

ADHESIVE TECHNOLOGIES NZ LTD. **Safety Data Sheet**

PRODUCT NAME: Epoxy Timber Sealer Hardener **ISSUE DATE:** 19/03/2021 **REVISION:** 2.2

1. Product and Company Identification

Product Name	ATL Epoxy Timber Sealer Hardener ADH 450		
Product Code	ADH450		
Recommended uses	Construction of fibre reinforced equipment and fittings. Suitable for construction of recreational water craft. Corrosion resistant flooring and coatings.		
Company	Adhesive Technologies NZ Ltd		
Street Address	17 Corban Avenue Henderson Auckland		
Telephone	+64 9 838 6961		
Emergency Contact numbers	National Poisons Centre 0800 764 766 (0800 POISON)	Other Countries 0064 3 479 7248	New Zealand Fire Service— 111

2. Hazards Identification

HSNO Classification

Signal Word: WARNING

3.1B	Flammable Liquid-Medium Hazard
6.1D	Acutely Toxic (oral, inhalation)
6.3A	Irritating to the skin
6.4A	Irritating to the eyes
6.8B	Suspected human reproductive or developmental toxicant
6.9B	Toxic to human target organs or systems by inhalation
9.1D	Slightly harmful in the aquatic environment or are otherwise designed for biocidal action (fish)
9.3C	Harmful to terrestrial vertebrates

GHS Classification

Hazard Symbols

Flammable liquids	Category 3
Acute toxicity: Skin	Category 1
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 2
Aquatic toxicity (Acute)	Category 2



Hazard statements

H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H315	Causes skin irritation.
H320	Causes eye irritation
H332	Harmful if inhaled
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H401	Toxic to aquatic life
H433	Harmful to terrestrial vertebrates

Precautionary statements

Prevention

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P210	Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground container and receiving equipment

- P241 Use explosion-proof electrical, ventilating and lighting equipment
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing vapours
P264 Wash hands and exposed skin thoroughly after handling
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection

Response

- P301 + P312 + P330 IF SWALLOWED: Immediately call a POISON CENTRE or doctor. Rinse mouth.
P303 + P361 + P353 F ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
P363 Wash contaminated clothing before re-use.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for Breathing.
P312 Call a POISON CENTRE or doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice.
P309 + P311 If exposed or if you feel unwell: Get medical advice.
P370 + P378 In case of fire: Stop leak if safe to do so.

Storage

- P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal

- P501 Dispose of contents and container to licensed, permitted incinerator, or other thermal destruction device.

3. Composition/Information on Ingredients

Chemical Name	CAS no.	Weight %
toluene	108-88-3	>80
Aminoethyl piperazine, 1-2-, (AEP)	140-31-8	<10
4-Nonylphenol, branched	84852-15-3	<10
Tris-2,4,6-(dimethylaminomethyl)phenol	90-72-2	<1
Bis(dimethylaminomethyl)phenol	71074-89-0	<1
Other ingredients determined not to be hazardous		To 100

4. First Aid

- General advice** For advice, contact National Poison Centre (Phone New Zealand: 0800 764 766) or a doctor.
Inhalation Move the victim to fresh air immediately. Keep warm and at rest. Begin artificial respiration if breathing has stopped. Use mouth to nose rather than mouth to mouth. Seek immediate medical attention.
Skin Contact If skin or hair contact occurs, remove contaminated clothing and flush affected area with large amounts of water then wash with soap and water. If redness, swelling or blisters occur get medical attention.
Eye Contact Hold eyelids apart and flush the eye continuously with running water. Remove contact lenses if present and easy to do after 5 minutes. Continue flushing for at least 15 minutes. Get medical attention.
Ingestion If swallowed, do NOT induce vomiting. Keep at rest. Rinse mouth with water. Seek immediate medical attention. Begin artificial respiration if the person is not breathing. Use mouth to nose rather than mouth to mouth.
Treatment Treat according to symptoms. Gastric lavage may be indicated if ingested. Risk of aspiration of product to lungs with the potential to cause chemical pneumonitis.

