

# Material Safety Data Sheet

## H60FY Techniglu CA Fast Hardener - Yellow

Version 1.1



### Section 1: Identification of the Material and the Supplier

Trade Name H60FY Techniglu CA Fast Hardener - Yellow

Product Code H60FY

Recommended Use Used in conjunction with epoxy resin for adhesive and composite applications

Company ATL Composites

Address 12-14 Production Ave Ernest 4214

Telephone +61 7 5563 1222 (Monday-Friday 8:30am-5:00pm)

Emergency Telephone Number +61 7 5563 1222 (Monday-Friday 8:30am-5:00pm)

Revision Date 3<sup>rd</sup> June 2014

### Section 2: Hazards Identification

Hazard Classification: HAZARDOUS SUBSTANCE : DANGEROUS GOODS

#### Risk Phrases

R21/22 Harmful in contact with the skin and if swallowed

R34 Causes burns

R43 May cause sensitisation by skin contact

R51/53 Toxic to aquatic organisms; May cause long term adverse effects in the aquatic environment.

R68 Possible risk of irreversible effects

#### Safety Phrases

R24/25 Avoid contact with skin and eyes

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

R28 After contact with skin, wash immediately with plenty of soap-suds

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

S45 In case of accident or if you feel unwell, seek medical advice immediately

S61 Avoid release into the environment

### Section 3: Composition / Information on Ingredients

Chemical Name	CAS No.	Weight %
Polymer of C18 unsaturated fatty acid dimers with TETA and TOFA	68082-29-1	>60
Polyamine	-	10 -<30
TETA, reaction products with phenol and formaldehyde	32610-77-8	<20

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Phenol	108-95-2	<5
Triethylenetetramine	112-24-3	<10
Other ingredients determined not to be hazardous	-	To 100

### Section 4: First Aid Measures

General Advice	Seek medical advice. If breathing has stopped or is laboured give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped begin cardiopulmonary resuscitation immediately.
Inhalation	Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have qualified person give oxygen through a face mask if breathing is difficult. If symptoms develop and persist seek medical attention.
Ingestion	DO NOT INDUCE VOMITING. Immediately wash out mouth with water. If symptoms persist seek medical attention.
Skin	Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical attention.
Eye	If contact with the eye(s) occurs, wash with copious amounts of water holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If symptoms persist seek medical attention.
First Aid Facilities	Eye wash and normal wash room facilities.
Advice to Doctor	Treat symptomatically
Other Information	For advice, contact a Poisons Information Center (Phone e.g Australia 131 126)

### Section 5: Fire Fighting Measures

Suitable extinguishing media	Use carbon dioxide, dry chemical or foam.
Hazards from Combustion Products	Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide.
Precautions in connection with Fire	Full protective clothing and self-contained breathing apparatus. Operated in a positive pressure mode. Water spray may be used to keep fire exposed containers cool.

### Section 6: Accidental Release Measures

Emergency	Wear appropriate personal protective equipment and clothing to
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procedures minimise exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unnecessary personnel. If possible contain the spill. Place inert absorbent material onto spillage. Use clean non-sparking tools to collect the material and place in a suitable labelled container. Do not dilute material but contain. Dispose of waste according to federal, Environmental Protection Authority and state regulations. If the spillage enters the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

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### Section 7: Handling and Storage

#### Storage

Precautions for Safe Handling Do not get into eyes, on skin or on clothing. Use only with adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid prolonged or repeated contact with skin, eyes and clothing. Wash thoroughly after handling. DANGER. Corrosive to the eyes, corrosive to the skin. Maybe harmful if swallowed. Causes respiratory tract irritation. May cause skin sensitisation.

Containers, even those that have been emptied, can contain hazardous product residues. Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Launder contaminated clothing before reuse. Contaminated leather articles, including shoes cannot be decontaminated and should be destroyed to prevent reuse.

Conditions for Safe Storage Store in a cool, dry, well-ventilated area out of direct sunlight. Keep containers closed when not in use.

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### Section 8: Exposure Controls / Personal Protection

National Exposure Standards No exposure standards have been established for this material by the Australian National Occupational Health and Safety Commission (NOHSC) or the Occupational Safety and Health Service (OHS) of the New Zealand Department of Labour. However, exposure standards for ingredients are stated below:

Australian National Occupational Health and Safety Commission (NOHSC) exposure standards:

Biological Limit Values No biological limit allocated.

Engineering Controls Provide sufficient ventilation to keep airborne levels below the exposure limit. Where vapours or mist are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system is required. Provide readily accessible eye wash stations and safety showers.

Respiratory Protection Where ventilation is inadequate the use of an Air Purifying Respirator with a replaceable organic vapour filter complying with AS/NZS 1715 and AS/NZS 1716 is recommended.

Eye Protection Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or

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engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 – Eye protectors for Industrial Applications.

Hand Protection	Wear gloves of impervious material such as impervious PVC or rubber gloves. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1 Occupational protection gloves – Selection use and maintenance.
Body Protection	Suitable work wear should be worn to protect personal clothing. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial Clothing.

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### Section 9: Physical and Chemical Properties

Form	Gel
Colour	Yellow
Odour	Amine Odour
pH	Not Available
Melting Point	Not Determined
Flash Point	>101°C
Boiling Point	>100°C
Vapour Density	Not Available
Vapour Pressure	0.13mmHg
Density	0.98 to 1.05
Auto-Ignition Temperature	Not Available
Flammable Limits – Lower	Not Available
Flammable Limits – Upper	Not Available

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### Section 10: Stability and Reactivity

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Extremes of temperature and direct sunlight. Exposure to water vapour.
Incompatible Materials	Strong oxidising agents.
Hazardous	Oxides of Nitrogen

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Decomposition Products Carbon Monoxide

Hazardous Polymerisation Reacts violently with strong oxidising agents

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### Section 11: Toxicological Information

Acute oral toxicity LD50 Oral Rat 2,200 mg/kg

Acute dermal Toxicity Phenol LD50 Dermal Rabbit 630 mg/kg

Inhalation Irritating to the respiratory system. Inhalation of product vapours will cause irritation of the nose, throat and respiratory system. Inhalation of high concentrations of vapour can have effects on the central nervous system (CNS) resulting in headaches, dizziness, unco-ordination, nausea, loss of appetite and possibly loss of consciousness.

Ingestion Ingestion of this product will irritate the gastric tract causing nausea and vomiting.

Skin Irritating to skin resulting in redness and itching. This product may cause sensitisation in some individuals.

Eyes Irritating to eyes. On eye contact this product will cause tearing, stinging, blurred vision and redness.

Chronic Effects Results from a battery of short term genotoxicity tests on this material or its components indicate mutagenic activity. Adsorption of phenolic solutions through the skin may be very rapid and can cause damage to the kidneys, liver, pancreas and spleen, and edema of the lungs.

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### Section 12: Ecological Information

Ecotoxicity No ecological data available.

Persistence / Degradability Not available.

Mobility Not available.

Environmental Protection Do not allow product to enter drains, waterways or sewers.

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### Section 13: Disposal Considerations

Disposal Considerations Dispose of waste according to federal, EPA and state regulations.

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