

Section 1. Product and Company Identification

Item Number.: s2210-1
 Common Name.: Miller's Elastin Stain
 Intended Use.: In Vitro Diagnostic use. Laboratory Use Only
 IN CASE OF EMERGENCY, CONTACT: CHEMTREC (24HR) 800-424-9300

Manufacturer.: Poly Scientific R&D Corp.

70 Cleveland Ave
 Bay Shore NY 11706

polyrnd@polyrnd.com

Section 2. Hazard Identification

290 Corrosive to Metals Cat 1,
 302 Acute toxicity, oral Cat 4
 315 Skin corrosion/irritation Cat 2
 318 Serious eye damage/eye irritation Cat 1
 335 Specific target organ toxicity, single exposure; Respiratory tract irritation Cat 3
 350 Carcinogenicity Cat 1A, 1B
 370 Specific target organ toxicity, single exposure Cat 1

**Danger**

May be corrosive to metals. Harmful if swallowed. Causes skin irritation and serious eye irritation. May cause respiratory irritation. May cause cancer. Causes damage to organs. Obtain special instructions before use. Do not handle until all precautions have been and understood. Wash hands/skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fumes/gas/mist/vapors/spray. Wash hands/skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Use only in a well-ventilated area. In case of inadequate ventilation wear respiratory ventilation. Keep in original container. If ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: : Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Absorb spillage to prevent material damage. Store locked up. Keep container tightly closed. Dispose of contents /container to an approved waste disposal plant.

Hazards not otherwise covered by GHS: None

Section 3. Composition Information

Exposure Limits(A blank value indicates no information available) The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Component	CAS#	PEL(mg/m3)	STEL(mg/m3)	CEIL(mg/m3)	Concentration Range
Ethyl Alcohol	64-17-5		1,900.00		>50%
Hydrochloric Acid	7647-01-0	5.00		5.00	<5%
Resorcinol	108-46-3	20.00	10.00		<5%
Ferric Chloride	10025-77-1				<5%
Isopropyl Alcohol	67-63-0	1,225.00	980.00		<5%
Methyl Alcohol	67-56-1	325.00	260.00		<5%

Section 4. First Aid Measures

Eye Contact : Check for and remove contact lenses. Wash with large amounts of water for 15 minutes. Seek medical attention.
 Skin Contact : Remove contaminated clothing and shoes. Wash the affected area with large with soap and water. Seek medical attention
 Ingestion : Give two glasses of water to a conscious victim. Do not induce vomiting. Seek medical attention
 Inhalation : Move person to fresh air. If necessary give CPR; warning this could pose a risk of exposure to the rescue breather. Seek medical attention
 The most important known symptoms and effects are described in section 2 and/or section 11.

Section 5. Fire Fighting Measures

Extinguishing Media.: Dry Chemical, Foam, or Carbon Dioxide
 Special Fire and Explosion Remarks.: N/A

Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special.: Take up with absorbent vermiculite
 Spill Cleanup.: Take up spills with absorbant material and containerize for proper disposal. Use proper PPE as per section 8. Provide ventilation.

Section 7. Handling and Storage

Storage and Handling Special.: N/A
 Storage and handling.: Keep container tightly closed. Store in a cool, dry area and protect from physical damage

Section 8. Exposure Controls/Personal Protection

Personal Protective Equipment.: N/A
 This information is provided as a guide but proper PPE can only be determined by the end user and their situation.
 Engineering Controls.: Provide local exhaust ventilation to keep the airborne concentrations of vapors below their respective threshold limit values. Ensure that eyewash stations and safety showers are local to the work-station.

Section 9. Physical and Chemical Properties

Appearance.....: Clear black liquid	Evaporation Rate.....: N/A	Water Soluable?.....: Yes
Odor.....: N/A	Upper Flammability Limit (%): N/A	Volatile Percent.....: 100
Odor Threshold.....: N/A	Lower Flammability Limit (%): N/A	Partition Coefficient.....: n-octanol/water: N/A
pH.....: N/A	Specific Gravity (@20C).....: 0.791	Auto Ignition Temp.....: N/A
Melting Point.....: N/A	Vapor Pressure (mm Hg).....: 52	Decomposition Temp.....: N/A
Boiling Point.....: N/A	Vapor Density (Air=1).....: 106	Viscosity.....: N/A
Flash Point (F) TCC.....: N/A	Relative Density.....: N/A	

Section 10. Stability and reactivity

Special Remarks on Stability.: Stable

Special Remarks on Reactivity.: N/A

Water Reactive.: No

Section 11. Toxicological Information

Routes of Entry.: Inhalation, Ingestion, Skin Absorption

Animal Toxicity.: Hydrochloric Acid: Acute Oral (LD50) 900 mg/kg (Rat) Intraperitoneal (LD50) 1449 mg/kg (Mouse); Ethyl Ether: Acute Oral (LD50): 9750 mg/kg (Rat); Acute Dermal (LD50): 360 mg/kg (Rabbit); Resorcinol: N/A; Ferric Chloride: I.P. 260M g/kg (Mouse) I.V.(LDLO) 7mg/kg (Rabbit)

Human Toxic Effects.: Target Organs: Liver, kidneys, CNS, cardiovascular system

Potential Acute Health Effects.: Hazardous in case of inhalation, eye contact, skin contact, ingestion

Potential Chronic Health Effects.: Hydrochloric Acid: IARC Code 3; Resorcinol: IARC Code 3

Section 12. Ecological Information

Ecological Information.: N/A

Section 13. Disposal Considerations

Waste Disposal.: Dispose of in accordance with local, state and federal laws.

Section 14. Transport Information

DOT Identification.: UN1170, Ethanol Solutions, 3, II

Section 15. Regulatory Information

State Regulations.: New York release reporting list: Hydrochloric Acid

Component	CAS#	Sara Section 311 Reporting						SARA302	SARA313	CERCLA	RCRA
		Acute	Chronic	Fire	Pressure	Reactive					
Ethyl Alcohol	64-17-5	No	No	No	No	No	No	Yes	Yes	No	
Hydrochloric Acid	7647-01-0	No	No	No	No	No	Yes	Yes	Yes	No	
Resorcinol	108-46-3	No	No	No	No	No	No	No	Yes	No	
Ferric Chloride	10025-77-1	No	No	No	No	No	No	No	No	No	
Isopropyl Alcohol	67-63-0	No	No	No	No	No	No	Yes	No	No	
Methyl Alcohol	67-56-1	No	No	No	No	No	No	Yes	Yes	No	

Section 16. Other Information

Review Date: 3/15/2023

Reviewed by: Admin

MSDS Group Id.: 103

Notice: This SDS applies only to the material as packaged. If the material is altered by any means it may pose risks not mentioned here.

It is the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use.

While this SDS is based on reliable technical data, Poly Scientific R&D Corp. assumes no responsibility for the completeness or accuracy of the information contained herein.