SAFETY DATA SHEETS (SDS)
Enviro Epoxy WB Part B

Version: 1

Issued by: Envirosystems Technologies

Date of Issue: October 2019

Hazard Identifiers

SECTION 1 – IDENTIFICATION OF MATERIAL & SUPPLIER

1.1	**Product Name:**	Enviro Epoxy WB Part B
	Manufacturer's Product Code:	N/A
1.2	**Recommended Use:**	Part B of a two component, epoxy coating
1.3	**Company:**	Envirosystems Technologies Pty Ltd
	Address:	295 Princes Highway St Peters, NSW 2044.
	Website:	www.envirosystems.com.au
	Telephone:	+61 2 85958699 (business hours)
	Fax:	+61 2 85958660
1.4	**Emergency Telephone:**	Info Safe – 1800 638 556, Poisons Centre – 131126

Other Information: All information in this SDS is to the best of our knowledge at time of publication. Users of this product should fully review this SDS prior to use to ensure best safety practices. Further information and or clarification can be obtained by contacting our technical department on the above telephone number.

SECTION 2 – HAZARDS IDENTIFICATION

2.1 Hazard Classification:

Classified as **Hazardous** according to WHS Regulations, Australian GHS criteria and a **Non-Dangerous Goods** according to the Australian Dangerous Goods Code.

Class	Category
Sensitizer - Skin	1

2.2 Label Elements

Signal word **Warning**

H-code	Hazard Statements
H317	May cause an allergic skin reaction.
P-Code	**Precautionary Statement - Prevention**
P261	Avoid breathing in dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P272	Contaminated work clothing should not be allowed out of the workplace
P-Code	**Precautionary Statement - Response**
P302, P352	IF ON SKIN: Wash with plenty of water and soap
P333, P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.

P-Code	Precautionary Statement - Storage
P-Code	**Precautionary Statement - Disposal**
P501	Dispose of contents / containers to hazardous or special waste collection point. In accordance with local regulation

2.3 Other Hazards None known

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances See section below for Mixtures

3.2 Mixtures

CAS No.	Material	Content %
	aliphatic polyamine	<12
90530-15-7	acrylonitrile amine adduct	<3
2855-13-2	isophorone diamine	<1
1477-55-0	benzene-1,3-dimethanamine	<1

SECTION 4 – FIRST AID MEASURES

4.1 Description of first aid measures

General Advice:
Immediately remove contaminated clothing. If in danger of loss of consciousness, place patient in recovery position and transport accordingly. Apply artificial reparation if necessary. First aid personal should pay attention to the own safety.

Ingestion:
. Wash mouth with water then provide liquid slowly and as much as casualty can comfortably drink. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Inhalation:
If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.

Eye Contact:
While holding eyes open, gently flood with plenty of fresh water for 15 minutes. If irritation persists or recurs seek medical attention. Skilled personnel should only undertake removal of contact lenses after an eye injury.

Skin Contact:
Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

4.2 Most important symptoms and effects, both acute and delayed Any relevant information can be found in other parts of this section and in sections 2 and 11.

4.3 Advice for doctor Treat symptomatically

SECTION 5 – FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:
There is no restriction on the type of extinguisher which may be used. Use extinguishing media suitable for surrounding area.

5.2	**Special hazards arising from the substance or mixture**	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result.
5.3	**Advice for firefighters**	Pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes, carbon dioxide (CO2) The material is not readily combustible under normal conditions. However, it will break down under fire conditions and the organic component may burn Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1	**Personal precautions, protective equipment and emergency procedures**	Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. If material is released indicate risk of slipping. Do not walk through spilled material.
6.2	**Environmental precautions**	Do not discharge into sewers or waterways and soil.
6.3	**Methods and material for containment and cleaning up**	Small or major spills should be absorbed with dry, inert filler (soil or sand) which then can be shoveled into appropriately labeled drums for disposal. Disposal of this material should be undertaken by a registered chemical disposal company. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves.
6.4	**Reference to other sections**	Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

