

SAFETY DATA SHEETS (SDS)

Enviroseal SB



Version: 1

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Hazard Identifiers



SECTION 1 – IDENTIFICATION OF MATERIAL & SUPPLIER

Product Name: Enviroseal SB
Manufacturer's Product Code: N/A
Recommended Use: Sealer
Company: Envirosystems Technologies
Address: 295 Princes Highway St Peters, NSW 2044.
Website: www.envirosystems.com.au
Telephone: +61 2 85958699 (business hours)
Emergency Telephone: Info Safe – 1800 638 556, Poisons Centre – 131126
Fax: +61 2 85958660

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

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
Flammable Liquids	3
Acute Toxicity, inhalation	4
Skin Corrosion/Irritation	2
Serious eye damage/eye irritation	2
Specific target organ toxicity (single exposure)	2 respiratory
Specific target organ toxicity (repeated exposure) inhalation	2 central nervous system, liver, kidney
Aspiration hazard	1

Label elements



Signal Word

Danger

H-code	Hazard Statements
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation
H332	Harmful if inhaled.

SAFETY DATA SHEETS (SDS)

Enviroseal SB



H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure
H373	May cause damage to organs (Central nervous system, Liver, Kidney) through prolonged or repeated exposure if inhaled.
P-Code	Precautionary Statement - Prevention
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P280	Wear protective gloves / protective clothing / eye protection / face protection
P-Code	Precautionary Statement - Prevention
P303, P361, P353	If on skin or hair: Take off immediately all contaminated clothing. Rinse skin with water / shower.
P304, P340	If inhaled: Remove person to fresh air and keep comfortable for breathing.
P301, P310	If swallowed: Rinse mouth. Do not induce vomiting. Immediately call poison center or doctor
P314	Get Medical advice / attention if you feel unwell.
P331	Do NOT induce vomiting.
P337, P313	If eye irritation persists: Get medical advice/ attention.
P370, P378	In case of fire: Use dry sand, dry chemical or alcohol resistant foam to Extinguish.
P-Code	Precautionary Statement - Storage
P404, P233	Store in a well-ventilated place. Keep container tightly closed.
P-Code	Precautionary Statement - Disposal
P501	Dispose of contents / containers to hazardous or special waste collection point. In accordance with local regulation

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Name:	CAS No:	Proportion:
Xylene Mixture of isomers	1330-20-7	>60%
Ethylbenzene	100-41-4	10-30%
Solvent naphtha (petroleum), light aromatic	64742-95-6	5-15%

SECTION 4 – FIRST AID MEASURES

General Advice

Consult a doctor. Show this safety data sheet to the doctor in attendance.

Ingestion:

Do not induce vomiting. Wash mouth with water and seek medical attention immediately. If vomiting occurs, lean patient forward or place on left side (head down position, if possible) to maintain open airway and prevent aspiration.

Inhalation:

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a doctor.

Eye Contact:

While holding eyes open, gently flood with plenty of fresh water for at least 15 minutes and seek medical attention. 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. Flush contacted area thoroughly with soap and plenty of water. Seek medical attention.

SAFETY DATA SHEETS (SDS)

Enviroseal SB



Notes to Physician: Treat symptomatically. The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

First Aid Facilities: Ensure availability of clean water for eye/skin wash.

SECTION 5 – FIRE FIGHTING MEASURES

Clear fire of all non-emergency personnel

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific Fire/Explosion Hazard: Oxides of carbon and other possibly toxic fumes from fire.

Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary. Full protective clothing as per personal protection in section 8.

Hazchem Code: 3[Y]

Additional Advice: Keep adjacent containers cool by spraying with water.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills and Disposal: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all ignition sources. For major spills alert Fire Brigade and tell them location and nature of hazard. Clear area of personnel and move upwind. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8. Disposal of this material should be undertaken by a registered chemical disposal company.

Environmental Precautions: Do not discharge into sewers or waterways.

Methods and materials for containment and cleaning up: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13)

Reference to other sections: Section 13 for disposal

SECTION 7 – HANDLING & STORAGE

Procedures for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.

Conditions for safe storage: Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class 3 Flammable liquids.

Specific end use(s): Solvent based sealer

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

National occupational exposure limits:	Material	TWA ppm	STEL ppm
	Ethylbenzene	100	125
	Xylene	80	150

Engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation system may be required. Ventilation

SAFETY DATA SHEETS (SDS)

Enviroseal SB



equipment should be explosion resistant.

Personal Protection:

Eye: Chemical goggles or face shield to protect eyes. Use equipment for eye protection tested and approved under appropriate government standards

Body: Overalls clothing. Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hands: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min

Respiratory: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Odour:	Aromatic
Colour:	Clear
Physical State:	Liquid
Flash Point:	27 °C
Boiling Point:	136 - 145 °C - lit.
Melting Point:	-48°C
Specific Gravity:	0.85
pH:	No Data
Solubility in Water (g/L):	Insoluble
Flammability:	
Lower Limit:	1% V
Higher Limit:	7.1% V
Vapour Pressure:	5.2kPa
Vapour Density (Air = 1)	3.7

SECTION 10 – STABILITY AND REACTIVITY

Reactivity	No Data
Chemical Stability:	This material is thermally stable when stored and used as directed.
Possibility of hazardous reactions	No Data
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Prevent vapor accumulation.
Incompatible Materials:	Keep away from oxidizing agents.
Hazardous Decomposition Products:	Oxides of carbon and nitrogen, smoke and other toxic fumes.

