SAFETY DATA SHEETS (SDS)
Enviro Epoxy Colourpack

Hazard Identifiers

Version: 1

Issued by: Envirosystems Technologies

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SECTION 1 – IDENTIFICATION OF MATERIAL & SUPPLIER

1.1 **Product Name:** Enviro Epoxy Colourpack
Manufacturer's Product Code: N/A
1.2 **Recommended Use:** Colour pack of a three-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 **Dangerous Goods** according to the Australian Dangerous Goods Code.

Class	Category
Skin Corrosion/Irritation	2
Serious eye damage/eye irritation	2
Skin Sensitization	1
Chronic Aquatic Toxicity	2

2.2 **Label Elements**

Signal word **Warning**

H-code	Hazard Statements
H315	Causes skin irritation
H319	Causes serious eye irritation
H317	May cause allergic skin reaction
H411	Toxic to aquatic life with long lasting effects.
P-Code	**Precautionary Statement - Prevention**
P260	Do not breathing dust/ fume/ gas/ mist/ vapours/ spray
P264	Wash skin thoroughly after handling.
P270	Do not eat drink or smoke when using this product

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
P-Code	**Precautionary Statement - Response**
P362, P364	Take off contaminated clothing and wash before reuse
P305, P351, P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P337, P313	If eye irritation persists get medical attention.
P303, P353, P361	If on skin or hair: Take off immediately all contaminated clothing. Rinse skin with water/shower.
P333, P313	If skin irritation or rash occurs: Get medical advice/ attention.
P391	Collect spillage
P-Code	**Precautionary Statement - Storage**
	Store locked up in a cool well-ventilated area
P-Code	**Precautionary Statement - Disposal**
P501	Dispose of contents/ container to an approved waste disposal plant. In accordance with local regulation

2.3 Other Hazards None known

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
3.2 Mixtures

See section below for Mixtures

CAS No.	Material	Content %
25068-38-6	bisphenol-A-(epichlorhydrin) and epoxy resin	30-60%
	Not classified by GHS	Remainder

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:
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Do not induce vomiting unless directed to do so by medical personal.

Inhalation:
Keep patient calm and remove to fresh air. If not breathing, give artificial respiration. Seek medical attention.

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

Skin Contact:
Flush contacted area thoroughly with soap and plenty of water. Seek medical attention in event of irritation. Remove contaminated clothing including footwear.

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: Water fog or fine spray, dry chemical powder, foam, BCF (where regulations permit). Alcohols resistant foams are preferred. Protein foams may functions but will be less effective. Unsuitable extinguishing media that may not be used for safety reasons: Do not use direct water stream as it might spread the fire.
5.2	**Special hazards arising from the substance or mixture**	Oxides of carbon and other possibly toxic fumes (phenolis) from fire.
5.3	**Advice for firefighters**	Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). Combustion products include:, carbon dioxide (CO2), phenolics products typical of burning organic material. Closed containers may rupture due to pressure buildup under fire conditions.

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.
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, prevent electrostatic charge - sources of

ignition should be kept well clear - fire extinguishers should be kept handy.

7.2 Conditions for safe storage

Storage Requirements:
Store in a cool, dry and well-ventilated place. If two part products are mixed or allowed to mix in proportions other than manufacturer's recommendation, polymerisation with gelation and evolution of heat (exotherm) may occur. This excess heat may generate toxic vapour. Avoid reaction with amines, mercaptans, strong acids and oxidising agents.
Temperature Conditions:
Up to 40º C
Protection from weather:
Store undercover and away from frost and moisture

7.3 Specific end use(s)

Once mixed with part A and B and applied, produces a hard wearing, durable surface suitable for commercial and industrial applications.

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	STEL	TWA
None known		

Emergency Limits:

Ingredient	TEEL-1	TEEL-2	TEEL-3
None known			

8.2 Exposure controls

General protection and hygiene measures:
General 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. When there is a potential to exceed exposure limits or guidelines a positive pressure full face respirator should be worn. If there are no applicable limits, wear respiratory protection when adverse effects like irritation or discomfort have been experienced or when indicated by you risk assessment process. Multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges are recommended.
Eye protection
Chemical goggles. Full face respiratory may be required if exposure causes discomfort.
Hand protection
Full contact and splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)
Do NOT use cotton or leather (which absorb and concentrate the resin), polyvinyl

chloride, rubber or polyethylene gloves (which absorb the resin).
Skin protection
Overalls clothing, P.V.C. apron.
Other Information
Do not use barrier creams to protect skin from contact with the material. 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:**	Not determined
	Odour Threshold	Not determined
	Colour:	Colorless to a Varity
	Physical State:	Low Viscosity Liquid
	Flash Point:	Not determined
	Boiling Point:	270°C
	Melting Point:	-15 - 5°C
	Specific Gravity:	1-2.5
	pH (5% solution):	Not determined
	Solubility in Water (g/L):	Insoluble
	Flammability:	
	Lower Limit:	Not determined
	Higher Limit:	Not determined
	Vapour Pressure:	<0.01
	Vapour Density (Air = 1)	Not determined
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

Exposure to elevated temperatures can cause product to decompose. Generation of gas during decomposition can cause pressure in closed systems. Heat, flames and sparks

10.5 Incompatible materials

Keep away from oxidizing agents, acids and alkalis and amines.

10.6 Hazardous decomposition products

Oxides of carbon and other possibly toxic fumes from fire.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity/Effects

bisphenol-A-(epichlorhydrin) and epoxy resin:
Acute toxicity
LD50 Oral - Rat - 13,600 mg/kg
Remarks: Behavioral: Somnolence (general depressed activity). Lungs, Thorax, or Respiration: Dyspnea. Nutritional and Gross Metabolic:Weight loss or decreased

weight gain.

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Chronic Toxicity/Effects

bisphenol-A-(epichlorhydrin) and epoxy resin:
Germ cell mutagenicity
No data available
Ames test
Result: positive

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

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Long Term Effects: No new information.

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity No data available

Microorganisms/Effect on sludge No data available

Persistence and degradability

Bisphenol A Diglycidyl Ether Resin:
Biodegradability Result: - According to the results of tests of biodegradability this product is not
readily biodegradable.
Remarks: No data available

Bio-accumulative potential No data available

Mobility in soil No data available

Additional Information Toxic to aquatic life with long lasting effects

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.

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:	3082
DG Class:	9
EPG card:	N/A
Hazchem Code:	3Z
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin
Packing Group:	III

Classification for SEA transport (IMO-IMDG)

U.N. Number:	3082
DG Class:	9
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin
Packing Group:	III
Marine Pollutant:	Yes epoxy resin

Classification for AIR transport (IATA/ICAO)

U.N. Number:	3082
DG Class:	9
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin
Packing Group:	III

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: S5

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