SCOTT TECHNOLOGY PTY LTD
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1. IDENTIFICATION	
Product Name:	C114L UNSATURATED POLYESTER RESIN
Other Names:	Resin Solution
Manufacturer	Qualipoly Chemical Corporation 2, YEONG GONG 5TH RD.,YEONG AN, KAOHSIUNG HSIEN,(828),TAIWAN,R.O.C TEL：886-7-6236199 FAX：886-7-6241972
Supplier:	Scott Technology Pty Ltd
ABN:	57 939 912 650
Street Address:	1 / 28 Lee Holm Rd St Marys NSW 2760
Telephone:	(02) 9623 6444
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Emergency Phone:	Chem Call Australia 1800 127 406

2. HAZARDS IDENTIFICATION

Hazardous Nature

Classified as a hazardous substance in accordance with the criteria of Safe Work Australia (GHS)

Classified as dangerous goods in accordance with the Australian Code for the transport of Dangerous Goods by Road and Rail (ADG)

GHS Hazardous Classification

Flammable Liquids: 3; Acute Toxicity - Oral: 3; Serious Eye Damage/Irritation: 2A; Specific Target Organ Toxicity (Central Nervous System): 3; Acute Aquatic Toxicant: 2

GHS Pictograms

Signal Word

WARNING

Hazard Statements

H226: Flammable liquid and vapour
H332: Harmful if inhaled
H320: Causes eye irritation
H335: May cause respiratory irritation
H411: Toxic to aquatic life with long lasting effects
H226: Flammable liquid and vapour

Precautionary Statements

P102: Keep out of reach of children.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P262: Do not get in eyes, on skin, or on clothing.
P284: [In case of inadequate ventilation] wear respiratory protection.
P273: Avoid release to the environment.

3. COMPOSITE: Information on Ingredients

Chemical Ingredient	CAS No	Proportion (%v/v)
Unsaturated polyester resin (non-stabilised)	various	50 - 70
Styrene	100-42-5	30 - 50

4. FIRST AID MEASURES

For advice, contact Poisons Information Centre (Ph Aus: 13 1126) or a doctor

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 is stopped. Keep at rest. Seek immediate medical attention.

First Aid facilities: Provide eye baths and safety showers

Medical Attention:

Treat according to symptoms. Avoid gastric lavage: risk of aspiration of product to the lungs with the potential to cause chemical pneumonitis.

5. FIRE FIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress, providing firefighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable Extinguishing Media:

Water spray, foam, dry chemicals, carbon dioxide or any Class B type extinguishing agent. Water may be ineffective since it may not cool the styrene below its flash point.

Hazards from combustion products:

Carbon dioxide and carbon monoxide

Precaution for fire fighters and special protective equipment:

Full protective clothing and self-contained breathing apparatus

Hazchem Code: **3Y**

6. ACCIDENTIAL RELEASE MEASURES

Emergency Procedures

Prevent fluid from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours from building up in confined areas. Ensure that drain valves are closed at all times. Clean up and report spills immediately.

Methods and materials for containment and cleaning up:

- Eliminate sources of ignition.
- Warn occupants of downwind areas of possible fire and explosion hazard.
- Prevent liquid from entering sewers, watercourses, or low-lying areas.
- Keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.

- Take measures to minimise the effect on the ground water.
- Contain the spilled liquid with sand or earth.
- Recover by pumping – use explosion proof pump or hand pump – or with a suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations

7. HANDLING AND STORAGE

Precautions for Safe Handling:

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. Material will accumulate static charge. Use grounding leads to avoid discharge (electrical spark).

Avoid eye and prolonged skin contact. Use of a barrier cream is recommended. Avoid inhaling. The promoter and catalyst should always be mixed into the product separately and never mixed together.

Conditions for Safe Storage (including any incompatibilities):

Store in a cool, dry place away from direct sunlight. Do not pressurise, cut, heat or weld containers - residual vapours are flammable. This product is flammable and will fuel a fire in progress. The store should be well ventilated and flame proof.

Incompatible materials

Natural Rubber, Butyl Rubber, EPDM, Polystyrene, copper

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

National Exposure Standards

The time weighted average concentration (TWA) for this product is: 213 mg/m3 (50pp), which means the highest allowable exposure concentration in an eight-hour day for a five-day working week. The short-term exposure limit (STEL) is: 426 mg/m3 (100ppm), which is the maximum allowable exposure concentration at any time.

Biological Limit Values:

Not Available

Engineering Controls: (Ventilation)

The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment.

Personal Protective Equipment:

Eye and Face Protection:

Always use safety glasses or a face shield when handling this product.