SECTION 11 – TOXICOLOGICAL INFORMATION

SAFETY DATA SHEETS (SDS)

Enviroseal SB



Acute Health Effects:

Oral:	Xylene = 3500 mg/kg (Rat) Solvent naphtha (petroleum), light aromatic = 8400 mg/kg (Rat) Ethylbenzene = 3500 mg/kg (Rat)
Dermal:	Ethylbenzene = 15400 mg/kg (Rabbit)
Inhalation	Xylene = 29.08 mg/L (Rat) 4 h Solvent naphtha (petroleum), light aromatic = 3400 ppm (Rat) 4 h Ethylbenzene = 17.2 mg/L (Rat) 4 h
Irritation:	
Skin:	Classification based on individual ingredients of the mixture. Irritating to skin.
Eye:	Classification based on individual ingredients of the mixture. Irritating to eyes.
Respiratory or skin sensitization:	No Data available
Carcinogenicity:	IARC: 2B - Group 2B: Possibly carcinogenic to humans (Ethylbenzene) IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Xylene)
Reproductive toxicity/Teratogenicity:	No Data available
STOT evaluation – one-time exposure:	May cause respiratory irritation. May cause drowsiness or dizziness.
STOT evaluation – repeated exposure:	Causes damage to organs through prolonged or repeated exposure.
Aspiration Hazard:	No Data available
Additional Information:	RTECS: Not available To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity:

Xylene

Fish
13.4 mg/L LC50 96 h Pimephales promelas flow-through
13.5 - 17.3 mg/L LC50 96 h Oncorhynchus mykiss
13.1 - 16.5 mg/L LC50 96 h Lepomis macrochirus flow-through
23.53 - 29.97 mg/L LC50 96 h Pimephales promelas static
19 mg/L LC50 96 h Lepomis macrochirus
2.661 - 4.093 mg/L LC50 96 h Oncorhynchus mykiss static
30.26 - 40.75 mg/L LC50 96 h Poecilia reticulata static
780 mg/L LC50 96 h Cyprinus carpio semi-static
780 mg/L LC50 96 h Cyprinus carpio
7.711 - 9.591 mg/L LC50 96 h Lepomis macrochirus static
Crustacea
3.82 mg/L EC50 48 h water flea
0.6 mg/L LC50 48 h Gammarus lacustris

Solvent naphtha (petroleum), light aromatic

Fish
9.22 mg/L LC50 96 h Oncorhynchus mykiss
Crustacea
6.14 mg/L EC50 48 h Daphnia magna

Ethylbenzene

SAFETY DATA SHEETS (SDS)

Enviroseal SB



Fish
11.0 - 18.0 mg/L LC50 96 h Oncorhynchus mykiss static
7.55 - 11 mg/L LC50 96 h Pimephales promelas flow-through
9.1 - 15.6 mg/L LC50 96 h Pimephales promelas static
9.6 mg/L LC50 96 h Poecilia reticulata static
4.2 mg/L LC50 96 h Oncorhynchus mykiss semi-static
32 mg/L LC50 96 h Lepomis macrochirus static
Crustacea
1.8 - 2.4 mg/L EC50 48 h Daphnia magna
Algae/aquatic plants
438 mg/L EC50 96 h Pseudokirchneriella subcapitata
4.6 mg/L EC50 72 h Pseudokirchneriella subcapitata
1.7 - 7.6 mg/L EC50 96 h Pseudokirchneriella subcapitata static
2.6 - 11.3 mg/L EC50 72 h Pseudokirchneriella subcapitata static

Persistence/Degradability:	No Data available.
Bioaccumulative potential:	Partition coefficient Xylene = 3.15 Ethylbenzene = 3.118
Mobility:	No data available
Results of PBT and vPvB assessment	No data available
Other adverse effects:	Xylene: Toxic to aquatic life.

SECTION 13 – DISPOSAL CONSIDERATIONS

Material Disposal:	State/Territory authority: Observe all Federal, State and Local Regulations Disposal: Secure landfill. Precautions for clean-up crew: Full protective clothing as per personal protect. in section 8 Containers may still present a chemical hazard/danger when empty.
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SECTION 14 – TRANSPORT INFORMATION

U.N. Number:	1866
DG Class:	3
Hazchem Code:	3[Y]
Proper Shipping Name:	Resin solution 3, III, (27°C c.c.)
Packing Group:	III
EmS-No	F-E, S-E
Poison Schedule:	6
Environmental Hazard	Yes



SECTION 15 – REGULATORY INFORMATION

Australian Inventory (AICS):	Listed
SUSDP Schedule	None
Regulations:	All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

SAFETY DATA SHEETS (SDS)

Enviroseal SB



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.enviro@systems.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 – 131126