

Safety Data Sheet

H206 WEST SYSTEM SLOW HARDENER

Version 3



ATL composites

Section 1: Identification of the Material and the Supplier

Trade Name	H206 WEST SYSTEM SLOW HARDENER
Product Code	H206
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 th March 2021

Section 2: Hazards Identification

GHS Classification:	Skin Corrosion (Category 1) Serious Eye Damage (Category 1) Acute Toxicity – Inhalation (Category 4) Respiratory Sensitisation (Category 1) Specific Target Organ Toxicity Single Exposure (Category 3 Respiration) 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 an allergic skin reaction
H332	Harmful if inhaled
H335	May cause respiratory irritation
H411	Toxic to aquatic life with long lasting effects

Precautionary statement(s)

P280	Wear protective gloves / eye protection / face protection
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Safety Data Sheet

H206 WEST SYSTEM SLOW HARDENER

Version 3



ATL composites

P271	Use only outdoors or in a well ventilated area
P272	Contaminated work clothing should not be allowed out of the work place
P273	Avoid release into the environment
P260	Do not breathe dust or mist
P270	Do not eat, drink or smoke when using this product
P264	Wash with plenty of water and soap thoroughly after handling

Response

P301 + P330 + P331	IF SWALLOWED: Rinse mouth. DO NOT induce vomiting
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303 + P361 + P353	IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position of comfort for breathing.
P333 + P313	IF skin irritation or rash occurs: Get medical attention
P310	Immediately call a POISON CENTER or doctor / physician.
P362 + P364	Take off contaminated clothing and wash it before reuse or discard
P391	Collect Spillage

Storage

P403 + P233	Store in a well-ventilated area. Keep container tightly close
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 %
O,O'-BIS(2-AMINOPROPYL)POLYPROPYLENE GLYCOL	9046-10-0	30 – 40
Polymer of epichlorohydrin bisphenol A and DETA	31326-29-1	20 – 30
Diethylenetriamine	11-40-0	>20
Tetraethylenepentamine	112-57-2	>20
Reaction products of TETA and propylene oxide	26950-63-0	<10
Triethylenetetramine	112-24-3	<10

Chemical family: Polyether, amine

Safety Data Sheet

H206 WEST SYSTEM SLOW HARDENER

Version 3



ATL composites

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 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)

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 oxides and nitrogen oxides.
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 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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Safety Data Sheet

H206 WEST SYSTEM SLOW HARDENER

Version 3



ATL composites

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. 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.

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.

Safety Data Sheet

H206 WEST SYSTEM SLOW HARDENER

Version 3



ATL composites

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	Low Viscosity Liquid
Colour	Light Yellow
Odour	Not Available
pH	11.7 AT 50g/l
Melting Point	Not Determined
Flash Point	128°C – Closed Cup – ISO 2719
Boiling Point	232°C
Vapour Density	Not Available
Vapour Pressure	<1 hPa @ 100°C
Density	1.00 to 1.05
Auto-Ignition Temperature	Not Available
Flammable Limits – Lower	Not Available
Flammable Limits – Upper	Not Available

Section 10: Stability and Reactivity

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Extremes of temperature and direct sunlight.
Incompatible Materials	Strong oxidising agents.
Hazardous Decomposition Products	Nitrogen oxides Carbon Monoxide Carbon Dioxide

Section 11: Toxicological Information

Acute oral toxicity	LD50 Oral Rat >2,885.3 mg/kg
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Safety Data Sheet

H206 WEST SYSTEM SLOW HARDENER

Version 3



ATL composites

Acute dermal toxicity	LD50 Dermal Rabbit 2,980 mg/kg
Acute inhalation toxicity	LC50 Inhalation Rat 8h >0.74 mg/l
Inhalation	May give off gas, vapour or dust that is very irritating or corrosive to the respiratory system.
Ingestion	If ingested, severe burns of the mouth and throat.
Skin	Causes skin burns.
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	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data available on the product itself
Germ cell mutagenicity	Animal testing did not show any mutagenic effects. Result: Not mutagenic in Ames Test
Specific target organ systemic toxicity (single exposure)	Skin - Rabbit Result: Corrosive, category 1C – where responses occur after exposure between 1 hour and 4 hours and observations up to 14 days. (OECD Test Guidelines 404)
Specific target organ systemic toxicity (repeated exposure)	Eyes – Rabbit Result: Corrosive to eyes (OECD Test Guideline 405) Rat – Dermal – no observed adverse effect level – 250 mg/kg Rat – Oral – no observed adverse effect level – 239 mg/kg
Additional information	Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Cough, shortness of breath, headache, nausea.

Section 12: Ecological Information

Toxicity to fish	Semi-static test LC50 – <i>Oncorhynchus mykiss</i> (rainbow trout) >15mg/l – 96h Static test NOEC – <i>Oncorhynchus mykiss</i> (rainbow trout) 15mg/l – 96h
Toxicity to daphnia and	Static test EC50 – <i>Daphnia</i> 80mg/l – 48h (OECD Test Guideline 202)

Safety Data Sheet

H206 WEST SYSTEM SLOW HARDENER

Version 3



ATL composites

other aquatic invertebrates	NOEC Daphnia 18mg/l – 48h
Persistence / Degradability	Biodegradability Result: 0% - According to the results of tests of biodegradability this product is not readily biodegradable. (OECD Test Guideline 301B)
Mobility	Not available.
Environmental Protection	Do not allow product to enter drains, waterways or sewers.

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 : POLYAMINES, LIQUID, CORROSIVE, N.O.S. (POLYETHERAMINE) Class : 8 Packing Group : III Marine Pollutant : Yes
IATA	UN/ID No : UN2735 Proper shipping name : POLYAMINES, LIQUID, CORROSIVE, N.O.S. (POLYETHERAMINE) Class : 8 Packing Group : III Marine Pollutant : Yes ERG : 8L
IMDG	UN/ID No : UN2735 Proper shipping name : POLYAMINES, LIQUID, CORROSIVE, N.O.S. (POLYETHERAMINE) Class : 8 Packing Group : III Marine Pollutant : Yes EmS : F-A, S-B
RID	UN/ID No : UN2735 Proper shipping name : POLYAMINES, LIQUID, CORROSIVE, N.O.S. (POLYETHERAMINE) Class : 8 Packing Group : III Marine Pollutant : Yes

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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Safety Data Sheet

H206 WEST SYSTEM SLOW HARDENER

Version 3



ATL composites

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.