

**Section 1. Product and Company Identification**

Item Number.: s175-1  
 Common Name.: Dichromate Cleaning Solution  
 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  
 301 Acute toxicity, oral Cat 3  
 310 Acute toxicity,dermal Cat 1, 2  
 314 Skin corrosion/irritation Cat 1A, B, C  
 330 Acute toxicity,inhalation Cat 1, 2  
 340 Germ cell mutagenicity Cat 1A, 1B  
 350 Carcinogenicity Cat 1A, 1B  
 360 Reproductive toxicity Cat 1A, 1B  
 370 Specific target organ toxicity, single exposure Cat 1

**Danger**

May be corrosive to metals. Toxic if swallowed. Fatal in contact with skin. Causes severe skin burns and eye damage. Fatal if inhaled. May cause genetic defects, cancer. May damage fertility or the unborn child. Causes damage to organs.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces.-No smoking. Use only in well-ventilated area. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands/skin thoroughly after handling. Do not eat, drink or smoke when using this product. Don't get in eyes or on skin/clothing. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection. Keep only in original container tightly closed, locked up in well ventilated-area and cool. Absorb spillage to prevent material damage. Keep/store away from clothing/combustible materials. Take precaution to avoid mixing with combustibles. Use water to extinguish. Do not use dry chemicals or foams. CO2 or Halon may provide limited control. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do not induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. 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. Immediately call a POISON CENTER or doctor/physician. If exposed: Call a POISON CENTER or doctor/physician. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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
Sulfuric Acid	7664-93-9	3.00	1.00		10-25%
Potassium Dichromate	7778-50-9		0.05		5-10%

**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, Carbon Dioxide, Water Spray, Fog or Alcohol Foam  
 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...: Safety Glasses, Gloves, Vapor Respirator  
 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.....: Red liquid	Evaporation Rate.....: N/A	Water Soluable? .....: Yes
Odor.....: N/A	Upper Flammability Limit (%): N/A	Volatile Percent .....: N/A
Odor Threshold .....: N/A	Lower Flammability Limit (%): N/A	Partition Coefficient .....: n-octanol/water: N/A
pH .....: N/A	Specific Gravity (@20C) .....: N/A	Auto Ignition Temp. ....: N/A
Melting Point.....: N/A	Vapor Pressure (mm Hg) .....: N/A	Decomposition Temp.....: N/A
Boiling Point.....: N/A	Vapor Density (Air=1) .....: N/A	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, Skin Absorption, Ingestion

Animal Toxicity.: Sulfuric Acid: Acte Oral (LD50) 2140 mg/kg (Rat) Inhalation (LC50) 18 mg/m3 (Guinea Pig); Potassium Dichromate: Acute Oral (LD50) 190 mg/kg (Mouse) Intraper (LD50) 37 mg/kg (Mouse)

Human Toxic Effects.: Target Organs: Kidneys, Heart, Lungs, Respiratory System, GI Tract

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

Potential Chronic Health Effects.: Sulfuric Acid: NTP Code1; Potassium Dichromate: NTP Code 1

**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.: UN2796, Sulfuric Acid, 8, II

**Section 15. Regulatory Information**

State Regulations.: New York Release reporting list: Sulfuric Acid

Component	CAS#	Sara Section 311 Reporting						SARA302	SARA313	CERCLA	RCRA
		Acute	Chronic	Fire	Pressure	Reactive					
Sulfuric Acid	7664-93-9	No	No	No	No	No	Yes	Yes	Yes	No	
Potassium Dichromate	7778-50-9	No	No	No	No	No	No	Yes	Yes	No	

**Section 16. Other Information**

Review Date : 3/15/2023

Reviewed by : Admin

MSDS Group Id.: 46

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&amp;D Corp. assumes no responsibility for the completeness or accuracy of the information contained herein.