such product, clearly identify contents. See Section 13 for disposal regulations

7. HANDLING AND STORAGE

Prevention of Worker Exposure:	Adequate ventilation is required in the working area.
Fire Precautions:	Remove all ignition sources, no smoking, ensure spray pumps are earthed electrically prior to use. Close containers after use.
Suitable Storage:	In closed containers, away from direct sun or heat. Temperatures below 24°C are recommended to prevent shelf life problems. Store away from ignition sources. Close containers after use.
Incompatible Materials:	Organic peroxides and oxidising materials.

8. EXPOSURE LIMITS AND PERSONAL PROTECTION

Product Name:	Styrene Monomer
Exposure Limits:	8 Hours 100 ppm
(WEL)	10 Minutes 250 ppm

Product Name:	Methyl Methacrylate
Exposure Limits:	8 Hours 50 ppm
(WEL)	10 Minutes 100 ppm

NOTE: Exposure standards quoted are UK limits and may vary dependent upon location.

Effects of Overexposure of Product:	A moderate irritant on the skin. A severe irritant to the eyes. High concentrations are an irritant to the respiratory system, can induce drowsiness and eventually unconsciousness.
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PERSONNEL PROTECTIVE EQUIPMENT

Respiratory Protective Equipment:	Respiratory protection must be worn for all spray applications and in areas of poor ventilation. The use of air fed masks is recommended. Local exhaust ventilation should be used to keep exposure as far as is reasonable practicable below the WEL.
Hand Protection:	Solvent resistant gloves.
Eye Protection:	Face shield or safety eye protection.
Body Protection:	Cotton overalls. During spray application this may be supplemented with a paper suit or carbon impregnated suit. Full PVC chemical suits are not normally desired or required.

9. PHYSICAL/CHEMICAL PROPERTIES

Appearance:	Viscous liquid
Colour:	Light Grey
Odour:	Aromatic odour of styrene
Boiling Point:	Greater than 100°C
Flash Point:	28°C
Auto Ignition Temperature:	Not Known

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Explosion/Flammability Limits in Air: Not known for product values.

Values for styrene:

Lower Explosion Limit: 1.1% by volume (11,000 ppm)

Upper Explosion Limit: 6.1% by volume (61,000 ppm)

Values for Methyl Methacrylate:

Lower Explosion Limit: 2.1% by volume (21,000 ppm)

Upper Explosion Limit: 12.5% by volume (125,000 ppm)

Vapour Pressure:

4.7mm Hg at 20°C Styrene

28.0mm Hg at 20°C Methyl Methacrylate

Density:

1.22 gms/cm³

Solubility in Water:

Insoluble

Solubility in Organics:

Soluble in almost all aromatic and aliphatic solvents.

VOC Level (Base & Hardener):

47.0/litre

Percentage Volatile By Volume:

38.72% (volatile material monomeric in nature)

Percentage Solids:

Greater than 99% (solvent free)

10. STABILITY AND REACTIVITY

Stability: Stable under normal storage conditions

Conditions to Avoid: Direct sunlight, heat

Unstable and reacts when mixed with: Organic peroxides and oxidising agents

11. TOXICOLOGICAL INFORMATION (Not established for product but for raw material feed stocks)ACUTE INFORMATION

Ingestion: Oral toxicity low, LD50 for rats > 4000mg/kg. If aspirated may cause lung damage or in severe cases death due to chemical pneumonia.

Skin: Single prolonged exposure unlikely to absorb sufficient material through skin to be harmful. LD50 on rabbits > 2000mg/kg.

Inhalation: High vapour concentrations may be hazardous by single exposure.

IRRITANT:

Skin: Prolonged or repeated exposure is not likely to cause significant skin irritation.

Eyes: May cause moderate irritation to the cornea and pain. Vapours may irritate eyes and cause lachrymation (tears).

Inhalation: Excessive exposure may cause irritation to upper respiratory tract, extreme cases may cause anaesthetic and narcotic effects.

OTHER EFFECTS:

Repeated excessive exposures can cause liver, kidney and nervous system effects, respiratory and eye irritation.

12. ECOLOGICAL INFORMATION

Degradation: Biodegradation of the resin and glassflake is below detectable values. Styrene would be expected to pass closed bottle test for ready biodegradability within 28 days.

Aquatic Toxicity: Styrene: Acute LC50 for fathead minnows is greater than 46mg/l. Material is harmful to aquatic organisms (LC50/EC50/IC50 between 10 and 100mg/l).

Possible Environmental Impact: Harmful to aquatic organisms. Do not discharge into drains or the environment, dispose to certified waste disposal authority.

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Measures for Disposal: Dispose of all waste in accordance with local regulations. Normally this would involve incineration of liquid waste and controlled landfill for polymerised matter.

14. TRANSPORT INFORMATION

SEA (IMDG)
 Proper Shipping Name: Resin Solution
 UN Number: 1866
 Class: 3
 Packing Group: III
 Marine Pollutant: No

AIR (ICAO/IATA)
 Proper Shipping Name: Resin Solution
 UN Number: 1866
 Class: 3
 Packing Group: III

LAND
 Proper Transport Name: Resin Solution
 Class: 3

HAZCHEM CODE 3[Y]E

15. REGULATORY INFORMATION

EEC Regulations: EEC Labelling

Risk Phrases: R10 Flammable
 R20 Harmful by inhalation
 R36/37/38 Irritating to eyes, skin and respiratory system.

Safety Phrases: S23 Do not breath fumes/vapour

Symbols: Xn Harmful
 F Flammable

16. OTHER INFORMATION

Note: This information is offered in good faith, but without guarantee or liability. Further information regarding application and the product is available in the Corrocoat manual. Should further information be required consult Corrocoat Technical Services.

Reviewed 11/2010

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