

Safety Data Sheet

Section 1. Identification	
Product Identification and Item Numbers:	Blue tissue stain (BLU/1, BLU/2, BLU/8)
Product Description:	Blue liquid used in the staining of tissue samples.
Recommended use and restrictions on use:	N/A
Supplier:	Delasco 608 13 th Avenue Council Bluffs, IA 51501 1-712-323-3269 www.delasco.com questions@delasco.com
In Case of Emergency, Contact:	Chemtrec (24 hour) 1-800-424-9300

Section 2. Hazard(s) Identification	
Classification:	
Labeling:	
Hazard symbol(s):	
Signal word:	Warning!
Hazard statements:	
	H302: Harmful if swallowed H315: Causes skin irritation. H319: Causes serious eye irritation.
Precautionary statements:	
	P280: Wear protective gloves/protective clothing/eye protection/face protection. P264: Wash hands thoroughly after handling. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/attention. P302+352: IF ON SKIN: Wash with plenty of water

Section 3. Composition/Information on Ingredients	
Chemical Name and Concentration:	Blue tissue stain (57-61% w/v)
Other Names, Common Names, Synonyms:	Mrs. Stewart's Bluing
CAS Number, other unique identifiers:	Mixture: Ethandionic Acid CAS# 144-62-7 Pigment Blue proprietary preservative CAS# 111-30-8 Water CAS# 7732-18-5
Other classified impurities or stabilizers:	N/A
Other ingredients posing health hazards:	N/A
Concentration of other hazardous ingredients:	N/A

Section 4. First-aid Measures	
Inhalation exposure:	Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention
Skin exposure:	Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops, consult a physician.
Eye contact:	Immediately wash eyes with running water for 15 min. If irritation develops, consult a physician.
Ingestion:	If swallowed, dilute with water and induce vomiting. Never give fluids or induce vomiting if victim is unconscious or having convulsions. Get immediate medical attention.

Section 5. Fire Fighting Measures

Suitable / unsuitable extinguishing media:	Use powder, alcohol-resistant foam, water in large amounts, carbon dioxide.	
Specific hazards / combustion products:	Data not available for this mixture.	
Special protective equipment and precautions for fire-fighters:	No special equipment required.	
NFPA Hazard Classification	Health – 1 Flammability – 0 Instability – 0	0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe

Section 6. Accidental Release Measures

Personal precautions and protective equipment:	No special equipment required.
Environmental Precautions:	Do not flush down drain.
Containment / clean up methods:	Contain and collect spilled product. Dispose in accordance with Federal, State, and Local regulations. Dispose of empty containers by crushing or whatever means will prevent unauthorized reuse.

Section 7. Handling and Storage

Precautions for safe handling:	Keep container closed. Loosen closure cautiously before opening. Store in a cool, well ventilated place away from incompatible materials such as strong oxidizing agents, hot strong mineral acids and strong alkalis.
Conditions for safe storage:	Store at ambient temperature under atmospheric pressure.
Incompatibilities to avoid:	Mixing this product with strong alkalis, hot strong mineral acids, and strong oxidizing agents can cause product decomposition leading to release of ammonia and hydrogen cyanide gas in low concentrations.

Section 8. Exposure Controls and Personal Protection

OSHA Permissible Exposure Limit (PEL):	No data available for this mixture.
Threshold Limit Value (TLV):	No data available for this mixture.
Other exposure limits:	No data available for this mixture.
Engineering controls:	None required for normal product use.
Personal protective equipment:	None required for normal product use. Undiluted liquid will stain clothing and surfaces. Protection against staining may be desired.
Other personal protection measures:	Provide nearby eyewash station and safety shower.

Section 9. Physical and Chemical Properties

Appearance (physical state, color, etc.):	Blue liquid
Odor:	None
Odor threshold:	Data not available for this mixture.
pH:	Neutral
Melting point / freezing point:	Data not available for this mixture/ 32°F
Initial boiling point and boiling range:	>212°F
Flash point:	>212°F
Evaporation rate:	Similar to water
Flammability	Data not available for this mixture.
Upper / lower flammability or explosive limits:	Data not available for this mixture.
Vapor Pressure:	19.8 mmHg at 22°C
Vapor density:	1
Relative density:	1.0 g/mL
Solubility:	Miscible in water
Partition coefficient: n-octanol/water:	Data not available for this mixture.
Auto-ignition temperature:	Data not available for this mixture.
Decomposition temperature:	Data not available for this mixture.
Viscosity:	Data not available for this mixture.

Section 10. Stability and Reactivity

Chemical stability:	The product is stable.
Possibility of hazardous reactions:	Mixing this product with strong alkalis, hot strong mineral acids, and strong oxidizing agents can cause product decomposition leading to release of ammonia and hydrogen cyanide gas in low concentrations.
Conditions to avoid (static, shock, vibration...)	N/A
Incompatible materials:	Strong alkalis, hot, strong mineral acids, and strong oxidizing agents.
Hazardous decomposition products:	Mixing this product with strong alkalis, hot strong mineral acids, and strong oxidizing agents can cause product decomposition leading to release of ammonia and hydrogen cyanide gas in low concentrations.

Section 11. Toxicological Information

Routes of exposure:	Ingestion, inhalation, skin and/or eye contact.
Acute Symptoms (acute):	No data available for this mixture.
Symptoms (chronic): Chronic effects from short and long term exposure:	No known effects for undiluted liquid material mixture. Ethanedioic acid component can cause kidney damage by removal of calcium from the blood and obstructing renal tubules.
Numerical measures of toxicity (e.g., acute toxicity estimates):	Toxicity to Animals: 475 mg/kg oral-rat (male), 375 mg/kg oral-rat (female), LD50 - ethanedioic acid 20 gm/kg skin-rabbit (not lethal)-ethanedioic acid 0.82 g/kg oral-rat, LD50 - preservative 0.64 g/kg skin-rabbit LD50 - preservative
NTP carcinogen:	Not listed
EPA carcinogen:	Not listed
ACGIH carcinogen:	Not listed
IARC potential	Not listed

carcinogen:	
SHA carcinogen:	Not listed

Section 12. Ecological Information (Non-mandatory)

Ecotoxicity (aquatic and terrestrial, where available):	Not available.
Persistence and degradability:	Not available
Bioaccumulative potential:	Not available
Mobility in soil:	Not available
Other adverse effects:	Not available

Section 13. Disposal Considerations (Non-mandatory)

Safe methods of disposal:	Dispose of in accordance with federal, state and local environmental control regulations.
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Section 14. Transport Information (Non-mandatory)

US DOT	UN number:	N/A	Class:	N/A	Packing Group:	N/A
UN proper shipping name:			N/A			
Packing group, if applicable:			N/A			
Environmental hazards (marine pollutant, etc...)			N/A			
Special transport precautions:			N/A			

Section 15. Regulatory Information (Non-mandatory)

Specific safety, health, and environmental regulations:	N/A
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Section 16. Other information

Date of preparation or last revision:	September 12, 2018
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