


Safety Data Sheet

Section 1. Identification	
Product Identification and Item Numbers:	Red tissue stain (RED/1, RED/2, RED/8)
Product Description:	A red, liquid solution 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:	
Skin corrosion/irritation (Category 2) Serious eye damage/eye irritation (Category 1)	
Labeling:	
Hazard symbol(s):	 GHS05: corrosive
Signal word:	Danger!
Hazard statements:	
H315: Causes skin irritation.	
Precautionary statements:	
P264: Wash face, hands and any exposed skin thoroughly after handling. P282: Wear protective gloves/protective clothing/eye protection/face protection P302+P334: IF ON SKIN: wash with plenty of soap and water. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present	

Section 3. Composition/Information on Ingredients	
Chemical Name and Concentration:	2-Propanol 1-5% w/w% Ethanol,2-(dimethylamino) 1-5% w/w Monoethanolamine 1-5% w/w
Other Names, Common Names, Synonyms:	MWF-2059 HSHG LF Pantone® Rubine
CAS Number, other unique identifiers:	Mixture: 2-Propanol CAS# 67-63-0 Ethanol,2-(dimethylamino) CAS# 108-01-0 Monoethanolamine CAS# 67-63-0
Other classified impurities or stabilizers:	N/A
Other ingredients posing health hazards:	Ammonium hydroxide
Concentration of other hazardous ingredients:	<0.1%

Section 4. First-aid Measures	
Inhalation exposure:	Move to fresh air. If symptoms persist, call a physician.
Skin exposure:	Wash off with soap and water. Remove contaminated clothing. If irritation develops, get medical attention.
Eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Ingestion:	Rinse mouth. Consult a physician if necessary.

Section 5. Fire Fighting Measures	
Suitable / unsuitable extinguishing media:	Suitable: Water spray. Carbon dioxide (CO2). Dry chemical. Foam. Unsuitable: N/A
Specific hazards / combustion products:	Keep product and empty container away from heat and sources of ignition. In the event of fire and/or explosion do not breathe fumes. Thermal decomposition can lead to release of irritating gases and vapors.
Special protective equipment and precautions for fire-fighters:	Use personal protective equipment. Standard procedure for chemical fires.
NFPA Hazard Classification	Health – 1 Flammability – 1 Instability – 0 0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe

Section 6. Accidental Release Measures	
Personal precautions and protective equipment:	Ensure adequate ventilation.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Do not flush into surface water or sanitary sewer system. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.
Containment / clean up methods:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Prevent product from entering drains. Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum.

Section 7. Handling and Storage	
Precautions for safe handling:	Wear personal protective equipment. Handle in accordance with good industrial hygiene and safety practice. Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.
Conditions for safe storage:	Keep in properly labeled containers. Keep away from open flames, hot surfaces and sources of ignition. Keep container tightly closed in a dry and well-ventilated place.
Incompatibilities to avoid:	There are no incompatible materials.

Section 8. Exposure Controls and Personal Protection	
OSHA Permissible Exposure Limit (PEL):	2-Propanol TWA: 400 ppm / 980 mg/m ³ Monoethanolamine TWA: 3 ppm / 6 mg/m ³
Threshold Limit Value (TLV):	2-Propanol TWA: 200 ppm STEL: 400 ppm Monoethanolamine TWA: 3ppm STEL: 6 ppm
Other exposure limits:	2-Propanol – NIOSH IDLH 2000 ppm Monoethanolamine – NIOSH IDLH 30 ppm
Engineering controls:	Ensure adequate ventilation, especially in confined areas.
Personal protective equipment:	Eye/face protection Safety glasses with side-shields. Skin and body protection Protective gloves. Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Other personal protection measures:	Provide nearby eyewash station and safety shower.

Section 9. Physical and Chemical Properties	
Appearance (physical state, color, etc.):	Yellow liquid
Odor:	Mild ammonia
Odor threshold:	Data not available for this mixture
pH:	9.0-9.6
Melting point / freezing point:	0°C
Initial boiling point and boiling range:	100°C
Flash point:	>93°C
Evaporation rate:	Data not available for this mixture.
Flammability	Data not available for this mixture.
Upper / lower flammability or explosive limits:	Data not available for this mixture.
Vapor Pressure:	Data not available for this mixture.
Vapor density:	Data not available for this mixture.
Relative density:	8.6323 lbs/gal / 1.0344 g/mL
Solubility:	Dispersible 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:	Stable under normal conditions.
Possibility of hazardous reactions:	None under normal processing.
Conditions to avoid (static, shock, vibration...)	Heat, flames and sparks.
Incompatible materials:	There are no incompatible materials.
Hazardous decomposition products:	None under normal processing.

Section 11. Toxicological Information				
Routes of exposure:	Ingestion, inhalation, skin and/or eye contact.			
Acute Symptoms (acute):	Data not available for this mixture.			
Symptoms (chronic): Chronic effects from short and long term exposure:	Respiratory or skin sensitization No information available. Germ cell mutagenicity No information available. Carcinogenicity If any carcinogenic components are present, a table below will indicate which agencies have listed the substance as a carcinogen. Reproductive toxicity Not available. STOT - single exposure No information available. STOT - repeated exposure No information available. Aspiration hazard No information available.			
Numerical measures of toxicity (e.g., acute toxicity estimates):	Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
	Ethanol,2-(dimethylamino)	1803 mg/kg (Rat)		6.1 mg/L (Rat)
	2-Propanol	4396 mg/kg (Rat)	12800 mg/kg (Rat) 12870 mg/kg (Rabbit)	72.6 mg/L (Rat)
	Monoethanolamine	1720 mg/kg (Rat)	1025 mg/kg (Rabbit)	
	ATEmix (oral): 20022 mg/kg ATEmix (dermal): 15583 mg/kg ATEmix (inhalation-dust/mist): 23.5 mg/L			
NTP carcinogen:	No data available for this mixture.			
EPA carcinogen:	No data available for this mixture.			
ACGIH carcinogen:	No data available for this mixture.			
IARC potential carcinogen:	No data available for this mixture.			
OSHA carcinogen:	No data available for this mixture.			

Section 12. Ecological Information (Non-mandatory)					
Ecotoxicity (aquatic and terrestrial, where available):	Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
	2-Propanol	EC50 > 1000 mg/L 96h EC50 > 1000 mg/L 72 h			EC50 = 13299 mg/L 48 h
	Monoethanolamine	EC50 = 15 mg/L 72h			EC50 = 65mg/L 48h
	Ethanol,2-(dimethylamino)	EC50 = 35 mg/L 72h			EC50 = 98.77 mg/L 48h
Persistence and degradability:	Not available				
Bioaccumulative potential:	Not available				
Mobility in soil:	Component	Log Pow			
	2-Propanol	0.05			
	Monoethanolamine	-1.91			
	Ethanol,2-(dimethylamino)	-0.55			
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.

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

Section 16. Other information	
Date of preparation or last revision:	September 20, 2018