

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
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 www.polyrnd.com

Hazardous Materials Identification System

Health.....: 3
 Flammability.....: 2
 Reactivity.....: 1
 *PPE.....: g

*See Section 8

Section 1. Chemical Product and Company Identification

Item Number: s101-1
Common Name: Acetic Acid 3% Aqueous
Chemical Name(s): Acetic Acid, Glacial
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)
Acetic Acid, Glacial	64-19-7	15.00	10.00	

Section 3. Hazards Identification

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

Potential Chronic Health Effects: Mutagenic for yeast and bacteria. 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 Powder, Alcohol Foam, Water Spray or Fog

Special Fire and Explosion Remarks: N/A

Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special: Caution! Corrossive, neutralize with Sodium Bicarbonate or similar

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

Section 7. Handling and Storage

Storage and Handling Special: Refrigerate

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: Quantitative data below is

Appearance

pH.....: N/A

Vapor Pressure (mm Hg).....: 11

Volatile Percent.....: 100

Odor

Specific Gravity (@20C).....: 1.05

Vapor Density (Air=1).....: 2.1

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): 3310 mg/kg (Rat); Acute Dermal(LD50): 1060 mg/kg (Rabbit); Acute Vapor(LC50): 5620 1hr(mouse)

Human Toxic Effects: Target Organs: Lungs, mucous membranes, upper respiratory tract, skin,eyes,teeth

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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 InformationState Regulations: New York release reporting list: Acetic Acid
Sara Section 311 Reporting

Component	CAS#	Acute	Chronic	Fire	Pressure	Reactive	SARA302	SARA313	CERCLA	RCRA
Acetic Acid, Glacial	64-19-7	No	No	No	No	No	No	No	Yes	No

Section 16. Other Information

Review Date: 5/29/2013

Reviewed by: tsc

MSDS Group Id: 1

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.

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Health.....: 3
 Flammability.....: 2
 Reactivity.....: 1
 *PPE.....: g

*See Section 8

Section 1. Chemical Product and Company Identification

Item Number: s111a-1

Common Name: Alcian Blue 1% in 3% Acetic Acid pH 2.5

Chemical Name(s): Glacial Acetic Acid, Alcian

Chemical Family: Acetic Phenol

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)
Acetic Acid, Glacial	64-19-7	15.00	10.00	
Alcian Blue	33864-99-2			

Section 3. Hazards Identification

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

Potential Chronic Health Effects: 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: Water, Dry Chemical, Foam or Carbon Dioxide

Special Fire and Explosion Remarks: N/A

Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special: Water spray to disperse vapors, flush spills, pick up 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, 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

Note: Quantative data below is:

Appearance.....: clear blue

pH.....: N/A

Vapor Pressure (mm Hg).....: 11

Volatile Percent.....: 100

Odor.....: Slight vinegar

Specific Gravity (@20C).....: 1.05

Vapor Density (Air=1).....: 2.1

Water Soluable?.....: Yes

Section 10. Stability and reactivity

Special Remarks on Stability: Stable

Special Remarks on Reactivity: N/A

Water Reactive: No

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Section 11. Toxicological Information**Routes of Entry:** Inhalation, Skin absorption, Ingestion**Animal Toxicity:** Acute Oral (LD50): 3310 mg/kg (Rat); Acute Dermal(LD50): 1060 mg/kg (Rabbit); Alcian Blue: Toxicological properties have not I**Human Toxic Effects:** Target Organs: Lungs, mucous membranes, upper respiratory tract, skin, eyes, teeth**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: Glacial Acetic Acid
Sara Section 311 Reporting

Component	CAS#	Acute	Chronic	Fire	Pressure	Reactive	SARA302	SARA313	CERCLA	RCRA
Acetic Acid, Glacial	64-19-7	No	No	No	No	No	No	No	Yes	No
Alcian Blue	33864-99-2	No	No	No	No	No	No	No	No	No

Section 16. Other Information**Review Date:** 6/26/2013**Reviewed by:** tsc**MSDS Group Id:** 9**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.

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Hazardous Materials Identification System

Health.....: 2
Flammability.....: 0
Reactivity.....: 0
***PPE**.....: g

*See Section 8

Section 1. Chemical Product and Company Identification

Item Number: s248-1
Common Name: Nuclear Fast Red Kernechtrot 0.1%
Chemical Name(s): Aluminum Sulfate
Chemical Family: Inorganic Salt
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)
Aluminum Sulfate	7784-31-8		2.00	

Section 3. Hazards Identification

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

Potential Chronic Health Effects: Repeated or prolonged exposure to the substance can produce target organs 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: use Dry Chemical, Carbon Dioxide, Water Spray, Alcohol Foam

Special Fire and Explosion Remarks: N/A

Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special: Pick up spill 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, 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

Note: N/A

Appearance.....: clear reddish

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 Absorption, Ingestion

Animal Toxicity: Acute Oral (LD50) 6207 mg/kg (Mouse) Intravenous (LD50) 1735 mg/kg (Mouse)

Human Toxic Effects: Target Organs: Central Nervous System

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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 InformationState Regulations: New York release reporting list: Aluminum Sulfate
Sara Section 311 Reporting

Component	CAS#	Acute	Chronic	Fire	Pressure	Reactive	SARA302	SARA313	CERCLA	RCRA
Aluminum Sulfate	7784-31-8	No	No	No	No	No	No	No	Yes	No

Section 16. Other Information

Review Date: 5/31/2013

Reviewed by: tsc

MSDS Group Id: 92

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