

BIOMOUNT
 MATERIAL SAFETY DATA SHEET
 3/10/03

Section 1 Product and Company Information

1.1 Product Cat #	BIOMOUNT 17894
1.2 Company Information	Electron Microscopy Sciences 321 Morris Road P.O. Box 251 Fort Washington, PA 19034 Tel: 215-646-1566 Fax: 215-646-8931 Email: sgtkock@aol.com
1.3 Emergency Contact	Telephone Chemtrec: 800-424-9300 Outside of U.S.: 202-483-7616

Section 2 Composition / Information on Ingredients

CAS Number	Chemical / Preparation Name	Percent	ELINCS / EINECS
n/a	BIOMOUNT	n/a	n/a

Hazardous ingredients			
CAS Number	Chemical / Preparation Name	Percent	ELINCS / EINECS
1330-20-7	XYLENE, mixture of isomers	> 50%	215-535-7

Hazard Symbols: Xn
Risk Phrases: R10-20/21-38

Section 3 Hazard Identification

Overview
Flammable. Harmful by inhalation and in contact with skin

Potential Health Effects	
Eyes:	Irritating
Skin:	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.
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 oedemas in the respiratory tract.
Chronic:	Chronic exposure to xylene may cause defatting dermatitis, reversible eye damage, dyspnea (laboured breathing), confusion, dizziness, apprehension, memory loss, headache, tremors,

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	weakness, anorexia, nausea, ringing in the ears, irritability, thirst, mild changes in liver function, kidney impairment, anaemia, and hyperplasia, but not destruction, of the bone marrow.
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Section 4 First Aid Measures

Eyes:	Irrigate thoroughly with water for at least 10 minutes. OBTAIN MEDICAL ATTENTION.
Skin:	Drench the skin thoroughly with water. Remove contaminated clothing and wash before re-use. Unless contact was slight, OBTAIN MEDICAL ATTENTION.
Ingestion:	Wash out mouth thoroughly with water and give plenty of water to drink. OBTAIN MEDICAL ATTENTION.
Inhalation:	Remove from exposure, rest and keep warm. In severe cases, or if exposure has been great, OBTAIN MEDICAL ATTENTION.

Notes to Physician

Treat symptomatically.

Section 5 Fire Fighting Measures

General Information

Flammable, may evolve toxic fumes in fire.

Extinguishing Media

Foam, dry powder, carbon dioxide or vaporising liquids.

Section 6 Accidental Release Measures

General Information

Shut off all sources of ignition. Inform others to keep at a safe distance. Wear appropriate protective clothing.

Spills / Leaks

Absorb on an inert absorbent, transfer to a suitable container and arrange removal by a disposal company. Wash the site of spillage thoroughly with water and detergent. For large spillages liquids should be contained with sand or earth and both liquids and solids transferred to salvage containers. Any residues should be treated as for small spillages.

Section 7 Handling and Storage

Handling

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapour), and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Use only with adequate ventilation. Keep away from heat, sparks and flame. Avoid breathing

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vapour or mist.

Storage

Store at room temperature (15 to 25°C recommended). Keep well closed and protect from direct sunlight and moisture. Keep away from strong acids.

Section 8 Exposure Controls / Personal Protection

Exposure Limits

Chemical Name	ACGI H	NIOSH	OSHA – Final PELs	OSHA – Vacated PELs
n/a	n/a	n/a	n/a	n/a

UK Regulations

UK exposure limits:	OES Xylene, o, m, p or mixed isomers:
Long term:	220 mg/m ³ (50ppm)
Short term:	441 mg/m ³ (100ppm)

Personal Protective Equipment

Eyes:	Goggles or face shield
Skin:	Nitrile gloves.
Clothing:	Plastic apron, sleeves, (boots if handling large quantities).
Respirators:	Self contained breathing apparatus. (Flameproof fume cupboard.)

Section 9 Physical and Chemical Properties

Physical State:	Liquid
Appearance:	Colourless
Odour:	Of Xylene
pH:	n/a
Vapour Pressure:	6.72 mm Hg @21°C
Vapour Density:	n/a
Evaporation Rate:	n/a
Viscosity:	< 32.6 SUS
Boiling Point:	140°C
Freezing / Melting Point:	-47.4°C
Auto-ignition Temperature:	465°C
Flash Point:	25°C
Decomposition Temperature:	n/a
NFPA Rating:	n/a
Explosion Limits:	7%
Upper:	
Lower:	1.1%
Solubility:	Immiscible or insoluble
Specific Gravity / Density:	n/a
Molecular Formula:	n/a

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Molecular Weight:	n/a
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Section 10	Stability and Reactivity
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Chemical Stability:	Stable
Conditions to Avoid:	Heat, direct sunlight, moisture.
Incompatibilities with other Materials:	Strong oxidising agents, concentrated sulphuric acid, nitric acid, UF6, sulphur.
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide.
Hazardous Polymerisation:	n/a

Section 11	Toxicological Information
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RTECS Number:	1330-20-7; ZE2100000
CAS Number:	n/a
LD50 / LC50:	1330-20-7: CAS# 1330-20-7: 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 = 5000 ppm/4H; Oral, rat: LD50 = 4300 mg/kg; Skin, rabbit: LD50 = > 1700 mg/kg.
Carcinogenicity:	1330-20-7: ACGIH: A4 – Not classifiable as Human Carcinogen IARC: Group 3 carcinogen.
IARC:	Group 3 carcinogen.
Epidemiology:	n/a
Teratogenicity	n/a
Reproductive Effects:	Evidence of reproductive effects.
Neurotoxicity:	n/a
Mutagenicity:	n/a
Other Studies:	n/a

Section 12	Ecological Information
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Ecological Hazards:	Do not allow to enter drinking water supplies, waste water, or soil.
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Section 13	Disposal Considerations
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Waste Disposal – Material:	Chemical residues are generally classified as special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company.
Waste Disposal – Empty Packaging:	Rinse out empty containers thoroughly before returning for recycling, or pass to a chemical disposal company.

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Section 14 Transport Information

Shipping Name:	n/a
RID / ADR / DOT 49 CFR:	3,31'(c)
ICAO / IATA:	1993
IMDG Code:	3.3
UN Number:	1993
MFAG:	n/a
EMS:	n/a
Notes:	Packing group III

Section 15 Regulatory Information
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European / International Regulations	
Hazard Symbols:	Xn (Harmful)
Risk Phrases:	R10-20/21-38 (Flammable. Harmful by inhalation and in contact with skin. Irritating to skin.)
Safety Phrases:	S25-36/37 (Avoid contact with eyes. Wear suitable protective clothing and gloves.)

US Federal Regulations	
TSCA:	133-20-7 is listed on the TSCA inventory.
SARA:	n/a
OSHA:	n/a

Section 16 Other Information

MSDS Creation Date:	06/09/2002
Revision Due:	06/15/2006
Notes:	Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall Electron Microscopy Sciences be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Electron Microscopy Sciences has been advised of the possibility of such damages.