

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material Name: BioMount™ mounting medium.
Catalogue Number: IM028.
Other Names: Xylene (commercial grade mixed isomers).
Recommended Use: Used as a mounting medium.

Supplier Name: ProSciTech
Street Address: 1/11 Carlton Street, Kirwan, Qld. 4817 Australia
Telephone Number: (07) 4773 9444 - 8:30am – 5:00pm, Monday to Friday (excluding Public Holidays)
Emergency Contact: (07) 4773 9444 - 8:30am – 5:00pm, Monday to Friday (excluding Public Holidays)

SECTION 2 - HAZARDS IDENTIFICATION

Hazard Classification: Hazardous according to criteria of Hazardous Substances Information System [HSIS Worksafe Australia].
Hazardous and/or Dangerous Nature: HAZARDOUS SUBSTANCE. DANGEROUS GOODS.
Risk Phrases: R10 Flammable.
R20/21 Harmful by inhalation and in contact with skin.
R38 Irritating to skin.
Safety Phrases: S2 Keep out of reach of children.
S25 Avoid contact with eyes.

Refer to Section 15 for Poisons Schedule.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Pure Substance (Proportion 100%):

Chemical Identity: Mixture See Below.
Common Name(s): Mixture See Below.
CAS Number): Mixture See Below.

Mixture Substance:

Ingredients	Cas Number(s)	Proportion (%)
Xylene (o-, m-, p- isomers)	1330-20-7	> 50
Biomount (non-hazardous materials)	Not available.	< 50

Note: mixed isomers generally contain Isomer mixture of:

20% o-Xylene; Cas Number: 95-47-6
40% m-Xylene; Cas Number: 108-38-3
20% p-Xylene; Cas Number: 106-42-3
20% ethylenzene & small quantities of toluene; Cas Number: not available.

SECTION 4 - FIRST AID MEASURES

Ingestion: Never give anything by mouth to someone who is unconscious or convulsing. Vomiting may occur spontaneously, but do not induce it. If vomiting should occur, keep exposed person's head below their hips to prevent aspiration (breathing the liquid Xylene into the lungs). Seek immediate medical assistance for further treatment, observation and support after first aid.

Inhalation: Remove the exposed person to fresh air; restore and/or support his or her breathing as needed. Have trained personnel administer oxygen. Seek immediate medical attention.

Eye Contact: Immediately flush eyes (including under eyelids) gently but thoroughly with running water for at least 15 minutes. Seek medical attention if irritation persists.

Skin Contact: Immediately wash affected area with soap and water. Seek medical attention if irritation persists.

First Aid Facilities: Eyebath/eyewash.

Medical Attention & Special Treatment:
IF INGESTED: Severe hemorrhagic pneumonitis with grave, possible fatal, pulmonary injury can occur from aspirating very small quantities of Xylene component.

Additional Information:

Acute effects include: Dizziness; drowsiness; in co-ordination; irritation of eyes, nose and throat; nausea; vomiting; abdominal pain; and dermatitis.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Use foam, dry chemical or carbon dioxide.

Use water spray to reduce rate of burning and to cool containers if large quantities of Eukitt are involved in fire conditions.

Hazards from Combustion Products:

Xylene vapor is heavier than air and may travel a considerable distance to a low-lying source of ignition and flashback. Keep away from open flame. Carbon Monoxide (CO₂) and Carbon Dioxide.

Precautions for Fire Fighters:

Wear self-container breathing apparatus (SCBA) with full Face-piece operated in the pressure demand or positive- pressure mode.

Hazchem Code: 3WE

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

Keep Eukitt and Xylene out of sewers, watersheds and waterways. Notify safety personnel. Provide ventilation. Eliminate all sources of ignition immediately.

Containment & Clean up:

Protect against contact (refer to Section 8 for protective equipment) and inhalation of Xylene vapor. Contain spills. Collect waste or absorb it with an inert material such as sand, earth, vermiculite or other solvent absorbent material. Use tools or place waste liquid or absorbent into closable containers for disposal.

SECTION 7 - HANDLING & STORAGE

Precautions for Safe Handling:

Practice good personal hygiene. Always wash hands thoroughly after using Eukitt. Keep Eukitt and Xylene off of clothing and equipment. Avoid transferring it from your hands to your mouth while eating, drinking or smoking. Do not eat, drink or smoke in your work area. Do not inhale Xylene vapor contained in Eukitt mounting medium. DO NOT WEAR lenses in work area. Remove contaminated clothing and launder before wearing again. Clean from shoes and equipment.

Precautions for Safe Storage:

Store Eukitt in a cool, dry and well-ventilated area away from possible sources of ignition. Protect containers from physical damage while storing or handling. Store as close to 20°C as possible.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards: Xylene (o-, m-, p- isomers):

TWA 80ppm

TWA 350 mg/m³

STEL 150ppm

STEL 655 mg/m³

Biological Limit Values: UK Exposure limits:

Long Term; 220mg/m³ (50ppm)

Short Term; 441 mg/m³ (100ppm)

Engineering Controls:

Use in well-ventilated area or under fume hood. Make eyewash stations and safety washing facilities available in areas of use and handling.

