

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

Hazardous Materials Identification System

Health.....: 1
 Flammability.....: 0
 Reactivity.....: 0
 *PPE.....: c

*See Section 8

Section 1. Chemical Product and Company Identification

Item Number: S167-1
 Common Name: Congo Red 1% Aqueous
 Chemical Name(s): Congo Red
 Chemical Family: Amine, Aromatic
 Chemical Formula: Mixture

Section 2. Composition Information

Exposure Limits(A blank value indicates no information available)

Component	CAS#	PEL(mg/m3)	STEL(mg/m3)	CEIL(mg/m3)
Congo Red	573-58-0			

Section 3. Hazards Identification

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

Potential Chronic Health Effects: N/A

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

Section 5. Fire and Explosion Data

Flash Point (F) TCC: N/A

Lower Flammability Limit (%): N/A

Upper Flammability Limit (%): N/A

Extinguishing Media: Water, Dry Chemical, Alcoholic Type Foam

Special Fire and Explosion Remarks: N/A

Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special: Take up with absorbent vermiculite.

Spill Cleanup: Take up spills with absorbant material and containerize for proper disposal

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, Synthetic Apron

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

Note: N/A

Appearance: clear colorless

Odor: N/A

pH: N/A

Specific Gravity (@20C): N/A

Vapor Pressure (mm Hg).....: N/A

Vapor Density (Air=1): N/A

Volatile Percent.....: N/A

Water Soluable?.....: Yes

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: Acute Oral (LD50): 15200 mg/kg (Rat); I.V. (LDLo) 1429 ug/kg (Man); I.V. (LDLo) 160 mg/kg (Rat);

Human Toxic Effects: Target Organs: None

IN CASE OF EMERGENCY, CONTACT: CHEMTREC (24HR) 800-424-9300

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: N/A

Sara Section 311 Reporting

Component	CAS#	Acute	Chronic	Fire	Pressure	Reactive	SARA302	SARA313	CERCLA	RCRA
Congo Red	573-58-0	No	No	No	No	No	No	No	No	No

Section 16. Other Information

Review Date: 5/30/2013

Reviewed by: tsc

MSDS Group Id: 34

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.

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

Hazardous Materials Identification System

Health.....: 1
 Flammability.....: 0
 Reactivity.....: 0
 *PPE.....: b

*See Section 8

Section 1. Chemical Product and Company Identification

Item Number: s127-1
Common Name: Bluing Solution 1% Lithium Carbonate
Chemical Name(s): Lithium Carbonate
Chemical Family: Alkali Carbonates
Chemical Formula: Mixture

Section 2. Composition Information

Exposure Limits(A blank value indicates no information available)

Component	CAS#	PEL(mg/m3)	STEL(mg/m3)	CEIL(mg/m3)
Lithium Carbonate	554-13-2			

Section 3. Hazards Identification

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

Potential Chronic Health Effects: Mutagenic, Tumorigenic. Repeated exposure can produce target organ damage.

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

Section 5. Fire and Explosion Data

Flash Point (F) TCC: N/A

Lower Flammability Limit (%): N/A

Upper Flammability Limit (%): N/A

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: Take up spills with absorbent vermiculite

Spill Cleanup: Take up spills with absorbant material and containerize for proper disposal

Section 7. Handling and Storage

Storage and Handling Special: NA

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

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

Note: N/A

Appearance: clear colorless

Odor: N/A

pH: N/A

Specific Gravity (@20C): N/A

Vapor Pressure (mm Hg).....: N/A

Vapor Density (Air=1): N/A

Volatile Percent.....: N/A

Water Soluable?.....: Yes

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: Ingestion, Skin absorbtion

Animal Toxicity: Acute Oral (LD50); 525 mg/kg (Rat). No exposure limits established by OSHA, ACGIH or NIOsh.

Human Toxic Effects: Target Organs: Central Nervous System

IN CASE OF EMERGENCY, CONTACT: CHEMTREC (24HR) 800-424-9300

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: N/A

Sara Section 311 Reporting

Component	CAS#	Acute	Chronic	Fire	Pressure	Reactive	SARA302	SARA313	CERCLA	RCRA
Lithium Carbonate	554-13-2	No	No	No	No	No	No	Yes	No	No

Section 16. Other Information

Review Date: 5/29/2013

Reviewed by: tsc

MSDS Group Id: 24

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.

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

Hazardous Materials Identification System

Health.....: 1
Flammability.....: 1
Reactivity.....: 0
***PPE**.....: c

*See Section 8

Section 1. Chemical Product and Company Identification

Item Number: s216-1
Common Name: Mayer's Modified Hematoxylin
Chemical Name(s): Hematoxylin, Glycerine, /
Chemical Family: Organic Dye; Oil Derivat
Chemical Formula: Mixture

Section 2. Composition Information**Exposure Limits(A blank value indicates no information available)**

Component	CAS#	PEL(mg/m3)	STEL(mg/m3)	CEIL(mg/m3)
Glycerine	56-81-5		15.00	
Hematoxylin	517-28-2			
Aluminum Potassium Sulf	7784-24-9			

