

# SAFETY DATA SHEETS (SDS)

## Enviro Ultra Tuff Part A

Version: 5

Issued by: Envirosystems

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Hazard Identifiers



## SECTION 1 – IDENTIFICATION OF MATERIAL & SUPPLIER

- 1.1 Product Name:** Enviro Ultra Tuff Part A  
**Manufacturer's Product Code:** N/A
- 1.2 Recommended Use:** Part A of a two component (plus colour-pack) epoxy coating
- 1.3 Company:** Envirosystems  
**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:** 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	2A
Skin Sensitization	1
Aquatic Chronic	2

- 2.2 Label Elements**



Signal word

Warning

H-code	Hazard Statements
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H317	May cause allergic skin reaction
H411	Toxic to aquatic life with long lasting effects
P-Code	Precautionary Statement - Prevention

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
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
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
<b>P-Code</b>	<b>Precautionary Statement - Response</b>
P362	Take off contaminated clothing and wash before reuse
P363	Wash contaminated clothing 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.
P304, P340	If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P301, P310, P331	If swallowed: Rinse mouth. Immediately call a POISON CENTER or doctor/ physician. Do not induce vomiting.
P370 , P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
<b>P-Code</b>	<b>Precautionary Statement - Storage</b>
	Store locked up in a cool well-ventilated area
<b>P-Code</b>	<b>Precautionary Statement - Disposal</b>
P501	Dispose of contents/ container to an approved waste disposal plant. In accordance with local regulation

**2.3 Other Hazards**

Sanding cured material could release respirable crystalline silica

**SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substances**

See section below for Mixtures

**3.2 Mixtures**

CAS No.	Material	Content %
9003-36-5	Epoxy resin	25-55%
3101-60-8	Epoxy resin	1-10%
Non-hazardous ingredients or those not affecting classification to 100%		

**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 personal should pay attention to the own safety.

**Ingestion:**

Do NOT induce vomiting. Call a doctor and/or transport to a hospital promptly. Never give anything by mouth to an unconscious person. Rinse mouth with water. 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 prompt 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.

- |            |  |  |
|------------|--|--|
| <b>4.2</b> | <b>Most important symptoms and effects, both acute and delayed</b> | Any relevant information can be found in other parts of this section and in sections 2 and 11. |
| <b>4.3</b> | <b>Advice for doctor</b>   | Treat symptomatically.   |

## SECTION 5 – FIRE FIGHTING MEASURES

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|------------|--|--|
| <b>5.1</b> | <b>Extinguishing media</b>                                   | <p>Suitable extinguishing media:<br/>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.</p> <p>Unsuitable extinguishing media that may not be used for safety reasons:<br/>Do not use direct water stream as it might spread the fire.</p>  |
| <b>5.2</b> | <b>Special hazards arising from the substance or mixture</b> | Oxides of carbon and other possibly toxic fumes (phenolis) from fire.  |
| <b>5.3</b> | <b>Advice for firefighters</b>                               | 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 <sub>2</sub> ), 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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|------------|--|--|
| <b>6.1</b> | <b>Personal precautions, protective equipment and emergency procedures</b> | 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. |
| <b>6.2</b> | <b>Environmental precautions</b>   | Do not discharge into sewers or waterways and soil.  |
| <b>6.3</b> | <b>Methods and material for containment and cleaning up</b>                | 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.                   |
| <b>6.4</b> | <b>Reference to other sections</b>   | 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.

Since this is in a liquid form when applied there is **no risk from silica, however** sometimes with general use of the product it may be sanded after it has cured and solid. Respiratory protection must be worn as this product contains silica which is a health hazard. It may cause cancer or causes damage to organs through prolonged or repeated exposure by inhaled.

**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 40° C **Protection from weather:** Store undercover and away from frost and moisture

**7.3 Specific end use(s)** Once mixed with part 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

**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* A/P2 Filter of sufficient capacity if ventilation is inadequate. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent). 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. Since this is in a liquid form when applied there is no risk from silica, however sometimes

with general use of the product it may be sanded after it has cured and solid. Respiratory protection must be worn as this product contains silica which is a health hazard. It may cause cancer or causes damage to organs through prolonged or repeated exposure by inhaled.

*Eye protection*

Chemical goggles. Full face respiratory may be required if exposure causes discomfort.

*Hand protection*

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Butyl rubber, BR

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.5$  mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application. *Skin protection*

*Skin protection*

Overalls clothing, P.V.C. apron.

