BBC Biochemical MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Information

Common Name:	**Optic Mount I™, Xylene**	**Code:**	**7720**
Supplier:	**BBC Biochemical**	**MSDS#:**	**7720**
Synonym:	**None**	**Validation Date:**	**08-01-2013**
Trade Name:	**None**	**Print Date:**	**08-01-2013**
Material Uses:	**Mounting coverslips over tissue sections.**	**Responsible Name:**	**Skye Mitchell**
Manufacturer:	**BBC Biochemical PO Box 1320 409 Eleanor Lane Mount Vernon, WA 98273 1-800-635-4477**	**In Case of Emergency:**	**1-800-424-9300 Chemtrec USA 1-202-483-7616 Chemtrec Intrl 1-800-635-4477**

Section 2. Composition and Information on Ingredients

Name	CAS#	OSHA PEL/TWA	ACGIH TLV/CL
1) Xylene	1330-20-7	100 ppm	100 ppm
2) Acrylate Polymer	25086-15-1	100 ppm	100 ppm

Section 3. Hazards Identification

Physical State and Appearance	Clear to light yellowish liquid with an aromatic odor.
Emergency Overview	Not available.
Routes of Entry	Inhalation, eye contact, ingestion, skin contact.
Potential Acute Health Effects	
Eyes	300 ppm has caused irritation to humans. Repeated or prolonged exposure to high vapor concentrations can cause a burning sensation, conjunctivitis and blurred vision.
Skin	Toluene is a defatting agent and may cause a burning sensation, drying, vasodilation, erythemia, and blistering.
Inhalation	200 ppm is immediately dangerous to life or health. Repeated or prolonged exposure to vapor concentrations above 200 ppm may cause nausea, vomiting, abdominal pain, and anorexia. Other common complaints include headache, fatigue, lassitude, irritability, breathing difficulties, and flatulence.
Ingestion	May cause a burning sensation in the mouth, severe gastrointestinal distress, nausea and vomiting.
Potential Chronic Health Effects	N/A
Medical Conditions Aggravated by Overexposure	N/A
Overexposure/ Signs/Symptoms	

Section 4. First Aid Measures

Eye Contact	Immediately flush with water for at least 15 minutes.
Skin Contact	Immediately flush with large amounts of water.
Inhalation	Remove to fresh air; give artificial respiration if breathing has stopped.
Ingestion	Extreme care must be taken to prevent aspiration. Get medical attention immediately. Do not induce vomiting.
Notes to Physician	Not available.

Section 5. Fire Fighting Measures

Flammability of the Product	Flammable.
Auto-ignition Temperature	Not available.
Flash Points	40° F.
Flammable Limits	Not available.
Products of Combustion	Not available.

Fire Hazards in Presence Of Various Substances	Not available.
Explosion Hazards in Presence of Various Substances	Not available.
Fire Fighting Media and Instructions	Dry chemical, carbon dioxide, water spray, or regular foam. NOTE: Water may be ineffective (NFPA 325M)
Protective Clothing (Fire)	
Special Remarks on Fire Hazards	
Special Remarks on Explosion Hazards	

Section 6. Accidental Release Measures

Small Spill and Leak	Flush small spills with large amounts of water. Evacuate the area of all unnecessary personnel. Wear suitable protective clothing listed in section VIII. Contain the release and eliminate it's source, if this can be done without risk. Neutralize, take up and containerize for proper disposal as described under Waste Disposal Method. Comply with Federal, State, and local regulation on reporting releases.
Large Spill and Leak	Same as above.

Section 7, Handling and Storage

Handling	Do not breathe solution mist. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.
Storage	Keep container closed. Store at controlled room temperature.

Section 8. Exposure Controls / Personal Protection

Engineering Controls	
Personal Protection	
Eyes	Safety glasses with side shields should be worn at all times. Eye wash and safety equipment should be available.
Body	Impervious clothing should be worn to prevent skin contact.
Respiratory	Any dust/mist respirator. If workplace exposure limit(s) of product or any component is exceeded, a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. Material should be handled or transferred in an approved fume hood with adequate ventilation.
Hands	Protective gloves, Neoprene or equivalent, should be worn to prevent skin contact.
Feet	Impervious footwear should be worn to prevent skin contact.
Personal Protection in Case of a Large Spill	Safety glasses with side shields, impervious clothing and footwear, protective gloves, respirator (if necessary).

