

Safety Data Sheet

PRODUCT NAME: ADR230 ISSUE DATE: 19/03/2021 REVISION: 2.1

1. Product and Company Identification

Product Name

ATL Epoxy Resin ADR 230

Product Code

ADR230

Recommended

Construction of fibre reinforced equipment and fittings. Suitable for construction of

uses

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

6.1D

+04 9 030 0901

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National Poisons Centre

Other Countries

New Zealand Fire Service-

Contact numbers

0800 764 766 (0800 POISON)

0064 3 479 7248

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2. Hazards Identification

HSNO Classification

Acutely toxic (oral, dermal, inhalation)

6.3A Irritating to the skin6.4A Irritating to the eyes

6.5B Contact sensitisers

9.1B Very ecotoxic in the aquatic environment

GHS Classification

Acute toxicity: Skin
Category 4
Acute toxicity: Oral
Category 4
Acute toxicity: Inhalation
Category 4
Skin corrosion/irritation
Category 2
Serious eye damage/eye irritation
Category 2
Skin sensitization
Category 1
Aquatic toxicity (Chronic)
Category 2

Hazard Symbols

Signal Word: WARNING





Hazard statements

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

P261 Do not breathe mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.

PRODUCT NAME: ADR230 ISSUE DATE: 19/03/2021 REVISION: 2.1

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present
P338	and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P321	Specific treatment (see First Aid Measures below)
P363	Wash contaminated clothing before reuse.
P391	Collect spillage

Storage

No storage statements

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/Information on Ingredients		
Chemical Name	CAS no.	Weight %
Bisphenol A/ epichlorohydrin resin	25085-99-8	60-80
Formaldehyde, polymer with (chloromethyl)oxirane and phenol	9003-36-5	0-10
Alkyl (C12, C14) glycidyl ether	68609-97-2	10-30
Other ingredients determined not to be hazardous		To 100

4. First Aid	
Inhalation	Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.
Skin Contact	Remove contaminated clothing/shoes and wipe excess from skin. Flush skin with water. Follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned. Contaminated leather articles, including shoes, cannot be decontaminated and should be destroyed to prevent reuse.
Eye contact	Flush eyes with plenty of water for 15 minutes while holding eyelids open. Get medical attention.
Ingestion Treatment	Do not induce vomiting. Rinse mouth with water. Give plenty of water to drink. Treat symptomatically

5. Fire-fighting Measures

Extinguishing Media	Use water fog, foam, dry chemical or carbon dioxide.
Extinguishing Media to Avoid	Do not use direct water stream. May spread fire
Hazardous Combustion Products	During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Phenolics. Carbon monoxide. Carbon dioxide.
Unusual Fire and Explosion Hazards	Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Dense smoke is emitted when burned without sufficient oxygen.
Fire Fighting Procedures	Clear fire area of all non-emergency personnel. Isolate fire and deny unnecessary entry. Cool fire exposed containers with water. Irritating fumes are released in fire situations. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Do not allow material or run-off to enter waterways. Stay upwind, keep out of low areas.

PRODUCT NAME: ADR230 ISSUE DATE: 19/03/2021 REVISION: 2.1

Fire-fighting equipment

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting

clothing (includes firefighting helmet, coat, trousers, boots, and gloves).

Avoid contact with this material during firefighting operations. If contact is likely, change to full chemical resistant firefighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and

fight fire from a remote location

HAZCHEM 3Z

6. Accidental Release Measures

General Precautions Isolate area. Keep unnecessary and unprotected personnel from entering the area. Use

appropriate safety equipment.

For additional information, refer to Section 8, Exposure Controls and Personal Protection. Refer to

Section 7, Handling, for additional precautionary measures.

Personal Precautions Use cautious judgement when cleaning up spills. Shut off leaks, if possible without personal risk.

Environ-

Dike and Contain. Contain run-off and dispose of properly. Remove contaminated soil to remove contaminated trace residues. Prevent from entering into drains, ditches or rivers.

mental contamir Precautions

Clean-up

Soak up with an absorbent material such as clay, sand, sawdust or Zorball. Place in non-leaking

Methods (small)

container. Seal tightly for proper disposal.

