



# TRIANGLE BIOMEDICAL SCIENCES, INC.

3014 CROASDAILE DRIVE • DURHAM, NORTH CAROLINA 27705-2507 • USA • 919.384.9393 • FAX 919.384.9595 • E-MAIL: tbs@trianglebiomedical.com

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## MATERIAL SAFETY DATA SHEET

IDENTIFICATION AND EMERGENCY INFORMATION						
<b>Product Name</b>	Shur/Mark Laboratory Marker, Black					
<b>Product Code (Catalog Number)</b>	MP-B (Catalog number change only-previously H-MP-B)					
<b>Product Category (Chemical Name)</b>	solvent base ink					
<b>Product Appearance and Odor</b>	thin liquid with slight pungent odor					
<b>Emergency Notification</b>	Chem-Tel 1-800-255-3924					
COMPONENTS AND HAZARD INFORMATION						
Component	CAS No.	%	OSHA TWA		OSHA STEL	
			ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
cyclohexanone	108-94-1	18	25	NE	NE	NE
proylene glycol methyl ether	107-98-2	40	100/8hr workdy	NE	NE	NE
diacetone alcohol	123-42-2	31	50	NE	NE	NE
vinyl resin	25086-48-0	4	NE	NE	NE	NE
solvent black 7	8005-02-5	6	NE	15*	NE	NE
* "free dust" not bound in paint/ink matrix						
PHYSICAL DATA						
THE FOLLOWING DATA ARE APPROXIMATE OR TYPICAL VALUES AND SHOULD NOT BE USED FOR PRECISE DESIGN PURPOSES.						
<b>Boiling Range</b> 248°F (120°C) – 340°F (171°C)	<b>Specific Gravity</b> <1.0	<b>Molecular Weight</b>		<b>Viscosity</b> 12.5 SECS FORD Cup		
<b>Percent Volatile by Volume</b> 85	<b>Vapor Pressure @20 C degrees</b> 15	<b>Vapor Density (Air = 1)</b> 35		<b>Pour, Congealing or Melting Point</b>		
<b>Solubility in Water @1 ATM and 25°C (77°F)</b> partial		<b>Evaporation Rate @1 ATM and 25°C (77°F)</b> (n-Butyl Acetate =1) slower than ether			<b>pH</b>	
FIRE AND EXPLOSION HAZARD INFORMATION						
<b>Flash Point (Minimum)</b> 89°F	<b>Autoignition Temperature</b>		<b>Test Mode</b> TCC	<b>LEL</b> NE	<b>UEL</b> NE	

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NNR = not normally required

<b>National Fire Protection Association (NFPA) — Hazard Identification</b>			
<b>Health</b>	<b>Flammability</b>	<b>Reactivity</b>	<b>Basis</b>
2	3	0	
<b>Handling Precautions</b>			
<b>Flammable or Explosive Limits (Approximate Percent by Volume in Air)</b>			
<b>Extinguishing Media</b> foam, CO <sub>2</sub> , dry chemical, water spray			
<b>Fire Fighting Procedures</b> NNR			
<b>Decomposition Products Under Fire Condition</b>			
<b>“Empty” Container Warning</b>			
<b>Unusual Fire and Explosion Hazards</b> NA			
<b>HEALTH AND HAZARD INFORMATION</b>			
<b>Variability Among Individuals</b>			
<b>Signs and symptoms of overexposure</b> headache, dizziness, nausea, anesthesia, coughing, eye, throat irritation			
<b>Effects of Overexposure</b> slight to severe irritation to eyes and mucous membranes of nose and throat, dermatitis, affects central nervous system			
<b>Nature of Hazard and Toxicity Information</b>			
<b>Pre-existing Medical Conditions which may be Aggravated by Exposure</b>			
<b>Threshold Limit Value</b>			
<b>Health Hazards</b>			
<b>PRIMARY ROUTES OF ENTRY AND EMERGENCY AND FIRST AID PROCEDURES</b>			
<b>Eye Contact</b>			
<b>Skin</b> wash with copious amounts of water			

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<b>Inhalation</b> seek fresh air, give artificial respiration if not breathing		
<b>Ingestion</b> call physician		
<b>SEEK MEDICAL TREATMENT IF DISCOMFORT PERSISTS.</b>		
<b>REACTIVITY</b>		
<b>Stability</b> stable	<b>Incompatibility</b> do not mix with strong oxidants	<b>Hazardous Decomposition Products</b> carbon monoxide, carbon dioxide, and unidentified organic combustion products
<b>Conditions to Avoid</b> heat, open flame and sparks	<b>Hazardous Polymerization</b> will not occur	<b>Materials to Avoid</b>
<b>ENVIRONMENTAL INFORMATION</b>		
<b>Steps to be Taken in Case Material is Released or Spilled</b> Remove all ignition sources, ventilate area, use absorbent material to clean spill.		
<b>Disposal</b> Dispose of waste in accordance with local and federal regulations.		
<b>Protective Gear</b> NNR		
<b>Precautions to be taken in handling and storage</b> Keep away from heat, fire and strong oxidants. Store in cool place (room temperature). Use adequate ventilation.		
<b>THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL LAWS AND REGULATIONS UNDER VARIOUS ENVIRONMENTAL STATUTES.</b>		
<b>Reportable Quantity (RQ), EPA Regulation 40 CFR 302 (CERCLA Section 102)</b>		
<b>Threshold Planning Quantity (TPQ), EPA Regulation 40 CFR 355 (SARA Sections 301-304)</b>		
<b>Toxic Chemical Release Reporting, EPA Regulation 40 CFR 372 (SARA Section 313)</b>		
<b>Hazardous Chemical Reporting, EPA Regulation 40 CFR 370 (SARA Sections 311-312)</b>		
<b>SPECIAL STATE NOTIFICATIONS</b>		
<b>PROTECTION AND PRECAUTIONS</b>		
None should be needed.		

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<b>TRANSPORTATION AND OSHA RELATED LABEL INFORMATION</b>
<b>Transportation Incident Information</b>
<b>U.S. DOT Hazardous Materials Shipping Description</b> UN1210 – flammable liquid
<b>OSHA Required Label Information</b>
<b>WHMIS (Canada only)</b> B3

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