Product Name	**Exposure Limits**
1)	
2)	
3)	

Consult Local authorities before acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Clear to light yellowish liquid with an aromatic odor.	**Odor:**	Aromatic.
Molecular Weight	Not applicable.	**Taste:**	Not available.
Molecular Formula	Not applicable.	**Color:**	Clear to light yellowish.
pH (1%/Water)	Not applicable.		
Boiling/Condensation Point	231° F.		
Melting/Freezing Point	Not applicable.		
Critical Temperature	Not applicable.		
Specific Gravity	0.86.		
Vapor Pressure	22@20° C. (mm Hg).		
Vapor Density	3.14 (Air=1).		
Volatility	100% volatile.		
Odor Threshold	Not applicable.		
Evaporation Rate	2.24 (BuOAc=1).		
VOC	Not available.		
Viscosity	Not available.		
Ionicity (in water)	Not available.		
Dispersion Properties	Not available.		

Solubility	Soluble in alcohol, ether, many organic solvents.
Physical Chemical Comments	Not available.

Section 10. Stability and Reactivity

Stability and Reactivity	Stable.
Conditions of Instability	Avoid sources of ignition.
Incompatibility with Various Substances	Allyl Chloride + Dichloroethyl aluminum or ethylaluminum sesquichloride: Possible explosion. Bromine Trifluoride (solid): Violent reaction. 1,3-Dichloro-5,5-Dimethyl-2,4-Imidazolididione: Explosive reaction. Dinitrogen Tetrafluoride: Forms explosive mixture. Mineral Acids (Strong): Incompatible. Nitric Acid: Vigorous reaction. Nitric Acid + Sulfuric Acid: Violent decomposition possible. Nitrogen Tertoxide: Explosive reaction. Oxidizers (Strong): Fire and Explosion hazard. Plastics, rubber, and coatings: May be attacked. Silver Perchlorate: Forms shock-sensitive mixture. Sulfur Dichloride: Violent reaction, greatly accelerated in the presence of iron or ferric chloride. Sulfuric Acid: Exothermic reaction. Tetranitromethane: Forms explosive mixture. Uranium Hexafluoride: Violent reaction.
Hazardous Decomposition Products	May include toxic oxides of carbon and various hydrocarbons.
Hazardous Polymerization	None known.

Section 11. Toxicological Information

Toxicity to Animals	Xylene: LD50: oral rat=4300 mg/kg.; dermal rabbit >2000 mg/kg LC50: inhalation rat=6700 ppm for 4 hours
Chronic Effects on Humans	This product contains the following toxic chemical subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372: Toluene CAS# 108-88-3
Other Toxic Effects on Humans	
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.
Special Remarks on Other Toxic Effects on Humans	Not available.

Section 12. Ecological Information

Ecotoxicity	Not available.
BODS and COD	Not available.
Biodegradable/OEDC	Not available.
Mobility	Not available.
Toxicity of the Products of Biodegradation	Not available.
Special Remarks on The Products of Biodegradation	Not available.

Section 13. Disposal Considerations

Waste Information	Not available.
Waste Stream	Not available.
Consult your local or regional authorities.	

Section 14. Transport Information

DOT Classification	Flammable Liquid, UN1307, Xylenes, 3, II
Marine Pollutant	Not available.
Hazardous Substances Reportable Quantity	Not available.
Special Provisions for Transport	Not applicable.
TDG Classification	Flammable Liquid, UN1307, Xylenes, 3, II
ADR/RID Classification	ADR (Europe) Information not available.

IMO/IMDG Classification	IMDG Information not available.
ICAO/IATA Classification	See IATA Regulations Flammable Liquid, UN1307, Xylenes, 3, II

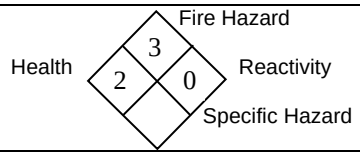
Section 15. Other Information

Label requirements

Hazardous Material Information System (U.S.A.)

Health	2
Fire Hazard	3
Reactivity	0
Personal Protection	

National Fire Protection Association (U.S.A.)



References

Other Special Considerations

Notice to Reader

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