SAFETY DATA SHEET

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

polyrnd@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 Sensitisian, Skin Cat 1
318 Serious eye damage/eye irritation Cat 1
341 Germ cell mutagencity Cat 2
350 Carcinogenicity Cat 1A, 1B
370 Specific target organ toxicity, single exposure Cat 1

Danger
Combustible liquid. Corrosive to metals. Harmful if swallowed. Causes skin irritation/allergic reaction/serious eye damage. May cause genetic defects/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) 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
Hydrochloric Acid	7647-01-0	5.00		5.00	<5%
Formic Acid	64-18-6	10.00	9.00		<5%
Methanol	67-56-1	325.00	260.00		<5%
Formaldehyde	50-00-0	0.37	2.00		<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 neccessary 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

Appearence.....: Colorless liquid
Odor.....: Pungent, suffocating
Odor Threshhold.....: N/A
pH .....: N/A
Melting Point.....: N/A
Boiling Point.....: N/A
Flash Point (F) TCC.....: N/A

Evaporation Rate.....: N/A
Upper Flammability Limit (%).: N/A
Lower Flammability Limit (%) : N/A
Specific Gravity (@20C) .....: 1.047
Vapor Pressure (mm Hg).....: 152
Vapor Density (Air=1) .....: 0.83
Relative Density .....: N/A

Water Soluable?.....: Yes
Volatile Percent .....: 100
Partition Coefficient.....: n-octanol/water: N/A
Auto Ignition Temp. .....: N/A
Decomposition Temp.....: N/A
Viscosity .....: N/A

Section 10. Stability and reactivity

Special Remarks on Stability..: Stable

Special Remarks on Reactivity..: N/A

Water Reactive.: No

Section 11. Toxological Information

Routes of Entry.: Inhalation, Skin absorbtion, 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 : 3/15/2023
Reviewed by : Admin
MSDS Group Id.: 42

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 responcibility to develope 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 responcibility for the completeness or accuracy of the information contained herein.