

# SAFETY DATA SHEET

Product: Epigen Diluent Page 1 of 3 Date of Issue: January 2007

Hazardous according to criteria of Worksafe Australia

## 1 PRODUCT & COMPANY UNDERTAKING IDENTIFICATION

Product Name: EPIGEN DILUENT  
Major Recommended Use: Thinners and cleanup solvent for Epigen products  
Company: Peerless Industrial Systems Pty Ltd  
ABN: 14 097 615 391  
Address: PO Box 407 Cloverdale WA 6985 AUSTRALIA  
Telephone Number: 61 (08) 9477 3788  
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Email: service@peerlessindustrialsystems.com

## 2 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion	Classification
Xylene	1330-20-7	<95%	R20/21 R38
Methyl Ethyl Ketone	78-93-3	<15%	R36/37
Description	Solvent Mixture		

## 3 HAZARDS IDENTIFICATION

Harmful by inhalation and in contact with skin (R20/21). May cause sensitisation by skin contact (R43). Irritating to eyes, respiratory system and skin (R36/37/38).

**SUSDP:** 5

**ADG CLASS:** 3 , packaging group III

**Signs and Symptoms of Exposure (Acute effects):**

**Swallowed:** Ingestion may cause: severe gastrointestinal irritation, headache, nausea, vomiting. Small amount of liquid aspirated into respiratory system during ingestion or vomiting may cause bronchopneumonia or pulmonary edema.

**Eye:** Contact with eyes can cause mild irritation and discomfort, and may cause conjunctivitis and corneal edema when absorbed into the tissue of the eye from the atmosphere. Corneal edema may give rise to a perception of blue haze or fog around lights. This effect is transient and has no known residual effect.

**Skin:** Irritating to skin. Absorption through skin may occur resulting in harmful effects or illness. Prolonged and repeated contact may result in skin sensitisation and dermatitis due to defatting.

**Inhaled:** Prolonged inhalation may result in respiratory irritation, dizziness, nausea, and loss of consciousness.

**Chronic:** Repeated and/or prolonged exposures may result in: adverse skin effects (defatting, rash or allergic reaction/sensitisation), adverse eye effects (conjunctivitis) and temporary liver or kidney damage.

## 4 FIRST AID MEASURES

**Swallowed:** Administer 3-4 glasses of milk or water and seek medical advice immediately. Do not induce vomiting.

**Eye:** Immediately flush with plenty of water for at least 15 minutes. Retract eyelids often. Seek medical advice.

**Skin:** Remove any contaminated clothing and product. Wash skin thoroughly with mild soap/water. Seek medical advice if ill effect or irritation develops.

**Inhaled:** Move patient to fresh air. Give oxygen or artificial respiration if breathing has stopped or is laboured. Seek medical advice.

**First Aid Facilities:** Eyewash fountains and safety showers should be available for emergency use.

**Advice to Doctor:** Remove stomach contents by gastric suction with caution. Material if aspirated into lungs may cause chemical pneumonia. Ingredients may be corrosive to some body tissues therefore secondary treatment considerations will be required.

**5 FIRE FIGHTING MEASURES**

**Suitable Extinguishing Media:** Ignition will give rise to a Class B fire. In case of large fire use: water spray, alcohol foam. In case of small fire use: carbon dioxide (CO<sub>2</sub>), dry chemical, dry sand or limestone.

**Special Exposure Hazards (fire fighting):** May generate toxic, irritating or flammable combustion products. Sudden reaction with fire may result if product is mixed with an oxidising agent. May generate carbon monoxide gas. Personnel in vicinity and downwind should be evacuated.

**Special Fire Fighting Procedures:** Firefighters should wear butyl rubber boots, gloves, and body suit and a self contained breathing apparatus. Water spray should be used to cool intact drums. Prevent runoff from fire control entering waterways.

