

Section 1. Product and Company Identification

Item Number.: s2580-1
 Common Name.: Barium Chloride 2.5% Formalin
 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

225 Flammable Liquids Cat 2
 301 Acute toxicity, oral Cat 3
 315 Skin corrosion/irritation Cat 2
 317 Sensitiser, Skin Cat 1
 318 Serious eye damage/eye irritation Cat 1
 332 Acute toxicity, inhalation Cat 4
 336 Specific target organ toxicity, single exposure; Narcotic effects Cat 3
 350 Carcinogenicity Cat 1A, 1B

**Danger**

Highly flammable and liquid vapour. Toxic if swallowed. Causes skin irritation. May cause allergic skin reaction. Causes serious eye damage. Harmful if inhaled. May cause drowsiness or dizziness. May cause cancer.

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. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands/skin thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash hands/skin thoroughly after handling. Store locked up, tightly closed in a well ventilated-area and cool. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. Use only in well-ventilated area. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. IF ON SKIN: Remove/Take off immediately all contaminated clothing and wash before reuse. Wash with plenty of water and soap/shower. If skin irritation or rash occurs: Get medical advice/attention. 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 or concerned: Get medical advice/attention. 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
Isopropyl Alcohol	67-63-0	1,225.00	980.00		<5%
Formaldehyde	67-63-0	0.37	2.00		<5%
Methanol	67-56-1	300.00	260.00		<5%
Barium Chloride	10361-37-2		0.50		<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.: Use Dry Chemical, Foam or Carbon Dioxide.
 Special Fire and Explosion Remarks ...: N/A

Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special ...: Clean up staff use protective clothing and respiratory protection. Use water spray to disperse vapors, flush spills. Pick up with abs
 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.....: Colorless liquid	Evaporation Rate.....: N/A	Water Soluable?.....: Yes
Odor.....: Characteristic	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).....: 0.78	Auto Ignition Temp.....: N/A
Melting Point.....: N/A	Vapor Pressure (mm Hg).....: 33	Decomposition Temp.....: N/A
Boiling Point.....: N/A	Vapor Density (Air=1).....: 2.1	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, Absorption

Animal Toxicity.: Isopropyl Alc: Acute Oral (LD50) 5045 mg/kg (Rat); Formaldehyde: Acute Oral (LD50) 800 mg/kg (Rat) Acute Dermal (LD50) 0.27 gm/kg (Rabbit); Methanol: Acute Oral (LD50) 6.2-13.0 gm/kg (Rat); Barium Chloride: Acute Oral (LD50) 118 mg/kg (Rat)

Human Toxic Effects.: Target Organs: Mucous membranes, Lungs, Kidneys, CNS

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

Potential Chronic Health Effects.: Formaldehyde: OSHA Carcinogen; IARC Code 3; NTP Code 2; Isopropyl Alcohol: 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.: Non Hazardous

Section 15. Regulatory Information

State Regulations.: New York release reporting list: Methanol, Formaldehyde

Component	CAS#	Sara Section 311 Reporting						SARA302	SARA313	CERCLA	RCRA
		Acute	Chronic	Fire	Pressure	Reactive					
Isopropyl Alcohol	67-63-0	No	No	No	No	No	No	Yes	No	No	
Formaldehyde	67-63-0	No	No	No	No	No	Yes	Yes	Yes	No	
Methanol	67-56-1	No	No	No	No	No	No	Yes	Yes	No	
Barium Chloride	10361-37-2	No	No	No	No	No	No	No	No	No	

Section 16. Other Information

Review Date : 3/15/2023

Reviewed by : Admin

MSDS Group Id.: 329

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.