5. Fire-fighting Measures

Shut off product that may 'fuel' a fire if safe to do so. Keep people away. Eliminate ignition sources if safe to do so. Allow trained personnel to attend a fire in progress, providing fire-fighters with this Safety Data Sheet. Flammable mixtures of this product are readily ignited even by static discharge. Vapours are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Flammable concentrations of vapour can accumulate at temperatures above the product flashpoint. Prevent extinguishing media from escaping to drains and waterways.

Avoid accumulation of water. Product may be carried across water surface spreading fire or contacting ignition sources.

Carbon monoxide may be evolved if incomplete combustion occurs.

Suitable extinguishing media Foam, water spray or fog. Do not use water jet. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires. Alcohol resistant foam may be required. Risk of explosion.

Hazardous Combustion Products Keep adjacent containers cool by spraying with water.

Special Protective Equipment for Firefighters Carbon dioxide and carbon monoxide

Hazchem Code Full protective clothing and self-contained breathing apparatus

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6. Accidental Release Measures

Emergency Procedures Prevent fluid from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours from building up in confined areas. Ensure that drain valves are closed at all times. Clean up and report spills immediately.

Methods and materials for containment For small spills, absorb with earth, sand or other non-combustible material. Collect and seal in properly labelled containers for disposal.

Major Land Spill

- Eliminate sources of ignition.
- Warn occupants of downwind areas of possible fire and explosion hazard.
- Prevent liquid from entering sewers, watercourses, or low-lying areas.
- Keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.
- Take measures to minimize the effect on the ground water.
- Contain the spilled liquid with sand or earth.
- Recover by pumping – use explosion proof pump or hand pump – or with a suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

Major Water Spill

- See "First Aid Measures" and "Stability and Reactivity"
- Eliminate any sources of ignition.
- Warn occupants and shipping in downwind areas of possible fire and explosion hazard.
- Notify the port or relevant authority and keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Confine the spill if possible.
- Remove the product from the surface by skimming or with suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See "First Aid Measures" and "Stability and Reactivity".

7. Handling and Storage

Precautions for safe handling This product is highly flammable. Do not open near open flame, sources of heat or ignition. No smoking. Keep container closed. Handle containers with care. Open slowly to control possible pressure release. Electrically bond and ground all containers, personnel and equipment before transfer or use of product. Material may accumulate static discharge. Use only non-sparking tools and equipment,

	including explosion-proof equipment. Do not use compressed air for filling, discharging or handling operations.
	Wear personal protection equipment. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion, inhalation, eye and skin contact. Do not eat, drink or smoke in work areas. Wash thoroughly after handling. Remove contaminated clothing and wash before re-use.
Conditions for safe storage	Store locked up in closed containers a cool, dry well-ventilated place away from direct sunlight. Minimize or eliminate any sources of ignition such as static build up, heat, spark and flame. Do not pressurize, cut, heat or weld containers - residual vapours are extremely flammable. This product is highly flammable and will fuel a fire in progress.
Incompatible materials	Natural rubber, butyl rubber, EPDM, polystyrene, polyethylene, PVC, polypropylene, polyacrylonitrile.

8. Exposure Controls / Personal Protection

Workplace Exposure Standards	Toluene <small>SKIN</small> WES-TWA - 50 ppm; 188 mg/m ³
Biological limit values	None established
Engineering controls	Ventilation: The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment
Personal Protection	Respiratory Protection: Where concentrations in air may exceed the limits described in the Health Exposure Standards, it is recommended to use a half-face filter mask to protect from over-exposure by inhalation. A type "A" filter material is considered suitable for this product. If exposure levels unknown or in case of emergencies, wear a full-face piece positive-pressure, air-supplied respirator or air-purifying respirator fitted with organic vapour cartridge as appropriate to the circumstances.

Eye Protection: Always use safety goggles or a face shield when handling this product.

Skin/ Body Protection: Wear antistatic clothing with long sleeves and long trousers or coveralls, and enclosed footwear or safety boots when handling this product. Wear chemical resistant gloves, e.g. nitrile rubber for incidental contact or Viton. Use chemical resistant apron and gauntlet gloves, boots whenever there is a risk of splashing or in cleaning up a spillage.

