

SAFETY DATA SHEET

Product: Epigen Diluent Page 1 of 7 Date of Issue: December 2016

Hazardous according to criteria of Worksafe Australia

1 PRODUCT & COMPANY UNDERTAKING IDENTIFICATION

Product Name: EPIGEN DILUENT
Product Code: EADL
Major Recommended Use: Thinners and cleanup solvent.
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
Fax Number: 61 (08) 9477 3766
Email: service@peerlessindustrialsystems.com
Emergency Telephone Number: 13 11 26

2 HAZARDS IDENTIFICATION

GHS Classification Acute Toxicity (Oral) Category 4,
Acute Toxicity (Dermal) Category 4,
Skin Corrosion/Irritation Category 2,
Eye Irritation Category 2A,
Reproductive Toxicity Category 2,
Specific target organ toxicity - repeated exposure Category 2,
Acute Aquatic Hazard Category 2,
Acute Vertebrate Hazard Category 3,
Flammable Liquid Category 3,
Acute Toxicity (Inhalation) Category 5

GHS Label Element

Hazard pictograms:



Signal Word: Warning

Hazard statements: H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs.
H401 Toxic to aquatic life
H433 Harmful to terrestrial vertebrates
H226 Flammable liquid and vapour.
H333 May be harmful if inhaled

Precautionary statements: P103 Read label before use
P201 Obtain special instructions before use
P202 Do not handle until all safety precautions have been read and understood
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash skin thoroughly after handling.
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 eye/face protection, gloves, protective clothing.

Response statements: P308+P313 IF exposed or concerned: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.

SAFETY DATA SHEET

Product: Epigen Diluent Page 2 of 7 Date of Issue: December 2016

Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Poison Schedule (Australia) S5

Other hazards which do not result in classification

None known.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion
Xylene	1330-20-7	<80%
Methyl Ethyl Ketone	78-93-3	<50%

4 FIRST AID MEASURES

General advice: Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.

If inhaled: If fumes or combustion products are inhaled remove from contaminated area.
Lay patient down. Keep warm and rested.
Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained.
Perform CPR if necessary.
Transport to hospital, or doctor.

In case of skin contact: Immediately remove all contaminated clothing, including footwear.
Flush skin and hair with running water (and soap if available).
Seek medical attention in event of irritation.

In case of eye contact: Wash out immediately with fresh running water.
Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
Seek medical attention without delay; if pain persists or recurs seek medical attention.
Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

If swallowed: If swallowed do NOT induce vomiting.
If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
Observe the patient carefully.
Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
Seek medical advice.
Avoid giving milk or oils.
Avoid giving alcohol.
If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomits.

Most important symptoms and effects, both acute and delayed. See Section 11 for more detailed information

SAFETY DATA SHEET

Product: Epigen Diluent Page 3 of 7 Date of Issue: December 2016

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 (CO₂), dry chemical, dry sand or limestone.
- Specific hazards during fire: May generate toxic, irritating or flammable combustion products. Sudden reaction with fire may result if product is mixed with an oxidising agent.
- Hazardous combustion products: May generate carbon monoxide gas. Personnel in vicinity and downwind should be evacuated.
- Specific extinguishing methods: Water spray should be used to cool intact drums.
- Special protective equipment: Firefighters should wear butyl rubber boots, gloves, and body suit and a self contained breathing apparatus..

6 ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures: Use personal protective equipment.
Deny access to unprotected persons.
Remove all ignition sources.
- Environmental precautions: Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

7 HANDLING & STORAGE

- Advice on protection against fire and explosion: Normal measures for preventive fire protection.
- Advice on safe handling: Do not breathe vapours or spray mist.
Avoid exceeding the given occupational exposure limits (see section 8).
Do not get in eyes, on skin, or on clothing.
For personal protection see section 8.
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which a mixture is being used.
Smoking, eating and drinking should be prohibited in the application area.
Follow standard hygiene measures when handling chemical products.
- Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of the workday.
- Conditions for safe storage: Xylenes:
May ignite or explode in contact with strong oxidisers
Attack some plastics, rubber and coatings
May generate electrostatic charges on flow or agitation due to low conductivity.
Vigorous reactions, sometimes amounting to explosions, can result from the contact between aromatic rings and strong oxidising agents.
Methyl Ethyl Ketone:
Reacts violently with strong oxidisers, aldehydes, nitric acid, perchloric acid, potassium tert-butoxide, oleum
Is incompatible with inorganic acids, aliphatic amines, ammonia, caustics, isocyanates, pyridines, chlorosulfonic acid
Forms unstable peroxides in storage, or on contact with propanol or hydrogen peroxide

SAFETY DATA SHEET

Product: Epigen Diluent Page 4 of 7 Date of Issue: December 2016

Attacks some plastics
May generate electrostatic charges, due to low conductivity, on flow or agitation

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Ingredient Material name	TWA	STEL Peak
Methyl Ethyl Ketone	445 mg/m ³ / 150 ppm	890 mg/m ³ / 300 ppm
Xylene (o-, m-, p-isomers)	217 mg/m ³ / 50 ppm.	No Available

TWA: Time weighted average for 8 hours over 5 days
STEL: Short term exposure limit over a 15 minute period not exceeded over a 8 hour day

Personal protective equipment

Respiratory protection:	Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/ vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.
Hand protection:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates it is necessary.
Eye protection:	Safety eyewear complying with an approved standard should be used
Skin and body protection:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace.

