



Date Issued: February 14, 2011

Supersedes Date: February 3, 2011

MATERIAL SAFETY DATA SHEET

Section 1: Chemical Product and Company Identification

Cat#: TMD-BL

Part Name: TISSUE MARKING DYE – BLUE

Supplier: Triangle Biomedical Sciences, Inc. (TBS)
 3014 Croasdaile Drive
 Durham, NC 27705
 Phone: 919-384-9393

Section 2: Composition/ Information on Ingredients

Item #	Name	CAS#	% in product
1	Ammonium hydroxide	001336216	2
2	Copper phthalocyanine	000147148	17
3	Formaldehyde	000050000	0.05
4	Water	007732185	80

OSHA (ACGIH) Exposure Limits

CAS#	IDHL	TWA		STEL		CEILING	
		ppm	mg/m3	ppm	mg/m3	ppm	mg/m3
000050000	20	OSHA: Not classifie	--	2/15 min	NE	--	--
		ACGIH: --	--	--	--	0.3 c	0.37
000147148	NE	OSHA: NE	NE	NE	NE	NE	NE
		ACGIH: NE	NE	NE	NE	NE	NE
001336216	NE	OSHA: NE	NE	NE	NE	NE	NE
		ACGIH: NE	NE	NE	NE	NE	NE
007732185	NE	OSHA: NE	NE	NE	NE	NE	NE
		ACGIH: NE	NE	NE	NE	NE	NE

Section 3: Hazards Identification

Causes skin and eye irritation.

Hazard Ratings:

These ratings are TBS's. own assessments of the properties of the material using the ANSI/NFPA 704 Standard. Additional information can be found by consulting in the NFPA published ratings lists (List 325 and List 49).

If no data is listed the information is not available.

Health Flammability Reactivity

1 ---- 1 ----- 0

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

Section 4: First Aid Measures

Flush eyes with flowing water for at least 15 minutes.
If swallowed, induce vomiting as directed by medical personnel.
Wash skin with deluge of water for at least 15 minutes.

Section 5: Fire Fighting Measures

Flash point, deg F.: no data Method: no data
UEL: no data LEL: no data Autoignition temperature, deg. F.: no data
Flammability Classification: no data Flame Propagation Rate: no data
Hazardous Combustion Products: no data

Section 6: Accidental Release Measures

Any information listed below is to be considered in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition sources from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel.
No special measures are indicated.

Section 7: Handling and Storage

Keep from freezing.

Section 8: Exposure Controls/ Personal Protection

The use of eye protection in the form of safety glasses with side shields and the use of skin protection for hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves.
Use chemical splash goggles and face shield.
Use latex or equivalent gloves.

Section 9: Physical and Chemical Properties

Formula: no data vapor pressure: no data
Formula Weight: no data vapor density: no data
boiling point: no data Specific gravity: 1.02
melting point: no data ph: no data
solubility: complete appearance: blue slightly viscous liquid

Section 10: Stability and Reactivity

Chemical Stability: stable
Conditions to Avoid: no data
Incompatibility with other materials: no data
Hazardous Decomposition Products: oxides of carbon
Hazardous Polymerization: will not occur

Section 11: Toxicological Information

Acute Data: no data
Subchronic data: no data

Section 12: Ecological Information

no data

Section 13: Disposal Considerations

The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number the substance may be subject to special federal and state disposal regulations. If no codes are listed the material must be disposed in compliance with all Federal, State and Local Regulations.

CAS#	Waste Code	Regulated Name
000050000	U122	Formaldehyde
000147148	not listed	not listed
001336216	not listed	not listed
007732185	not listed	not listed

Section 14: Transportation Data

Refer to bill of lading or container label for DOT or other transportation hazard classification , if any.

Section 15: Regulatory Information

All components of this product are on the TSCA public inventory.

Prop 65 - Column A identifies those items which are known to the State of California to cause cancer. Column B identified items which are known to the State of California to cause reproductive toxicity.

CAS#	Column A	Column B
000050000	Yes	no
000147148	no	no
001336216	no	no
007732185	no	no

State Regulatory Information :If a CAS# is listed below this material is subject to the listed state right-to-know requirements.

CAS#	FL	MA	MI	MN	NJ	PA	WA
000050000	FL	MA	MI	MN	NJ	PA	WA
000147148	not listed						
001336216	MA	PA					
007732185	not listed						

SARA Toxic Release Chemicals(as defined in Section 313 of SARA Title III)

This list identifies the toxic chemicals, including their de minimis concentrations for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). The list is also referred to as the Toxics Release Inventory (TRI) List.

CAS#	Regulated Name	de minimis conc.	%Rep. Thres.
000050000	Formaldehyde	0.1	not listed
000147148	not listed	not listed	not listed
001336216	not listed	not listed	not listed
007732185	not listed	not listed	not listed

SARA Extremely Hazardous Substances and TPQs

This list includes hazardous chemicals as defined in 29 CFR 1910.1200(c); and extremely hazardous substances regulated under Section 302 of

SARA Title III with their TPQs (in pounds), as listed in 40 CFR 355, Appendices A and B.

CAS#	Regulated Name	TPQ (pounds)	EHS-RQ(pounds)
000050000	Formaldehyde	500	100
000147148	not listed	not listed	not listed
001336216	not listed	not listed	not listed
007732185	not listed	not listed	Not listed

CERCLA

The hazardous substances, and their reportable quantities (RQs) are listed in the federal regulations at 40 CFR Part 302, Table 302.4. Release of a CERCLA hazardous substance in an amount equal to or greater than its RQ, in any 24-hour period, must be reported to the National Response Center at (800) 424-8802.

CAS#	Regulated name	RQ pounds
000050000	Not listed	Not listed
000147148	Not listed	Not listed
001336216	Not listed	Not listed
007732185	Not listed	Not listed

Section 16: Other Information

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END OF MSDS