Skin Protection:

Always wear long sleeves and long trousers or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended that chemical resistant gloves (e.g. PVC) be worn when handling this product.

Respiratory Protection:

Where concentrations in air may exceed the limits described in the National Exposure Standards, it is recommended to use a half-face filter mask to protect from overexposure by inhalation. A type “A” filter material is considered suitable for this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY	UNITS	TYPICAL VALUE
Appearance		
Form		Liquid
Colour		Pale yellow or purple pink.
Odour		Styrene
pH		NA
Change in Condition		
Melting Point / Range	°C	
Boiling Point / Range	°C	>145
Flash Point	°C	31 (closed cup)

Flammability	°C	
Solid	°C	
Gas	°C	
Explosive limits (LEL-UEL)	%	1.1-6.1
Auto Ignite temperature	°C	490
Decomposition Temperature	°C	
Vapour Pressure @ 20°C	kPa	(styrene) 0.60
Vapour Density @ 20°C	kPa	
Relative Density @ 15°C	g/ml	1.10-1.13
Solubility in water	% w/w	Partially miscible with water
Percent Volatiles	%	>30
Viscosity @ 20°C	cSt	NA

10. STABILITY AND REACTIVITY

Reactivity:

Chemical Stability:

May undergo polymerisation

Possible Hazardous Reactions:

Oxidizing agents, strong acids.

Conditions to avoid:

Sources of heat and ignition, open flames

Incompatible Materials:

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide and other organic complexes on incomplete burning or oxidation.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Information on likely routes of exposure

Skin Corrosion / Irritation:

This product is irritating to the skin and defatting and drying will occur on exposure to product vapours.

Eye Damage / Irritation:

Contact with this product risks serious damage to eyes and surrounding tissue. Contact with eyes risks overexposure to the product. Vapour may be irritating to eyes and eye tissue.

Ingestion:

Small amounts of liquid aspirated into the lungs during ingestion, or from vomiting, may cause chemical pneumonitis, or pulmonary oedema. Ingesting any amount of this product will result in headaches, nausea, dizziness, and tracheal burning.

Respiratory / Inhalation:

This product is irritating to the respiratory tract. Exposure to large concentrations over an extended period of time will result in muscle weakness, tingling in hands and feet, blurred vision, headaches, nausea, loss of appetite, hallucinations, and possible loss of consciousness.

Toxicological Information

Styrene	Oral LD_{50}:: 5000 mg/kg (rat)
Styrene	Dermal TC_{Lo}:: (Inhal LC_{50}): rat - 12 g/m^3/4hr

12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Fish Toxicity (rainbow trout, goldfish, bluegill):	LC_{50}(96hr): Styrene (Sheepshead minnow): 9100 µg/L
Daphnia Magna EC_{50} (24 hr):	Styrene: 4700 µg/L

Blue-green algae (Toxicity threshold 7-8 days):	Styrene: 67000 µg/L
Green algae (Toxicity threshold 7-8 days):	Styrene: EC_{50}: 560 µg/L

Mobility

if product enters soil, it will be highly mobile and may contaminate groundwater

Persistence/ degradability

This product is not considered to comply with international biodegradability criteria.

13. DISPOSAL CONSIDERATIONS

Disposal Methods:

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain fumes and vapours that are flammable and harmful. Ensure that empty packaging is allowed to dry.

Special Considerations for Incineration or Land Fill;

This product is NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product must be disposed as chemical waste in accordance with the local authority.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT		MARINE TRANSPORT		AIR TRANSPORT	
UN No.	1866	**UN No.**	1866	**UN No.**	1866
Proper Shipping Name	Resin Solution, Flammable (non stabilised)	**Proper Shipping Name**	Resin Solution, Flammable (non stabilised	**Proper Shipping Name**	Resin Solution, Flammable (non stabilised
ADG Hazard Class	3	**ADG Hazard Class**	3	**ADG Hazard Class**	3
Packing Group	III	**Packing Group**	III	**Packing Group**	III
Hazchem Code	•3Y	**Hazchem Code**	•3Y	**Hazchem Code**	•3Y

15. REGULATORY INFORMATION

Australian Regulators:

ADG:

GHS:

SUSMP:

Poison Schedule No.5

NICNAS:

International Inventories:

AICS: Australian Inventory of Chemical Substances	Listed or Exempt
NICNAS Report:	
NZIoC: New Zealand Inventory of Chemicals	Listed or Exempt
PICCS: (Philippines)	Listed or Exempt

16. OTHER INFORMATION

Revision Date: 27/02/2019

References:

https://chem.nlm.nih.gov/chemidplus

Supplier SDS

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product.