SECTION 7 – HANDLING & STORAGE

7.1	**Precautions for safe handling**	Ensure thorough ventilation of stores and work areas. Handle in accordance with good industrial hygiene and safety practice. When using do NOT eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. Protection against fire and explosion: The product is combustible. Prevent electrostatic charge - sources of ignition should be kept well clear – fire extinguishers should be kept handy. Avoid all personal contact, including inhalation. Do NOT cut, drill, grind, weld or perform similar operations on or near containers. Do NOT allow clothing with this material to stay in contact with skin. Use Polyethylene or polypropylene container. Packing as recommended by manufacturer.
7.2	**Conditions for safe storage**	**Storage Requirements:** Store in a cool, dry area away from incompatible materials. **Incompatible materials:** Do NOT store near oxidising agents. **Temperature Conditions:** Up to 40º C **Protection from weather:** Store undercover and away from frost and moisture. Avoid reaction with oxidising agents.
7.3	**Specific end use(s)**	Once mixed with part A and applied, produces an epoxy coating.

7.4 **Regulations and standards (Australia):** Classified as Hazardous Liquid which should be stored and handled in accordance with regulations

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 **Control parameters**

Exposure limits:

Ingredient	TWA	STEL
benzene-1,3-dimethanamine	N/A	N/A

Emergency limits:

Ingredient	TEEL-0	TEEL-1	TEEL-2	TEEL-3

8.2 **Exposure controls**

General protection and hygiene measures:
Good Ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations. Do not eat, drink or smoke when handling. Wash hands at the end of work and before eating. Keep working clothes separately. Remove contaminated, soaked clothing immediately. Clean work areas regularly.

Personal protection equipment:

Respiratory protection
Respiratory protection should be worn. Type AK-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent). When exposure limits are exceeded or spaying continuous-flow or positive pressure is required.

Eye protection
Chemical goggles with unperforated side shields may be used where continuous eye protection is desirable. Full face respiratory may be required if exposure causes discomfort.

Hand protection
Elbow length PVC gloves gloves preform the best. When handling, wear trousers or overalls outside of boots, to avoid spills entering boots. Remember to also take into account of other chemical or processes when selecting glove type as well.

Skin protection
Overalls clothing and PVC Apron, PVC protective suit may be required if exposure severe

Other Information
Always wash hands before smoking, eating, drinking or using the toilet and after finishing work. Observe the usual precautions when handling chemicals.

8.3 **Further information for system design and engineering measures** Ventilation is recommended under normal use conditions. State regulations on speed and direction of airflow away from operators must be observed. Keep containers closed when not in use.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

9.1

Odour:	Amine odour
Odour Threshold	No test data avaliaible
Colour:	Clear yellow
Physical State:	liquid
Flash Point:	108
Boiling Point:	>100

	Melting Point:	Not Available
	Specific Gravity:	1.04
	pH:	11
	Solubility in Water (g/L):	Miscible
	Flammability:	Not Available
	Explosive Lower Limit:	Not Available
	Explosive Higher Limit:	Not Available
	Vapour Pressure:	2.3
	Vapour Density (Air = 1)	>1
	Volatile component	<10 g/L
	Auto-ignition temperature (°C)	Not Available
9.2	**Other information**	None available

SECTION 10 – STABILITY AND REACTIVITY

10.1-3	**Reactivity; Chemical stability; Possibility of hazardous reactions**	If stored and handled in accordance with standard industrial practices not hazardous reactions are known. Unstable in the present of incompatible material.
10.4	**Conditions to avoid**	See SDS section 7 - Handling and storage.
10.5	**Incompatible materials**	See section 7
10.6	**Hazardous decomposition products**	See section 5

