

SAFETY DATA SHEETS (SDS)

Enviro Epoxy Accelerator



Version:1

Issued by: EnviroSystems Technologies

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Hazard Identifiers



SECTION 1 – IDENTIFICATION OF MATERIAL & SUPPLIER

- 1.1 Product Name:** Enviro Epoxy Accelerator
Manufacturer's Product Code: N/A
- 1.2 Recommended Use:** Epoxy Accelerator
- 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	1
Serious eye damage/eye irritation	1
Skin Sensitization	1

- 2.2 Label Elements**



Signal word

Danger

H-code	Hazard Statements
H314	Causes severe skin burns and eye damage
H317	May cause allergic skin reaction
P-Code	Precautionary Statement - Prevention
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves / protective clothing / eye protection / face protection
P-Code	Precautionary Statement - Response
P305, P351,	If in eyes: Rinse cautiously with water for several minutes.

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P338, P310	Remove contact lenses, if present and easy to do so. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
P303, P361, P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P333, P313	If skin irritation or rash occurs: Get medical advice/ attention.
P304, P340, P310	If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P301, P330, P331	If swallowed: Rinse mouth. Do not induce vomiting.
P363	Wash contaminated clothing before reuse.
P-Code	Precautionary Statement - Storage
	Store 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

See section below for Mixtures

3.2 Mixtures

CAS No.	Material	Content %
90-72-2	2,4,6 Tris(dimethylaminomethyl)phenol	>60%

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 respiration if necessary. First aid personnel should pay attention to the own safety.

Ingestion:

IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. For advice, contact a Poisons Information Centre or a doctor. Urgent hospital treatment is likely to be needed. In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition. If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist. If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.

Inhalation:

Keep patient calm and remove to fresh air. If not breathing or if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Transport to hospital, or doctor. Exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints

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or symptoms, avoid further exposure.

Eye Contact:

While holding eyes open, gently flood with plenty of fresh water for 15 minutes. Washing within one minute is essential to achieve maximum effectiveness. Immediate medical attention required. 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. Remove contaminated clothing including footwear.

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| 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

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| 5.1 | Extinguishing media | <p>Suitable extinguishing media:
Water fog or fine spray, dry chemical powder, foam, BCF (where regulations permit). Alcohols resistant foams are preferred. Protein foams may function but will be less effective.</p> <p>Unsuitable extinguishing media that may not be used for safety reasons:
None known</p> |
| 5.2 | Special hazards arising from the substance or mixture | Oxides of carbon and other possibly toxic fumes 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 (CO ₂), phenolics products typical of burning organic material. Closed containers may rupture due to pressure buildup under fire conditions. |

SECTION 6 – ACCIDENTAL RELEASE MEASURES

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| 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.
- 7.2 Conditions for safe storage** **Storage Requirements:**
 Store in a cool, dry and well-ventilated place.
Temperature Conditions:
 Up to 40° C
Protection from weather:
 Store undercover and away from frost and moisture
- 7.3 Specific end use(s)** Used to accelerate epoxy reaction.
- 7.4 Regulations and standards (Australia):** Classified as a Hazardous and dangerous 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. Remove contaminated, soaked clothing immediately.

Personal protection equipment:
Respiratory protection
 Generally, not required however if ventilation is inadequate respiratory protection should be worn e.g. type A-P organic filter respirator of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent). In high vapour concentrations or if the respirator is the sole means of protection or in a suspected oxygen-deficient atmospheres such as empty vessels or confined spaces, use air-supplied full-face or hood and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Eye protection
 Appropriate safety glasses or chemical goggles.
Hand protection
 When handling liquid-grade epoxy resins wear chemically protective gloves (e.g nitrile, 0.11mm thick breakthrough time 480min). Do NOT use cotton or leather (which absorb).
Skin protection
 Overalls clothing or long sleeve shirt and long pants.
Other Information
 Always wash hands before smoking, eating, drinking or using the toilet and after finishing work. Observe the usual precautions when handling chemicals.

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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.
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SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

9.1	Odour:	amine-like
	Odour Threshold	Not determined
	Colour:	Clear Light Yellow
	Physical State:	Viscosity Liquid
	Flash Point:	124 °C Closed Cup
	Boiling Point:	>130 °C
	Melting Point:	< -20 °C
	Specific Gravity:	0.95 – 1.00
	pH:	Not determined
	Solubility in Water (g/L):	850 g/l at 20 °C
	Flammability:	Not flammable
	Lower Limit:	Not determined
	Higher Limit:	Not determined
	Vapour Pressure:	>= 0.1 hPa at 25 °C
	Vapour Density (Air = 1)	9.16
	Partition coefficient: noctanol/ water	log Pow: -0.659
	Auto-ignition temperature	382 °C
	Decomposition temperature	Not determined
	Viscosity	Not determined
	Explosive properties	Not determined
	Oxidizing properties	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.
10.5	Incompatible materials	Keep away from oxidizing agents, acids and alkalis and oxidizers.
10.6	Hazardous decomposition products	Oxides of carbon and other possibly toxic fumes from fire.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity/Effects

Acute toxicity
LD50 Oral - Rat - male and female - 2,169 mg/kg
(OECD Test Guideline 401)

Serious skin damage/eye irritation
Skin - Rabbit

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Result: Corrosive - 4 h
(OECD Test Guideline 404)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Corrosive

Sensitization
Maximisation Test (GPMT) - Guinea pig
Result: The product is a skin sensitiser, sub-category 1B.
(OECD Test Guideline 406)

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

Chronic Toxicity/Effects

Germ cell mutagenicity
No data available

Ames test
S. typhimurium
Result: negative

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

Acute toxicity in fish
LC50 - Cyprinus carpio (Carp) - 175 mg/l - 96 h

Toxicity to algae static test
EC50 - Desmodesmus subspicatus (Scenedesmus subspicatus) – 84 mg/l - 72 h
(OECD Test Guideline 201)

Microorganisms/Effect on sludge

No Data Available

Persistence and degradability

aerobic - Exposure time 28 d
Result: 4 % - Not readily biodegradable.
(OECD Test Guideline 301D)

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Bioaccumulative potential	<i>Bioaccumulation:</i> Bioconcentration potential is low (BCF < 100 or Log Pow < 3). Partition coefficient: Log Pow -1.66 to -1.4
Mobility in soil	No Data Available
Additional Information	Do NOT discharge into sewer or waterways.

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.
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SECTION 14 – TRANSPORT INFORMATION

Transport Information	Not classified as a Dangerous Good according to the Australian Code for the Transportation of Dangerous Goods by Road and Rail. U.N. Number: 2735 DG Class: 8 EPG card: N/A Hazchem Code: 3Z Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (2,4,6-Tris(dimethylaminomethyl)phenol) Packing Group: II
Classification for SEA transport (IMO-IMDG)	U.N. Number: 2735 DG Class: 8 Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (2,4,6-Tris(dimethylaminomethyl)phenol) Packing Group: II Marine Pollutant: No
Classification for AIR transport (IATA/ICAO)	U.N. Number: 2735 DG Class: 8 Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (2,4,6-Tris(dimethylaminomethyl)phenol) Packing Group: II
Label	



SECTION 15 – REGULATORY INFORMATION

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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.
Australian Inventory:	Listed
Controlled Schedule	Not listed substances
Carcinogenic Substances:	
	Poisons Schedule Number: N/A

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.

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