

Section 1. Product and Company Identification

Item Number: s172-1
 Common Name: Decalcifying Fixative (HCL-Formic Acid In 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
 631-586-0400
 polyrnd@polyrnd.com
 www.polyrnd.com

Section 2. Hazard Identification

227 Flammable Liquids Cat 4
 290 Corrosive to Metals Cat 1
 302 Acute toxicity, oral Cat 4
 315 Skin corrosion/irritation Cat 2
 317 Sensitiser, Skin Cat 1
 318 Serious eye damage/eye irritation Cat 1
 341 Germ cell mutagenicity Cat 2
 350 Carcinogenicity Cat 1A, 1B
 370 Specific target organ toxicity, single exposure Cat 1



Danger

Combustible liquid. May be corrosive to metals. Harmful if swallowed.
 Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing genetic defects. May cause cancer. Causes damage to organs.

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. IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. 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. Immediately call a POISON CENTER or doctor/ physician.
 If skin irritation or rash occurs: Get medical advice/ attention. If exposed: Call a POISON CENTER or doctor/ physician. Take off contaminated clothing and wash before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. Store in a well-ventilated place and kept cool. Keep in original container. Absorb spillage to prevent material damage. 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)

Component	CAS#	PEL(mg/m ³)	STEL(mg/m ³)	CEIL(mg/m ³)	Concentration Range
Hydrochloric Acid	7647-01-0	5.00		5.00	0-5%
Formic Acid	64-18-6	10.00	9.00		0-5%
Methanol	67-56-1	325.00	260.00		0-5%
Formaldehyde	50-00-0	0.37	2.00		0-5%

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, Water Spray, Fog, Carbon Dioxide or Alcoholic Foam
 Special Fire and Explosion Remarks: N/A

Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special: Pick up with 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: Splash Goggles, Gloves, Synthetic Apron, 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.....: clear colorless	Evaporation Rate.....: N/A	Water Soluable?.....: Yes
Odor.....: Pungent, suffocating	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).....: 1.047	Auto Ignition Temp.....: N/A
Melting Point.....: N/A	Vapor Pressure (mm Hg).....: 152	Decomposition Temp.....: N/A
Boiling Point.....: N/A	Vapor Density (Air=1).....: 0.83	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: Formic Acid: Acute Oral (LD50) 1100 mg/kg (Rat) Inhalation (LC50) 15 gm/m³/15gm (Rat); Hydrochloric Acid: Acute Oral (LD50): 900 mg/kg (Rat); Formaldehyde: Acute Oral (LD50) 42 mg/kg (Mouse) Acute Dermal (LD50) 0.27 mg/kg (Rabbit); Methanol: Acute Oral (LD50) 6.2-13 mg/kg (Rat)

Human Toxic Effects: Target Organs: Skin, Eyes, Respiratory System

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

Potential Chronic Health Effects: Mutagenic. Hydrochloric Acid: IARC Code 3; Formaldehyde: OSHA Carcinogen; IARC Code 3; NTP Code 2

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: UN1789; Hydrochloric acid; 8, II

Section 15. Regulatory Information

State Regulations: New York Release reporting list: Hydrochloric Acid, Formic Acid, Methanol, Formaldehyde

Sara Section 311 Reporting

Component	CAS#	Acute	Chronic	Fire	Pressure	Reactive	SARA302	SARA313	CERCLA	RCRA
Hydrochloric Acid	7647-01-0	No	No	No	No	No	Yes	Yes	Yes	No
Formic Acid	64-18-6	No	No	No	No	No	No	Yes	Yes	No
Methanol	67-56-1	No	No	No	No	No	No	Yes	Yes	No
Formaldehyde	50-00-0	No	No	No	No	No	Yes	Yes	Yes	No

Section 16. Other Information

Review Date: 12/17/2015

Reviewed by: ddi

MSDS Group Id: 42

Notice: This MSDS 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 MSDS is based on reliable technical data, Poly Scientific R&D Corp. assumes no responsibility for the completeness or accuracy of the information contained herein.