Section 3. Hazards Identification

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

Potential Chronic Health Effects: N/A

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

Section 5. Fire and Explosion Data

Flash Point (F) TCC: N/A

Lower Flammability Limit (%): N/A

Upper Flammability Limit (%): N/A

Extinguishing Media: Dry Chemical, Carbon Dioxide, Water Spray, or Foam

Special Fire and Explosion Remarks: N/A

Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special: Eliminate ignition sources. Take up spills with absorbent material

Spill Cleanup: Take up spills with absorbant material and containerize for proper disposal

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, Synthetic Apron

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

Note: N/A

Appearance: clear purple

pH.....: N/A

Vapor Pressure (mm Hg).....: N/A

Volatile Percent.....: N/A

Odor: N/A

Specific Gravity (@20C).....: N/A

Vapor Density (Air=1).....: N/A

Water Soluable?.....: Yes

Section 10. Stability and reactivity

Special Remarks on Stability: Stable

Special Remarks on Reactivity: N/A

Water Reactive: No

IN CASE OF EMERGENCY, CONTACT: CHEMTREC (24HR) 800-424-9300

Section 11. Toxicological Information**Routes of Entry:** Inhalation, Skin Absorption, Ingestion**Animal Toxicity:** Glycerin: Acute Oral (LD50) 4090 mg/kg (Rat) Intravenous (LD50) 53 gm/kg (Rabbit); Hematoxylin: Acute Oral (TDLO) 400 gn**Human Toxic Effects:** Target Organs: Nerves, Kidneys, Eyes, Skin**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: N/A

Sara Section 311 Reporting

Component	CAS#	Acute	Chronic	Fire	Pressure	Reactive	SARA302	SARA313	CERCLA	RCRA
Glycerine	56-81-5	No	No	No	No	No	No	No	No	No
Hematoxylin	517-28-2	No	No	No	No	No	No	No	No	No
Aluminum Potassium Sulfate	7784-24-9	No	No	No	No	No	No	No	No	No

Section 16. Other Information**Review Date:** 5/30/2013**Reviewed by:** tsc**MSDS Group Id:** 71**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.

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

Hazardous Materials Identification System

Health.....: 3
Flammability.....: 3
Reactivity.....: 0
***PPE**.....: h

*See Section 8

Section 1. Chemical Product and Company Identification

Item Number: s104-1
Common Name: Acid Alcohol 1%
Chemical Name(s): Ethyl Alcohol, Methyl Alc
Chemical Family: Acid
Chemical Formula: Mixture

Section 2. Composition Information**Exposure Limits(A blank value indicates no information available)**

Component	CAS#	PEL(mg/m3)	STEL(mg/m3)	CEIL(mg/m3)
Isopropyl Alcohol	67-63-0	1,225.00	980.00	
Ethyl Alcohol	64-17-5		1,900.00	
Hydrochloric Acid	7647-01-0	5.00		5.00
Methyl Alcohol	67-56-1	325.00	260.00	

Section 3. Hazards Identification

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

Potential Chronic Health Effects: Isopropyl Alcohol: IARC Code 3; Hydrochloric Acid: IARC Code 3

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

Section 5. Fire and Explosion Data

Flash Point (F) TCC: N/A

Lower Flammability Limit (%): N/A

Upper Flammability Limit (%): N/A

Extinguishing Media: Dry Chemical Powder, Alcohol Foam, Carbon Dioxide

Special Fire and Explosion Remarks: N/A

Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special: Warning! Corrosive. Warning! Flammable! Eliminate ignitions. Take up spills with absorbent material.

Spill Cleanup: Take up spills with absorbant material and containerize for proper disposal

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: Gloves, Splash Goggles, Vapor Respirator, Apron

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

Note: Quantative data below for

Appearance.....: clear colorless

Odor.....: Strong

pH.....: N/A

Specific Gravity (@20C).....: .791

Vapor Pressure (mm Hg).....: 52

Vapor Density (Air=1).....: 1.6

Volatile Percent.....: 100

Water Soluable?.....: Yes

Section 10. Stability and reactivity

Special Remarks on Stability: Stable

Special Remarks on Reactivity: N/A

Water Reactive: No

IN CASE OF EMERGENCY, CONTACT: CHEMTREC (24HR) 800-424-9300

Section 11. Toxicological Information**Routes of Entry:** Inhalation, Skin absorption, Ingestion**Animal Toxicity:** Ethyl Ether: Acute Oral (LD50): 9750 mg/kg (Rat); Acute Dermal (LD50): 360 mg/kg (Rabbit); Acetone: : Acute Oral (LD50): 9.7**Human Toxic Effects:** Target Organs: Respiratory system, skin, eyes, CNS, liver, blood and reproductive system**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: Hydrochloric Acid

Sara Section 311 Reporting

Component	CAS#	Acute	Chronic	Fire	Pressure	Reactive	SARA302	SARA313	CERCLA	RCRA
Isopropyl Alcohol	67-63-0	No	No	No	No	No	No	Yes	No	No
Ethyl Alcohol	64-17-5	No	No	No	No	No	No	Yes	Yes	No
Hydrochloric Acid	7647-01-0	No	No	No	No	No	Yes	Yes	Yes	No
Methyl Alcohol	67-56-1	No	No	No	No	No	No	Yes	Yes	No

Section 16. Other Information**Review Date:** 5/29/2013**Reviewed by:** tsc**MSDS Group Id:** 5**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.