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity/Effects

Enviro Epoxy WB part B:

isophorone diamine:
Acute toxicity
Oral (rat) LD50: 1030 mg/kg

Irritation
Not available

benzene-1,3-dimethanamine:
Acute toxicity
Dermal (rabbit) LD50: 2000 mg/kg
Inhalation (rat) LC50: 700 ppm/1h
Oral (rat) LD50: 930 mg/kg

Irritation
Eye (rabbit): 0.05 mg/24h SEVERE
Skin (rabbit): 0.75 mg/24h SEVERE

Chronic Toxicity/Effects

Enviro Epoxy WB part B:
Amine epoxy-curing agents (hardeners) may produce primary skin irritation and sensitisation dermatitis in predisposed individuals. Cutaneous reactions include erythema, intolerable itching and severe facial swelling. Blistering, with weeping of serious fluid, and crusting and scaling may also occur. Virtually all of the liquid amine curing agents can cause sensitisation or allergic skin reactions.

Long Term Effects: Above

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity

benzene- 1,3-dimethanamine:
LC50 96 Fish 191.854mg/L EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated)
EC50 96 Algae or other aquatic plants 33.195mg/L EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated)

isophorone diamine :
LC50 96 Fish 54.352mg/L EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated)
EC50 48 Crustacea 17.4mg/L US EPA, Ecotox database - Aquatic Toxicity Data
EC50 96 Algae or other aquatic plants 7.221mg/L EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated)
EC10 72 Algae or other aquatic plants =3.1mg/L IUCLID Toxicity Data

Microorganisms/Effect on sludge

No Data Available

Persistence and degradability

benzene-1,3-dimethanamine
water/soil HIGH, air HIGH

isophorone diamine
water/soil HIGH, air HIGH

Bioaccumulative potential

benzene- 1,3-dimethanamine
LOW (BCF = 2.7)

isophorone diamine
LOW (BCF = 3.4)

Mobility in soil

benzene-1,3-dimethanamine
LOW (KOC = 914.6)

isophorone diamine
LOW (KOC = 340.4)

Additional Information

Do NOT discharge into sewer or waterways. Prevent, by any means available, spillage from entering drains or water courses.

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Material Recommendation:
Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration. Do **NOT** allow wash water from cleaning or process equipment to enter drains.

Uncleaned packaging Recommendation:
Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

SECTION 14 – TRANSPORT INFORMATION

Transport Information

Classified as a Dangerous Good according to the Australian Code for the Transportation of Dangerous Goods by Road and Rail.

	U.N. Number:	N/A
	DG Class:	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
	EPG card:	N/A
	Hazchem Code:	N/A
	Proper Shipping Name:	N/A
	Packing Group:	N/A
	Poison Schedule	N/A
Classification for SEA transport (IMO-IMDG)	U.N. Number:	N/A
	DG Class:	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
	Proper Shipping Name:	N/A
	Packing Group:	N/A
	Marine Pollutant:	No
Classification for AIR transport (IATA/ICAO)	U.N. Number:	N/A
	DG Class:	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
	Proper Shipping Name:	N/A
	Packing Group:	N/A
Label		

SECTION 15 – REGULATORY INFORMATION

15.1	**Safety, health and environmental regulations/legislation specific for the substance or mixture**	National and local regulations must be observed. For information on labeling please refer to section 2 of this document. **Poisons Schedule Number: None**
	Australian Inventory:	Listed
	Controlled Schedule	Not listed substances
	Carcinogenic Substances:	

SECTION 16 – OTHER INFORMATION

Safety Data Sheets are updated regularly. Please ensure you have a current copy. SDS can be obtained from our website: www.envirosystems.com.au
The SDS should be used to assist in the Risk Management. Many other factors determine whether the reported Hazards are risks in any given workplace.
Specific Risks may be determined by reference to various Exposure Scenarios, Scale of use, Frequency of use and current or available engineering controls must be considered.

Emergency Telephone: Info Safe – 1800 638 556, Poisons Centre – 13112