

## Section 1. Product and Company Identification

Item Number: s171-1  
 Common Name: Decalcifying Solution Formic-HCL In Distilled Water  
 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

290 Corrosive to Metals Cat 1,  
 302 Acute toxicity, oral Cat 4  
 314 Skin corrosion/irritation Cat 1A, B, C  
 335 Specific target organ toxicity, single exposure; Respiratory tract irritation Cat 3  
 370 Specific target organ toxicity, single exposure Cat 1



Danger

May be corrosive to metals. Harmful if swallowed. Causes severe skin burns and eye damage. May cause respiratory irritation. Causes damage to eyes, blood and CNS.

Do not breathe dust/fume/gas/mist/vapours/spray. Do not breathe dust/fume/gas/mist/vapours/spray. Use only in well-ventilated area. In case of inadequate ventilation wear respiratory ventilation. Wash hands/skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Keep container tightly closed, in original container, locked up in well ventilated-area and cool. Absorb spillage to prevent material damage. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. If exposed: Call a POISON CENTER or doctor/physician. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do not induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Wash skin with soap/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 INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. 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 <sup>3</sup> )	STEL(mg/m <sup>3</sup> )	CEIL(mg/m <sup>3</sup> )	Concentration Range
Hydrochloric Acid	7647-01-0	5.00		5.00	5-10%
Formic Acid	64-18-6	10.00	9.00		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 or Alcohol Foam

Special Fire and Explosion Remarks: N/A

## Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special: Neutralize with alkaline material (soda ash, lime) and take up spills with absorbent material

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.....	Strong	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).....	1.18	Auto Ignition Temp. ....	N/A
Melting Point.....	N/A	Vapor Pressure (mm Hg).....	190	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: 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);

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: Hydrochloric Acid: 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: UN1789; Hydrochloric acid; 8, II

## Section 15. Regulatory Information

State Regulations: New York release reporting list: Hydrochloric Acid, Formic Acid

## 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

## Section 16. Other Information

Review Date: 12/17/2015

Reviewed by: ddi

MSDS Group Id: 41

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