9 PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Thin Liquid
Colour:	Colourless
Odour:	None discernible
Odour Threshold:	Not available
pH:	Not available
Melting Point:	Not available
Boiling Point (@760mm Hg):	> 79°C
Flashpoint (°C):	Xylene 27°C, Methyl Ethyl Ketone -4°C, Closed Cup
Evaporation rate:	No data available
Flammability:	Flammable
Upper explosion limit:	Not available
Lower explosion limit:	Not available
Vapour Pressure (mm Hg):	< 8 @ 20°C
Relative Vapour Density:	Not available
Density:	0.9
Solubility in Water:	Insoluble
Partition Coefficient n-Octanol/Water	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Per cent Volatiles:	100%
Volatile Organic Compounds:	100%

10 STABILITY & REACTIVITY

Reactivity:	See Section 7
Chemical stability:	See Section 7
Possibility of hazardous reactions:	Stable under recommended storage conditions.

SAFETY DATA SHEET

Product: Epigen Diluent Page 5 of 7 Date of Issue: December 2016

Conditions to avoid: Heat and sources of ignition.

Incompatible materials: See Section 7.

11 TOXICOLOGICAL INFORMATION

Acute Effects:

Skin contact : Skin contact with the material may be harmful; systemic effects may result following absorption. May accentuate any pre-existing dermatitis condition
Open cuts, abraded or irritated skin should not be exposed to this material
Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects)

Eye contact: Causes serious eye irritation.
(Vapour may cause mild discomfort and redness.)

Ingestion: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract, aspiration of vomit into the lungs with the risk of haemorrhaging, pulmonary oedema, progressing to chemical pneumonitis; serious consequences may result

Inhalation: Material may be an irritant to mucous membranes and respiratory tract.
May be damaging to the health of the individual.
Headache, fatigue, lassitude, irritability and gastrointestinal disturbances

Acute toxicity: Not classified based on available information.

Chronic toxicity: Harmful: danger of serious damage to health by prolonged exposure through inhalation. Serious damage
Prolonged or repeated contact may cause defatting dermatitis with drying and cracking.

Germ cell mutagenicity: Not classified based on available information.

Carcinogenicity: Not classified based on available information.

Reproductive toxicity: Not classified based on available information.

STOT – single exposure: May cause drowsiness or dizziness.

STOT – repeated exposure: Ingestion of large quantities may depress central nervous system.

Aspiration toxicity: Not classified.

12 ECOLOGICAL INFORMATION

Ecotoxicity: No data available on the mixture.

Persistence and degradability: No data available on the mixture.

Bioaccumulative potential: No data available on the mixture.

Mobility in soil: No data available on the mixture.

Other adverse effects

Product:

Additional ecological information: Avoid contaminating waterways or discharging to sewers. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY DATA SHEET

Product: Epigen Diluent Page 6 of 7 Date of Issue: December 2016

13 DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues:

The product should not be allowed to enter drains, water courses or the soil.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Send to a licensed waste management company.

Contaminated packaging:

Empty remaining contents.

Dispose of as unused product.

Do not re-use empty containers.

14 TRANSPORT INFORMATION

International Regulation

IATA-DGR

UN/ID No. UN 1263

Proper Shipping Name: PAINT - related materials including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base, or paint related material including paint thinning, drying, removing, or reducing compound

Class: 3

Packing group: II



Labels:

Packing instruction (cargo aircraft): 364

Packing instruction (passenger aircraft): 353

IMDG-Code

UN number: UN 1263

Proper Shipping Name: PAINT - related materials including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base, or paint related material including paint thinning, drying, removing, or reducing compound

Class: 3

Packing group: II



Labels:

EmS Code: F-E, S-E

Marine pollutant: Not Applicable

Road & Rail Transport

“Australian Code for the Transport of Dangerous Goods by Road & Rail”

UN number: UN 1263

Proper Shipping Name: PAINT - related materials including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base, or paint related material including paint thinning, drying, removing, or reducing compound

Class: 3

Packing group: II



Labels:

SAFETY DATA SHEET

Product: Epigen Diluent Page 7 of 7 Date of Issue: December 2016

15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture.

Standard for the Uniform Scheduling
of Medicines and Poisons:

Schedule 5

International Chemical Weapons Convention (CWC)
Schedules of Toxic Chemicals and Precursors

Not applicable

Prohibition / Licensing Requirements: There is no applicable prohibition or notification / licensing requirements, including for carcinogens under Commonwealth, State or Territory legislation.

The components of this product are reported in the following inventories:

AICS: On the inventory, or in compliance with the inventory.

16 OTHER INFORMATION

Date format: 20 December 2016

Safety Data Sheets are updated frequently. Please ensure that you have a current copy. SDS may be obtained from the following website: www.epigen.com.au

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the material are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising from or in any way connected with the handling, storage, use or disposal of the material