

Material Safety Data Sheet

H206 West System Slow Hardener

Version 1.2



Section 1: Identification of the Substance or Mixture and of 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 : 13th May 2013

Section 2: Hazards Identification

Hazard Classification : HAZARDOUS SUBSTANCE. DANGEROUS GOODS

Risk Phrases

R34 Causes burns
R41 Risk of serious damage to eyes
R21/22 Harmful in contact with the skin and if swallowed
R42/43 May cause sensitization by inhalation and skin contact
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety Phrases

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.

Section 3: Composition/Information on Ingredients

Chemical Name	CAS No.	Weight %
Polyoxypropylenediamine	9046-10-0	30 - 60
Polymer of epichlorohydrin, bisphenol-A, and DETA	31326-29-1	30 - 60
Tetraethylenepentamine	112-57-2	10 - <30
Reaction Products of TETA and propylene oxide	26950-63-0	<10

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ATL composites

Triethylenetetramine	112-24-3	<10
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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. If symptoms persist seek medical attention.

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 (CO₂).
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.

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. Do not allow to enter water ways.

Methods for cleaning up : Approach suspected leak areas with caution. Place in appropriate chemical waste container.

Additional advice : If possible, stop flow of product.

Section 7: Handling and Storage

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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. Corrosive to 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.

Storage

Requirements for storage areas and containers : Keep containers closed when not in use.

Section 8: Exposure Controls / Personal Protection

Workplace exposure standards:

TWA (mg/m ³)	STEL (mg/m ³)
4.2	Not set

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.

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	:	Liquid
Colour	:	Light yellow
Odour	:	Amine odour
pH	:	Not available
Melting Point	:	Not Determined
Boiling Point	:	>100°C
Flash Point	:	105°C (PMCC)
Vapour Pressure	:	0.37 mmHg @20°C
Density	:	1.00 to 1.05
Solubility in water	:	Miscible

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.

Section 11: Toxicological Information

Potential Health Effects

Skin Contact	Causes burns, may cause sensitisation by skin contact.
Eye Contact	Risk of serious damage to eyes. Causes burns.
Ingestion	Harmful if swallowed.
Inhalation	May cause sensitization by inhalation, may give off gas, vapour or dust that is very irritating or corrosive to the respiratory system.

Polyoxypropylenediamine

Ingestion	Acutely Toxic: LD50 Oral Rat 2980 mg/kg
Eye Contact	No specific data
Skin Contact	Acutely Toxic: LD50 Dermal Rabbit 2980 mg/kg
Skin Absorption	Chronically Toxic: Sub-chronic NOAEL Dermal Rat 250mg/kg 90days
Inhalation	No specific data

Polymer of epichlorohydrin, bisphenol-A, and DETA

Ingestion	No specific data
Eye Contact	No specific data
Skin Contact	No specific data

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Skin Absorption No specific data
Inhalation No specific data

Tetraethylenepentamine

Ingestion Acutely Toxic: LD50 Oral Rat 3250 mg/kg
Eye Contact No specific data
Skin Contact Acutely Toxic: LD50 Dermal Rabbit 660 mg/kg
Skin Absorption No specific data
Inhalation No specific data

Reaction Products of TETA and propylene oxide

Ingestion No specific data
Eye Contact No specific data
Skin Contact No specific data
Skin Absorption No specific data
Inhalation No specific data

Section 12: Ecological Information

Toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment.

Tetraethylenepentamine
Fish: LC50 guppie (Poecilia reticulata:570mg/L)

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.(Polyoxypropylenediamine)
ADG DG Class 8
ADG Hazchem Code 3X
ADG Packing Group III

Other Information

IATA Proper shipping name : Amines, liquid, corrosive, n.o.s.
(Polyoxypropylenediamine)
Class : 8
UN/ID No. : UN2735
Packing group : III
IMDG Proper shipping name : AMINES, LIQUID, CORROSIVE,

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N.O.S. (Polyoxypropylenediamine)
Class : 8
UN/ID No. : UN2735
Packing group : III

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
Hazard
Category**

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HAZARDOUS SUBSTANCES
CLASSIFICATION: Corrosive. Sensitiser.

**Packaging &
Labelling**

Product is labelled in accordance with the Code of Practice for Labelling Workplace Substances.

Section 16: Other Information

**Contact
Person/Point**

PRODUCT INFORMATION MANAGER: (+61) 7 5563 1222
12-14 Production Av Ernest

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.