Clean-up Methods

(large)

Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent material such as clay, sand, sawdust or Zorball. Place in non-leaking container. Seal

tightly for proper disposal. Flush are with water to remove trace residue.

7. Handling and Storage

Handling

Keep out of reach of children. Put on appropriate PPE (see section 8). Causes skin irritation and sensitivity. Avoid contact with skin, eyes and clothing. Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Do not breathe vapour or mist. Clean up spilled material immediately, and wash clothes, equipment and work area after use. Store in a cool, dry place with adequate ventilation. Keep containers closed when not in use.

Storage

8. Exposure Controls / Personal Protection

Workplace Exposure Standards

None established

Engineering controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants as low as possible and/or below any recommended or statutory limits. Use explosion-proof ventilation equipment.

Personal Protection

Respiratory - Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Skin - Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Eye - Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Hand - Recommended: polyvinyl alcohol (PVA), Butyl rubber, EVAL, Neoprene.

19/03/2021 **REVISION: ISSUE DATE:**

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PRODUCT NAME:

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Appearance	Liquid	
Colour	Pale blue	
Odour Sweet odour		
рН	≈ 5	
Vapour pressure 82 Pa (4.5 mm Hg		
Vapour density	>1 [Air = 1]	
Boiling Point	int Not available	
Melting/Freezing Point	Not available	
Solubility (water) Not Miscible		
Specific Gravity/Density	1.16 g/cm ³ [25°C (77°F)]	
Flash Point 251°C (closed cup		
Flammable Limits LFL: Not available		
	UFL: Not available	
Auto-ignition >300°C		

ADR230

10. Stability and Reactivity

Chemical

Stable under recommended storage conditions.

Stability

Conditions to

Avoid temperatures above 300°C. Potentially violent decomposition can occur, causing gas

generation and pressure increases in closed systems.

avoid Materials to

Reactive or incompatible with the following materials: oxidizing materials

avoid

Slightly reactive or incompatible with the following materials: acids, amines, anhydrides,

chloroform, chloroform acid.

Hazardous

Decomposition products may include the following materials: carbon oxides, phenolics and

Decomposition **Products**

water.

11. Toxicological Information

Potential Health effects

Vapours are unlikely due to physical properties. Inhalation

Ingestion

Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

Skin

Prolonged or repeated contact may cause skin irritation.

Eye

May cause eye irritation. Corneal injury is unlikely.

Acute Health Effects

(Bisphenol A/ epichlorohydrin resin)

Test	Species	Result	Exposure
LD50 Oral	Rat	>5000mg/kg	-
LD50	Rabbit	20,000mg/kg	-
Dermal	Nabbit	20,000mg/kg	**

Systemic Effects

Except for Skin sensitization, repeated exposure is not likely to cause significant adverse

effects.

Carcinogenicity

IARC has classified DGEBPA as non-carcinogenic.

In animal studies, did not cause birth defects or other adverse effects on the foetus when

Mutagenicity

pregnant rabbits, did not interfere with reproduction. Animal genetic toxicity studies were

negative.

PRODUCT NAME: ADR230 ISSUE DATE: 19/03/2021 REVISION: 2.1

12. Ecological Information

(Bisphenol A/ epichlorohydrin resin)

Ecotoxicity

Material is moderately toxic to aquatic organisms on an acute basis

	Species	Period	Result
LC50	fathead	96 h	3.1 mg/l
	minnow		
EC50	water flea	48 h	1.4 - 1.7 mg/
IC50	bacteria	18 h	> 42.6 mg/l

Degradability

Under OECD guidelines this material cannot be considered as readily degradable.

Bioaccumulation

Moderate $Log P_{ow} = 3 - 5$

HSNO

9.1B Very ecotoxic in the aquatic environment

Classification

13. Disposal Considerations

Disposal

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations.

FOR UNUSED AND UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: recycler, reclaimer, incinerator or other destruction device.

14. Transport I	nformation
Road, Rail, Sea and	Air Transport
UN Number	UN3082
Proper Shipping name	Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin mixture)
DG Class	9
Packing Group	Ш
HAZCHEM code	3Z
IMO/IMDG class	9
ICAO/IATA class	9
EMS code	F – A, S – F
Marine pollutant	Yes

15. Regulatory Information

ERMA NZ Approval code

HSR002670

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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