

SAFETY DATA SHEETS (SDS)

Enviro Thinner No.1



Version: 5

Issued by: Envirosystems Technologies

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Hazard Identifiers



SECTION 1 – IDENTIFICATION OF MATERIAL & SUPPLIER

Product Name: Enviro Thinner No.1
Manufacturer's Product Code: N/A
Recommended Use: Solvent thinner
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.

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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	>80%
Ethylbenzene	100-41-4	<20%

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.

Notes to Physician:

Treat symptomatically. The most important known symptoms and effects are described in

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First Aid Facilities: the labelling (see section 2) and/or in section 11
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) A thinner for some types of membranes

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 equipment should be explosion resistant.

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Personal Protection:

Eye: Chemical goggles or safety glasses with side shields to protect eyes. Use equipment for eye protection tested and approved under appropriate government standards

Body: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. For small amounts a long sleeve shirt and full length pants should be sufficient. Take care to make sure no static build up occurs.

Hands: Handle with gloves. Gloves must be checked 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. Wash and dry hands.

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

Full contact
Material: Viton/Butyl glove
Minimum layer thickness: 0.7 mm
Break through time: >480 min

Respiratory: None should be needed if engineering, storage and handling controls are adequate to ensure that atmospheric contamination is kept below the Exposure Standard. Where vapour concentrations are likely to or exceed the Exposure Standard, an approved organic vapour respirator (AS/NZS 1715 and 1716) must be worn. 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).

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Odour:	No Data
Colour:	Clear
Physical State:	Liquid
Flash Point:	25 °C - closed cup
Boiling Point:	137 - 140 °C - lit.
Melting Point:	<0°C
Specific Gravity:	1.00
pH:	No Data
Solubility in Water (g/L):	No Data
Flammability:	
Lower Limit:	1.1% V
Higher Limit:	7% V
Vapour Pressure:	24 hPa at 37.70 °C
Vapour Density (Air = 1)	3.67 - (Air = 1.0)

SECTION 10 – STABILITY AND REACTIVITY

Reactivity No Data

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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

Acute Health Effects:

Oral:	Ethylbenzene LD50 oral rat 3500 mg/kg Xylenes (o-, m-, p- isomers) LD50 oral rat 4300 mg/kg
Dermal:	Ethylbenzene LD50 dermal rabbit 15354 mg/kg Xylenes (o-, m-, p- isomers) LD50 dermal rabbit >= 4200 mg/kg
Inhalation	Ethylbenzene LC50 inhalation rat 17.2 mg/l/4h Xylenes (o-, m-, p- isomers) LC50 inhalation rat 21.7 mg/l/4h as a vapor
Irritation:	
Skin:	Harmful in contact with skin. Causes irritation to the skin. This irritation can result in redness and swelling of the skin. Repeat contact with the skin may cause it to become dry and cracked.
Eyes:	Causes eye irritation. This irritation can result in redness and swelling of the eyes
Primary mucosa:	No Data available.
Respiratory or skin sensitization:	Not a skin sensitiser
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 drowsiness or dizziness. May cause respiratory irritation.
STOT evaluation – repeated exposure:	May cause damage to organs (Central nervous system, Liver, Kidney) through prolonged or repeated exposure if inhaled.
Aspiration Hazard:	Yes. May be fatal if swallowed and enters airways
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:	Ethylbenzene LC50 fish 1 11.0 - 18.0 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) EC50 Daphnia 1 1.8 - 2.4 mg/l (Exposure time: 48 h - Species: Daphnia magna) EC50 other aquatic organisms 1 4.6 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata) LC50 fish 2 4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static]) EC50 other aquatic organisms 2 > 438 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata). Xylenes (o-, m-, p- isomers)
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LC50 fish 1 13.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1 3.82 mg/l (Exposure time: 48 h - Species: water flea)
LC50 fish 2 2.661 - 4.093 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 2 0.6 mg/l (Exposure time: 48 h - Species: Gammarus lacustris)

Persistence/Degradability:	Ethylbenzene BCF fish 1 15 Log Pow 3.118 Xylenes (o-, m-, p- isomers) BCF fish 1 0.6 - 15 Log Pow 2.77 - 3.15
Bioaccumulative potential:	No Data available.
Mobility:	No data available
Results of PBT and vPvB assessment	No data available
Other adverse effects:	Harmful to aquatic life. Do NOT let product reach waterways, drains and sewers.

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:	1307
DG Class:	3
Hazchem Code:	3[Y]
Proper Shipping Name:	Xylenes, Flammable
Packing Group:	III
Poison Schedule:	6
Environmental Hazard	No
IMDG EMS Fire:	F-E
IMDG EMS Spill:	S-D



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).

SECTION 16 – OTHER INFORMATION

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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 – 131126