*Other Information*

No Additional Information

**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**

<b>9.1</b>	<b>Odour:</b>	Not determined
	<b>Odour Threshold</b>	Not determined
	<b>Colour:</b>	Neutral
	<b>Physical State:</b>	Low Viscosity Liquid
	<b>Flash Point:</b>	>100°C PMCC
	<b>Boiling Point:</b>	Not determined
	<b>Melting Point:</b>	Not determined
	<b>Specific Gravity:</b>	2.06
	<b>pH (5% solution):</b>	Not determined
	<b>Solubility in Water (g/L):</b>	Insoluble
	<b>Flammability:</b>	
	<b>Lower Limit:</b>	Not determined
	<b>Higher Limit:</b>	Not determined
	<b>Vapour Pressure:</b>	<0.01
	<b>Vapour Density (Air = 1)</b>	Not determined
<b>9.2</b>	<b>Other information</b>	None available

**SECTION 10 – STABILITY AND REACTIVITY**

<b>10.1 -3</b>	<b>Reactivity; Chemical stability; Possibility of hazardous reactions</b>	If stored and handled in accordance with standard industrial practices not hazardous reactions are known. Unstable in the present of incompatible material.
<b>10.4</b>	<b>Conditions to avoid</b>	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

#### Enviro Ultra Tuff Part A:

##### *Acute oral toxicity*

LD50 > 5,000 mg/kg (rat) epoxy resin – CAS 9003-36-5

##### *Acute dermal toxicity*

LD50 > 2,000 mg/kg (rabbit) epoxy resin - CAS 9003-36-5

##### *Acute inhalation toxicity*

No Data Available

##### *Skin corrosion/irritation*

Irritant to skin and mucus membranes.

##### *Serious eye damage/eye irritation*

May cause serious eye irritation

##### *Sensitization*

Product may be a skin sensitizer in some individuals.

### Chronic Toxicity/Effects

#### Enviro Epoxy Ultra Tuff part A:

##### *Specific target organ systematic toxicity (single exposure)*

No data available

##### *Specific target organ systematic toxicity (repeated exposure)*

Not Classified

NOAEL (oral, rat, 90 days) ≈ 250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)– CAS 9003-36-5

##### *Genetic toxicity*

No data available

##### *Carcinogenicity*

No data available

##### *Reproductive toxicity*

No data available

##### *Teratogenicity*

No data available

##### *Aspiration Hazard*

Not Classified

#### **Silica:**

Since this is in a liquid form when applied there is no risk from silica, however sometimes with general use of the product it may be sanded after it has cured and solid. Respiratory protection must be worn as this product contains silica which is a health hazard. It may cause cancer or causes damage to organs through prolonged or repeated exposure by inhalation.

**Long Term Effects:** No new information.

## SECTION 12 – ECOLOGICAL INFORMATION

<b>Toxicity</b>	<b>CAS 9003-36-5 Epoxy Resin:</b> <i>Acute toxicity in fish</i> LC50 Leuciscus idus, 5.7mg/l LC50, Onorhynchus mykiss (rainbow trout), > 1000 mg/l  <i>Acute toxicity to aquatic invertebrates</i> EC50, Daphnia magna (water flea), 3.5mg/l  <i>Chronic toxicity to aquatic invertebrates</i> LOEC (chronic) 1 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC (chronic) 0.3 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
<b>Microorganisms/Effect on sludge</b>	No available information
<b>Persistence and degradability</b>	No available information
<b>Bioaccumulative potential</b>	<i>No available information</i>
<b>Mobility in soil</b>	No available information
<b>Additional Information</b>	Do NOT discharge into sewer or waterways. Toxic to the environment with long lasting affects

## SECTION 13 – DISPOSAL CONSIDERATIONS

<b>13.1 Waste treatment methods</b>	<b>Material Recommendation:</b> 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.  <b>Uncleaned packaging Recommendation:</b> 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

<b>Transport Information</b>	Not Classified as a Dangerous Good according to the Australian Code for the Transportation of Dangerous Goods by Road and Rail.  Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in; (a) packagings; (b) IBCs; or (c) any other receptacle not exceeding 500 kg(L). - Australian Special Provisions (SP AU01) - ADG Code 7th Ed.
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# SAFETY DATA SHEETS (SDS)

## Enviro Ultra Tuff Part A

U.N. Number: UN 3082  
DG Class: 9  
EPG card: N/A  
Hazchem Code: 3Y  
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.(Contains Epoxy Resin)  
Packing Group: III

### Classification for SEA transport (IMO-IMDG)

U.N. Number: UN 3082  
DG Class: 9  
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.(Contains Epoxy Resin)  
Packing Group: III  
EMS Number: F –A, S –F  
Marine Pollutant: Yes epoxy resin

### Classification for AIR transport (IATA/ICAO)

U.N. Number: UN 3082  
DG Class: 9  
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.(Contains Epoxy Resin)  
Packing Group: III

Label



## SECTION 15 – REGULATORY INFORMATION

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
**Australian Inventory: Controlled Schedule Carcinogenic Substances:**

National and local regulations must be observed. For information on labeling please refer to section 2 of this document.

**Poisons Schedule Number: N/A**

Listed  
Not listed 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](http://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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**SAFETY DATA SHEETS (SDS)**  
**Enviro Ultra Tuff Part A**



Emergency Telephone: Poisons Centre – 13112