

# Material Safety Data Sheet

## H60F Techniglue-CA Fast Hardener

Version 1.1



### Section 1: Identification of the Substance or Mixture and of the Supplier

Trade Name : H60F Techniglue-CA Fast Hardener.

Product Code : H60F

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 : 19<sup>th</sup> April 2013

### Section 2: Hazards Identification

HAZARDOUS SUBSTANCES CLASSIFICATION: Classified as hazardous to health according to the criteria of the National Occupational Health and Safety Commission, Australia

#### Hazard Symbol

Xn	Harmful
C	Corrosive

#### Risk Phrases

R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R34	Causes burns.
R43	May cause sensitisation by skin contact.
R68	Possible risk of irreversible effects

#### Safety Phrases

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.
S28	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 (show the label where possible)
S61	Avoid release to the environment.

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### Section 3: Composition/Information on Ingredients

Chemical Name	CAS No.	Weight %
Polymer of c-18 unsat'd fatty acid dimers w/ teta & tofa	68082-29-1	>60
Polyamine	-	10 - <30
Teta, reaction products with phenol / formaldehyde	32610-77-8	<20
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 labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.
Eye contact	:	Rinse immediately with plenty of water for at least 15 minutes.
Skin contact	:	Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Take off contaminated clothing and shoes immediately.
NOTE TO PHYSICIANS:		Application of corticosteroid cream has been effective in treating skin irritation.
Ingestion	:	Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victim's head to the side.
Inhalation	:	Move to fresh air.

### Section 5: Fire Fighting Measures

Suitable extinguishing media	:	Alcohol-resistant foam. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Dry sand. Limestone powder.
Specific hazards	:	May generate ammonia gas. May generate toxic nitrogen oxide gases. Use of water may result in the formation of very toxic aqueous solutions. Do not allow run-off from fire fighting to enter drains or water courses. Incomplete combustion may form carbon monoxide. Downwind personnel must be evacuated. Burning produces obnoxious and toxic fumes.
Special protective equipment for fire-fighters	:	Avoid contact with the skin. Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.

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**Section 6: Accidental Release Measures**

Personal precautions	Use self-contained breathing apparatus and chemically protective clothing. Wear suitable protective clothing, gloves and eye/face protection. Evacuate personnel to safe areas.
Environmental precautions :	Construct a dike to prevent spreading.
Methods for cleaning up :	Approach suspected leak areas with caution. Place in appropriate chemical waste container.
Additional advice :	If possible, stop flow of product.

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**Section 7: Handling and Storage**

**Handling**

Advice on safe handling :	Do not get in 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. May be corrosive to the skin. Harmful if absorbed through the skin. May be harmful if swallowed. Causes respiratory tract irritation. May cause skin sensitization. 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.
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**Storage**

Requirements for storage areas and containers :	Keep containers closed when not in use.
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**Section 8: Exposure Controls / Personal Protection**

Workplace exposure standards: No exposure standards have been established for product components.

Engineering measures	Provide readily accessible eye wash stations and safety showers. Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.
Personal protective equipment:	
Respiratory protection :	Not required for properly ventilated areas.
Hand protection :	Neoprene gloves. PVC disposable gloves Butyl-rubber Nitrile rubber. Impervious gloves. The breakthrough time of the selected glove(s) must be greater than the intended use period.
Eye protection :	Chemical resistant goggles must be worn.
Skin and body protection :	Long sleeve shirts and trousers without cuffs. Impervious clothing.

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Environmental exposure  
Controls : Construct a dike to prevent spreading.  
Special instructions for  
protection and hygiene: Discard contaminated leather articles. Provide readily  
accessible eye wash  
stations and safety showers. Wash at the end of each  
workshift and before eating, smoking or using the toilet.  
Remove contaminated clothing. Drench  
affected area with water for at least 15 minutes

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### Section 9: Physical and Chemical Properties

Form : Gel  
Colour : Amber  
Odour : Amine odour  
pH : Not available  
Melting Point : Not Determined  
Boiling Point : >100°C  
Flash Point : >101°C  
Vapour Pressure : 0.13mmHg  
Density : 0.98 to 1.05  
Solubility in water : Moderate

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### Section 10: Stability and Reactivity

Conditions to avoid : Extremes of temperature and direct sunlight.  
Exposure to water vapour.  
Materials to avoid : Strong oxidizing agents.  
Strong acids.  
Hazardous decomposition  
Products : Oxides of nitrogen  
Carbon monoxide  
Hazardous reactions : Stable.  
Reacts violently with strong oxidising agents.

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### Section 11: Toxicological Information

#### Acute Health Hazard

Ingestion : LD50 : 2,200 mg/kg  
Species : Rat.  
Inhalation : LC50 (1 h) : > 20 mg/l  
Species : Rat.  
Method Estimated.  
ISO TC58 (1 h) : 0 ppm  
Method : Estimated.  
Skin. : No data is available on the product itself.

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Skin. - Components  
Phenol LD50 : 630 mg/kg Species : Rabbit.  
Eye irritation/corrosion : Severe eye irritation.  
Acute dermal irritation/corrosion :  
Sensitization : Moderate skin irritation.  
Chronic Health Hazard : May cause sensitization by skin contact. Sensitization has occurred in laboratory animals after repeated exposures.

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 death. Lesser exposures can cause damage to the kidneys, liver, pancreas and spleen, and edema of the lungs. Chronic exposures can cause death from liver and kidney damage.

### Section 12: Ecological Information

Aquatic toxicity : No data is available on the product itself.  
Toxicity to other organisms : No data available.  
Persistence and degradability  
Mobility : No data available.  
Bioaccumulation : No data is available on the product itself.

### Section 13: Disposal Considerations

Waste from residues / unused  
Products : Contact supplier if guidance is required.  
Contaminated packaging : Dispose of container and unused contents in accordance with federal, state, and local requirements.

### Section 14: Transport Information

ROAD & RAIL TRANSPORT:

**ADG U.N. Number** UN2735  
**ADG Proper Shipping Name** AMINES, LIQUID, CORROSIVE, N.O.S.  
**ADG DG Class** 8  
**ADG Hazchem Code** 2X  
**ADG Packing Group** II

#### Other Information

IATA  
Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S.  
Class : 8  
UN/ID No. : UN2735  
Packing group : II

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ATL composites

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IMDG	Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. Class : 8 UN/ID No. : UN2735 Packing group : II
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### Section 15: Regulatory Information

The principal components and additives of this product are included in the Australian Inventory of Chemical Substances (AICS) or comply with the requirements of the Industrial Chemicals (Notification and Assessment) Act 1989.

Poisons Schedule	5
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Hazard Category	HAZARDOUS SUBSTANCES CLASSIFICATION: Corrosive. Sensitiser.
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Packaging & Labelling	Product is labelled in accordance with the Code of Practice for Labelling Workplace Substances.
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### Section 16: Other Information

#### Contact

#### Person/Point

PRODUCT INFORMATION MANAGER:	(+61) 7 5563 1222 12-14 Production Av Ernest
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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.