Personal Protective Equipment:

Protective eyeglasses/goggles may be worn. If splashing is possible when pouring Eukitt or Xylene from container, wear a full face shield as a supplementary protective measure. Follow OSHA eye and face protection regulations (29 CFR 1910.133).

Wear impervious gloves.

Contact lenses pose a special hazard; soft lenses may absorb irritants. All lenses concentrate vapors. Do not wear lenses in work area.

Remove contaminated clothing and launder before wearing again.

Clean any material from shoes and equipment.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance:

A clear liquid.

Odour:	Distinct Xylene odour.
pH:	Not available.
Vapour pressure (mm of Hg at °C):	6.2mm of Hg at 21°C.
Vapour density:	Not available.
Boiling point/range (°C):	140°C.
Freezing/melting point (°C):	-47.4°C.
Solubility:	Immiscible or insoluble.
Specific gravity or density:	Not available.
Flash Point:	25°C.
Flammable (explosive) limits:	Lower limit: 1.1%. Upper limit: 7%.
Ignition temperature:	465°C.
Additional Information:	
Viscosity:	<32.6 SUS.

SECTION 10 - STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use.
Conditions to avoid:	Avoid open flame, any exposure to sources of ignition and incompatible materials.
Incompatible Materials:	Strong oxidising agents, concentrated sulphuric acid, nitric acid, UF6, sulphur.
Hazardous Decomposition Products:	Carbon Monoxide (CO ₂) and Carbon Dioxide.
Hazardous Reactions:	Eukitt does not undergo hazardous polymerization.

SECTION 11 - TOXICOLOGICAL INFORMATION

Exposure and Health Effects:

Excessive, direct prolonged contact should be avoided. Existing medical conditions or problems with eyes, skin, central nervous system, kidneys and liver may be worsened by exposure to Xylene component.

Acute Symptoms: Dizziness; drowsiness; in co-ordination; irritation of eyes, nose and throat; nausea; vomiting; abdominal pain; and dermatitis.

Delayed Symptoms: May cause defatting dermatitis, reversible eye damage, dyspnea (labored breathing), confusion, dizziness, apprehension, memory loss, headache, tremors, weakness, anorexia, nausea, ringing in the ears, irritability, thirst, mild changes in liver function, kidney impairment, anemia, and hyperplasia, but not destruction, of the bone marrow.

Ingestion:

Aspiration hazard. May cause irritation of the digestive tract. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure. May cause effects similar to those of acute inhalation.

Inhalation:

May lead to the formation of edemas in the respiratory tract.

Eye Contact:

Irritating to eyes.

Skin Contact:

Irritating. Danger of skin absorption. After absorption of toxic quantities: drowsiness, dizziness, euphoria, excitation, spasms, in certain circumstances narcosis. Effect potentiated by: ethanol. Degreasing effect on the skin, possibly followed by secondary inflammation.

Human/Animal data:

Draize test, rabbit, eye: 87 mg Mild
 Draize test, rabbit, eye: 5 mg/24H Severe
 Draize test, rabbit, skin: 100% Moderate
 Draize test, rabbit, skin: 500 mg/24H Moderate
 Inhalation, rat: LC50 = 5000ppm/4H
 Oral, rat: LD50 = 4300 mg/kg
 Skin, rabbit: LD50 = > 1700 mg/kg.

Carcinogenic Category:

Group 3: Not classifiable as to its carcinogenicity to humans.

Other Carcinogenic

Evidence of reproductive effects.

Information:

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity:	Do not allow to enter drinking water supplies, waste water, or soil.
Persistence and degradability:	Not available.
Mobility:	Not available.
Additional Information:	Not available.

SECTION 13 - DISPOSAL CONSIDERATIONS**Disposal Methods:**

Dispose of waste amounts of Eukitt by following Federal, State or Local regulations pertaining to proper disposal of commercial grade Xylene (CAS NO. 1330-20-7).

Special Precautions/Additional Informational:

Keep Eukitt and Xylene out of sewers, watersheds and waterways.

SECTION 14 - TRANSPORT INFORMATION

UN Number:	UN 1993
UN Proper Shipping Name:	Flammable liquid, n.o.s. (Xylene (o-, m-, p- isomers))
Class and Subsidiary risk:	3
Packing Group:	III
Special Precautions for User:	Not available.
Hazchem Code:	3WE

SECTION 15 - REGULATORY INFORMATION

Poison Schedule Number: None Allocated.

SECTION 16 - OTHER INFORMATION

Date of preparation of MSDS: September 10

Comments:

List of Publications referenced when creating this MSDS;

- Hazardous Substances Information System Consolidated Lists: Safe Work Australia.
- APPROVED CRITERIA FOR CLASSIFYING HAZARDOUS SUBSTANCES [NOHSC:1008(2004)] 3rd Edition: National Occupational Health and Safety Commission.
- Dangerous Goods - Initial Emergency Response Guide (SAA/SNZ HB76:1997)
- IATA Dangerous Goods Regulations
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)].

This Material Safety Data Sheet (MSDS) has been prepared in compliance with the National code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. The information published in this MSDS has been compiled from the publications listed in Section 16: to the best of our ability and knowledge these publications are considered accurate. We reserve the right to revise Material Safety Data Sheets as new information becomes available. Copies may be made for non-profit use.

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