

# Safety Data Sheet

## H60S TECHNIGLUE SLOW HARDENER

Version 5



ATL composites

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

Trade Name	H60S TECHNIGLUE SLOW HARDENER
Product Code	H60S
Recommended Use	Curing agent for epoxy resin
Company	ATL Composites
Address	12-14 Production Av, Molendinar 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	5 <sup>th</sup> September 2024

### Section 2: Hazards Identification

GHS Classification:	Skin Corrosion (Category 1) Skin Sensitisation (Category 1) Acute Toxicity – Oral (Category 5) Acute Aquatic Toxicity (Category 1) Chronic Aquatic Toxicity (Category 1)
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### GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

### Hazard statement(s)

H302	Harmful if swallowed.
H314	Causes severe burns and eye damage.
H317	May cause allergic skin irritation.
H333	May be harmful if inhaled
H410	Very toxic to aquatic life with long lasting effects.

### Precautionary statement(s)

P261	Avoid breathing dust / fumes / gas / mist / vapours / spray.
P264	Wash skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves / eye protection / face protection.

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P273

Avoid release to the environment

### Response

P302 + P352

IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310

Immediately call a POISON CENTER or doctor / physician.

P321

Specific treatment (see supplement first aid instructions on this label).

P333 + P313

If skin irritation or rash occurs: Get medical advice / attention.

P362

Take off contaminated clothing and wash before reuse.

### Disposal

P501

Dispose of contents / container to an approved waste disposal plant

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### Section 3: Composition / Information on Ingredients

Chemical Name	CAS No.	Weight %
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	68953-36-6	30 - 60
Triethylenetetramine	112-24-3	<10
Diethylenetriamine	111-40-0	>3
Polyoxyalkyleneamine	9046-10-0	<10
Other ingredients determined not to be hazardous	-	To 100

CHEMICAL FAMILY: Amidoamine

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### 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.

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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 unto 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)

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### 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.

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### Section 6: Accidental Release Measures

Emergency procedures	Wear appropriate personal protective equipment and clothing to 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-sparkling 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.
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Conditions for Safe Storage      Store in a cool, dry, well-ventilated area out of direct sunlight. Keep containers closed when not in use.

### 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 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.

### Section 9: Physical and Chemical Properties

Form	Gel
Colour	Amber
Odour	Amine Odour
pH	Alkaline
Melting Point	Not Determined

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Flash Point	>101°C
Boiling Point	>100°C
Vapour Density	Not Available
Vapour Pressure	0.13 mmHg
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. N-Nitrosamines, many of which are known to be potential carcinogens, maybe formed when the product comes into contact with nitrous acid, nitriles or atmospheres with high nitrous oxide concentrations. Organic acids (i.e acetic acid, citric acid etc). Mineral acids. Sodium hypochlorite. Product slowly corrodes copper, aluminium, zinc and galvanised surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Oxidising agent
Hazardous Decomposition Products	Nitric acid Ammonia Nitrogen oxides (NOx) Nitrogen oxide can react with water vapours to form corrosive nitric acid. Carbon Monoxide Carbon Dioxide Nitrosamine

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### Section 11: Toxicological Information

Acute oral toxicity	LD50 Oral Rat >3,000 mg/kg Method : ATE <sub>MIX</sub>
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Acute dermal Toxicity	LD50 Dermal Rabbit >5,000 mg/kg Method : ATE <sub>MIX</sub>
Acute Inhalation Toxicity	LD50 Inhalation Rat 2.38mg/L Method : ATE <sub>MIX</sub>
Inhalation	Inhalation of aerosol may cause irritation to the upper respiratory tract. Can cause severe eye, skin, and respiratory tract burns.
Ingestion	If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.
Skin	Causes skin burns. This product may cause sensitisation in some individuals.
Eyes	Causes eye burns. May cause blindness.
Chronic Effects	Prolonged or repeated contact may result in irritation and/or allergic contact dermatitis.

### Chronic toxicity or effects from long term exposures

Carcinogenicity	No data available
Reproductive toxicity	No data available on the product itself
Germ cell mutagenicity	This product or a component was mutagenic in a bacterial assay. This product or a component did not cause chromosome damage in an in vivo micronucleus assay.
Specific target organ systemic toxicity (single exposure)	Eyes, Skin
Specific target organ systemic toxicity (repeated exposure)	No data available
Aspiration hazard	No data available

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### Section 12: Ecological Information

Ecotoxicity	No ecological data available on the product itself.
Persistance / 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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### Section 14: Transport Information

ADG U.N Number	UN/ID No : UN2735 Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S. (Polyamidoamine, Aliphatic Amine) Class : 8 Tunnel Code : (E) Packing Group : III ADR/RID Hazard ID no : 80 Marine Pollutant : Yes
IATA	UN/ID No : UN2735 Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S. (Polyamidoamine, Aliphatic Amine) Class : 8 Packing Group : III Marine Pollutant : Yes ERG : 8L
IMDG	UN/ID No : UN2735 Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S. (Polyamidoamine, Aliphatic Amine) Class : 8 Packing Group : III Marine Pollutant : Yes EmS : F-A, S-B
RID / ADR	UN/ID No : UN2735 Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S. (Polyamidoamine, Aliphatic Amine) Class : 8 Sub Risk : 6.1 Packing Group : III EAC : 2X HIN : 86 Marine Pollutant : Yes

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### Section 15: Regulatory Information

Regulatory Information	Australia: Classified as hazardous according to criteria of National Occupational Health and Safety Commission (NOHSC).
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### Section 16: Other Information

Contact Person/Point	PRODUCT INFORMATION MANAGER: (+61) 7 5563 1222 12-14 Production Avenue, Molendinar, Queensland, Australia
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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.