

# Safety Data Sheet

## H205 WEST SYSTEM FAST HARDENER

Version 4



ATL composites

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

Trade Name	H205 WEST SYSTEM FAST HARDENER
Product Code	H205
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	16 <sup>th</sup> March 2021

### Section 2: Hazards Identification

GHS Classification:	Acute Toxicity, Dermal (Category 4) Acute Toxicity, Inhalation (Category 3) Skin Corrosion (Category 1) Serious Eye Damage (Category 1) Respiratory Sensitisation (Category 1) Germ Cell Mutagenicity (Category 2) Specific Target Organ Toxicity (Category 2) Chronic Aquatic Toxicity (Category 2)
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### GHS Label elements, including precautionary statements

Pictogram



Signal word      Danger

Hazard statement(s)

H302	Harmful if swallow
H312	Harmful in contact with skin
H331	Toxic if inhaled
H314	Causes severe burns and eye damage.
H317	May cause allergic skin irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H341	Suspected of causing genetic defects
H411	Very toxic to aquatic life with long lasting effects.

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### Precautionary statement(s)

P201	Obtain special instruction before use
P202	Do not handle until all safety precautions have been read and understood
P261	Avoid breathing dust / fumes / gas / mist / vapours / spray/
P264	Wash skin thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves / eye protection / face protection.
P273	Avoid release to the environment

### Response

P301 + P330 + P331	If SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302 + P303 + P352 + P361 + P353	If ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse or wash with soap and water (or shower) .
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304 + P340	IF INHALE: Remove person to fresh air and keep comfortable for breathing
P333 + P313	If skin irritation or rash occurs: Get medical advice / attention.
P310	Immediately call a POISON CENTER or doctor for advice
P391	Collect spillage
P405	Store locked up

### 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 %
TETA, reaction products with phenol / formaldehyde	32610-77-8	40-70
Polyethylenepolyamines	68131-73-7	10-30
Triethylenetetramine	112-24-3	5-20
Triethylenetetramine, reaction product with propylene oxide	26950-63-0	1-10
Tetraethylenepentamine	112-57-2	1-10
Phenol	108-95-2	1-10

### Section 4: First Aid Measures

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

### Section 8: Exposure Controls / Personal Protection

National Exposure Standards	<p>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:</p> <p>Australian National Occupational Health and Safety Commission (NOHSC) exposure standards:</p>
Biological Limit Values	<p>No biological limit allocated.</p>
Engineering Controls	<p>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.</p> <p>Provide readily accessible eye wash stations and safety showers.</p>
Respiratory Protection	<p>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.</p>
Eye Protection	<p>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.</p>
Hand Protection	<p>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.</p>

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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	Low Viscosity Liquid
Colour	Amber
Odour	Ammonia-like
pH	10.3
Melting Point	Not Determined
Flash Point	93°C
Boiling Point	>204°C
Vapour Density	Not Available
Vapour Pressure	<10.34 mmHg @ 21°C
Density	1.00 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

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Hazardous	Nitric acid
Decomposition	Ammonia
Products	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 >3,990 mg/kg Method : Estimated
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	Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin, spasm, inflammation and edema, burning sensation, cough, wheezing, laryngitis, shortness of breath.

### 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	Toxicity to fish LC50 – <i>Poecilia reticulata</i> (guppy) 420mg/l 96hr Toxicity to daphnia and other aquatic invertebrates EC50 <i>Daphnia magna</i> (Water Flea) 24mg/l 48h
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Toxicity to algae IC50 Pseudokirchneriella subcapitata \*(Green algae)  
2mg/l 72h

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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### Section 14: Transport Information

ADG UN/ID No : UN2320  
Proper shipping name : TETRAETHYLENE-PENTAMINE  
Class : 8  
Tunnel Code : (E)  
Packing Group : III  
ADR/RID Hazard ID no : 80  
Marine Pollutant : Yes

IATA UN/ID No : UN2320  
Proper shipping name : TETRAETHYLENEPENTAMINE  
Class : 8  
Packing Group : III  
Marine Pollutant : Yes  
ERG : 8L

IMDG UN/ID No : UN2320  
Proper shipping name : TETRAETHYLENEPENTAMINE  
Class : 8  
Packing Group : III  
Marine Pollutant : Yes  
EmS : F-A, S-B

RID / ADR UN/ID No : UN2320  
Proper shipping name : TETRAETHYLENEPENTAMINE  
Class : 8  
Packing Group : III  
EAC : 2X  
HIN : 80  
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, Ernest, Queensland, Australia

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.