

Section 1. Product and Company Identification

Item Number: s2705-1
 Common Name: Carnoys Fixative w/ Ferric Chloride
 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

225 Flammable Liquids Cat 2
 290 Corrosive to Metals Cat 1
 302 Acute toxicity, oral Cat 4
 314 Skin corrosion/irritation Cat 1A, B, C
 331 Acute toxicity, inhalation Cat 3
 336 Specific target organ toxicity, single exposure; Narcotic effects Cat 3
 350 Carcinogenicity Cat 1A, 1B
 361 Reproductive toxicity Cat 2
 370 Specific target organ toxicity, single exposure Cat 1



Danger

Highly flammable liquid and vapour. May be corrosive to metals. Harmful if swallowed. Causes severe skin burns and eye damage. Toxic if inhaled. May cause drowsiness or dizziness. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to eyes, blood and CNS.

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. 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. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Keep container tightly closed, locked up in well ventilated-area and cool. Keep in original container. Take precautionary measures against static discharge. Absorb spillage to prevent material damage. Take off contaminated clothing and wash before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. 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. 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 skin irritation or rash occurs: 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)

Component	CAS#	PEL(mg/m3)	STEL(mg/m3)	CEIL(mg/m3)	Concentration Range
Ethyl Alcohol	64-17-5		19,000.00		25-50%
Methyl Alcohol	67-56-1		260.00		0-5%
Isopropyl Alcohol	67-63-0	1,225.00	980.00		0-5%
Glacial Acetic Acid	64-19-7	15.00	10.00		5-10%
Chloroform	67-66-3	9.78	2.00		25-50%
Ferric Chloride	10025-77-1		1.00		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 : Carbon Dioxide, Dry Chemical

Special Fire and Explosion Remarks : N/A

Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special : Warning! Flammable! Eliminate ignition sources. Take up spill 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 : Safety Goggles, 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	Evaporation Rate	Water Soluable?
Odor	Upper Flammability Limit (%) ..	Volatile Percent
Odor Threshold	Lower Flammability Limit (%) ..	Partition Coefficient
pH.....	Specific Gravity (@ 20C)	Auto Ignition Temp.
Melting Point	Vapor Pressure (mm Hg)	Decomposition Temp
Boiling Point	Vapor Density (Air=1)	Viscosity
Flash Point (F) TCC	Relative Density	

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 absorbtion, Ingestion

Animal Toxicity: Ethyl Alc: Acute Oral (LD50): 7060 mg/kg (Rat); Acute Dermal(LD50): 500 mg/24hr (Rabbit); Methyl Alc: Acute Oral (LD50): 5628 mg/kg (Rat); Acute Dermal (LLD50) 500mg/24hr (Rabbit); Isopropyl Alc: Acute Oral (LD50): 500 (Rabbit); Acute Oral (LD50): 3310 mg/kg (Rat); Acute Dermal(LD50): 1060 mg/kg (Rabbit); Chloroform: Acute Oral (LDLo) 140mg/kg (Human)

Human Toxic Effects: Target Organs: Respiratory system, skin, eyes, CNS, liver, blood and reproductive system

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

Potential Chronic Health Effects : Isopropyl Alcohol: IARC Code 3; Chloroform: IARC Code 2B; 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 : UN1170; Ethanol Solutions; 3; II

Section 15. Regulatory Information

State Regulations: New York release reporting list: Acetic Acid, Chloroform

Sara Section 311 Reporting

Component	CAS#	Acute	Chronic	Fire	Pressure	Reactive	SARA 302	SARA 313	CERCLA	RCRA
Ethyl Alcohol	64-17-5	No	No	No	No	No	No	Yes	Yes	No
Methyl Alcohol	67-56-1	No	No	No	No	No	No	Yes	Yes	No
Isopropyl Alcohol	67-63-0	No	No	No	No	No	No	Yes	No	No
Glacial Acetic Acid	64-19-7	No	No	No	No	No	No	No	Yes	No
Chloroform	67-66-3	No	No	No	No	No	Yes	Yes	Yes	No
Ferric Chloride	10025-77-1	No	No	No	No	No	No	No	No	No

Section 16. Other Information

Review Date: 12/1/2015

Reviewed by: ddi

MSDS Group Id : 23

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.