**6 ACCIDENTAL RELEASE MEASURES**

**Precautions:** Eliminate all sources of ignition. Wear protective clothing, boots, gloves, and eye protection.

**Methods for Cleaning Up:** If recovery is not feasible, admix with dry soil, sand or non reactive absorbent and place in an appropriate chemical waste container. Transfer to containers by suction, preparatory for later disposal. Flush area with water spray. Clean up personnel must be equipped with self contained breathing apparatus and butyl rubber protective clothing. For large spills, recover spilled material with vacuum truck.

**7 HANDLING & STORAGE**

**Handling:** Avoid contact with skin or eyes. When handling, do not eat, drink, or smoke.

**Storage:** Keep away from oxidisers. Keep in cool, dry ventilated storage and in closed containers.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Standards:** For Xylene 80ppm TWA. For Methyl Ethyl Ketone 150ppm TWA.

**Engineering Controls:** Conventional airflow is generally considered to be acceptable. In confined areas, explosion proof exhaust fans or an approved organic respirator must be used.

**Hand Protection:** Chemical/solvent resistant gloves must be used.

**Eye Protection:** Splash proof eye goggles.

**Skin Protection:** Long sleeved clothing.

**Flammability:** Flammable

**9 PHYSICAL & CHEMICAL PROPERTIES**

Appearance:	Clear thin liquid
Smell:	Solvent
pH:	No data
Boiling Point (@760mm Hg):	> 79°C
Melting Point:	No data
Flashpoint (°C):	Xylene 27°C, Methyl Ethyl Ketone -4°C, Closed Cup
Flammability:	Flammable
Ignition Temperature:	No data
Explosive Properties:	No data
Explosive Limits:	No data
Oxidising Properties:	No data
Vapour Pressure (mm Hg):	< 8 @ 20°C
Vapour Density:	No data
Solubility in Water:	Insoluble
Solubility in Ethanol:	No data
Solubility in n-Octanol:	No data
Partition Coefficient n-Octanol/Water	No data
Specific Gravity:	0.85
Per cent Volatiles:	100%
Volatile Organic Compounds:	< 100%

**10 STABILITY & REACTIVITY**

**Conditions to Avoid:** Heat, sparks, flames.

**Incompatibility (Materials to Avoid):** Oxidising agents, Sodium or Calcium Hypochlorite. Reaction with peroxides may result in violent decomposition.

**Hazardous Decomposition Products:** Carbon Monoxide, Carbon Dioxide in a fire. Irritating and toxic fumes at elevated temperatures.

**Hazardous Transformation Products:** Will not occur.

**11 TOXICOLOGICAL INFORMATION**

**Acute Oral Toxicity (LD50, rat):** No data.

**Acute Dermal Toxicity (LD50, rabbit):** No data.

**Acute Inhalation Toxicity (LC50, rat):** No data.

**12 ECOLOGICAL INFORMATION**

**Ecotoxicity:** No data for product. Xylene is toxic to fish and wildlife.

**Environmental Fate:** No data.

**13 DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local and national regulations. Wear protective clothing during disposal operations. If disposal by a waste contractor, make sure that he has sufficient information and that waste containers are properly labelled.

Where disposal of surplus stock is required, Cure as per use directions to enable possible disposal by conventional waste disposal techniques

**14 TRANSPORT INFORMATION**

**ADR/RID Shipping Data:** 1993 Flammable Liquid n.o.s.

**IMO Shipping Data:** Refer to Bill of Lading.

**ICAO/IATA Shipping Data:** Flammable Liquid n.o.s // 3 // UN1993 // II

**15 REGULATORY INFORMATION**

**EEC Symbol:** Harmful (Xn)

**EEC Council Directives relating to the classification, packaging and labelling of dangerous substances and preparations Risk (R) and Safety (S) phrases:** May cause sensitisation by skin contact (R43). Irritating to eyes, respiratory system and skin (R36/37/38). Harmful by inhalation and in contact with skin (R20/21).

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26). Wear suitable protective clothing and gloves (S36/37).

**16 OTHER INFORMATION**

This Safety Data Sheet has been written to comply with Directives 93/112/EEC and 88/379/EEC

Intended Use: Epoxy Resin for Curing Agent

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