9. Physical and Chemical Properties

Appearance	Liquid
Colour	Yellow
Odour	Aromatic
pH	No Data Available
Vapour pressure	7 kPa @ 38°C (toluene)
Vapour density	>1 @ 20°C (air=1)
Boiling Point	110 - 111 °C Literature (toluene).
Melting/Freezing Point	Not determined
Solubility (water)	0.05 (toluene)
Specific Gravity/Density	0.865 (toluene)
Flash Point	5°C (typical) (toluene)
Flammable Limits	Not determined
Auto-ignition	>530 °C (toluene)

10. Stability and Reactivity

Chemical Stability	Stable at room temperature and pressure
Conditions to avoid	Sources of heat and ignition, open flames, vapour accumulation.
Hazardous decomposition products	No decomposition products except on burning. See "Fire Fighting Measures".
Hazardous reactions	Oxidising agents.

11. Toxicological Information

Potential Health effects

Inhalation	Harmful by inhalation. The inhalation of vapours will cause dizziness and drowsiness. Possibility also of organ damage through prolonged use or exposure. Central nervous system depression includes nausea, headaches, dizziness and possible loss of consciousness, coma and even death.
Ingestion	Harmful if swallowed, will irritate throat and tube to stomach and may cause nausea. Vomiting may cause this product to be aspirated to the lungs resulting in chemical pneumonitis.
Skin	This product is irritating to the skin with prolonged exposure. It may result in dryness and cracking of skin.
Eye	This product is irritating to eyes and will cause redness and swelling with a burning sensation and blurred vision.
Chronic Effects	Repeated over exposure may cause hemolysis of the red blood cells leading to possible liver and kidney damage. There is evidence of potentially irreversible damage to the peripheral nervous system, particularly arms and legs. Any existing dermatitis may be exacerbated by exposure to this product. Prolonged contact with this product will result in irritant contact dermatitis if care is not taken to wash affected areas.
Other Health Effects Information	EPA NZ have classified toluene as a 6.8B; suspected of damaging fertility or the unborn child, and as a 6.9B; may cause damage to organs and systems through prolonged or repeated exposure by inhalation. Persons with pre-existing liver, kidney, central nervous system or skin complaints should avoid unnecessary exposure to this product. Every effort to protect eyes, respiratory tract and skin exposure should be taken in these circumstances. The potential for adverse effects through exposure to this product are increased when in combination with ethanol. This means the adverse effects as described under Ingestion or Inhalation will be increased or experienced more quickly.
Toxicological Information	Toluene: Oral, rat LD50 636 mg/kg Dermal, rabbit LD50 > 2000 mg/kg Inhalation, rat LC50(4h) 12.5 mg/L

12. Ecological Information

(Toluene)

Ecotoxicity

Aquatic toxicity Product is toxic to aquatic life.

Persistence/degradability This product is expected to biodegrade rapidly. Does not bioaccumulate significantly.

Mobility Highly volatile, mobile in soil and will evaporate to air if released into water.

Environmental Exposure Not set

Standards

13. Disposal Considerations

Disposal

Disposal Methods:

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain fumes and vapours that are flammable and harmful. Ensure that empty packaging is allowed to dry.

Special Precautions for Landfill or Incineration:

This product is NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product is ashless and can be burned directly in appropriate equipment.

14. Transport Information

Road, Rail, Sea and Air Transport

UN Number	3286
Proper Shipping name	Flammable liquid, toxic, corrosive, n.o.s. (contains hydrocarbons)
DG Class	3
Subsidiary class	6.1, 8
Packing Group	II
HAZCHEM code	3YE
IMO/IMDG class	3
ICAO/IATA class	3
EMS code	F-E,S-C
Marine pollutant	Yes

15. Regulatory Information

ERMA NZ Approval code HSR002662

16. Other Information

FOR FURTHER PRODUCT INFORMATION CALL ADHESIVE TECHNOLOGIES NZ LTD DURING BUSINESS HOURS

Product Information Manager

(+64) 9 838 6961

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