

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



**Manufacturer: Poly Scientific R&D Corp**  
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 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:** s2028-1  
**Common Name:** Uranyl Nitrate Alcoholic Solution  
**Chemical Name(s):** Ethyl Alcohol, Methyl Alc  
**Chemical Family:** Inorganic Salt; Alcohols  
**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)
Methyl Alcohol	67-56-1	325.00	260.00	
Ethyl Alcohol	64-17-5		1,900.00	
Isopropyl Alcohol	67-63-0	1,225.00	980.00	
Uranyl Nitrate Hexahydra	13520-83-7	0.60	0.20	

## Section 3. Hazards Identification

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

**Potential Chronic Health Effects:** Isopropyl Alcohol: 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, Carbon Dioxide, Water Spray or Foam

**Special Fire and Explosion Remarks:** N/A

## Section 6. Accidental Release Measures

**Spill Cleanup and Disposal Special:** Pick 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:** 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:** 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

**Note:** Half life or Uranyl Nitrate ·

**Appearance** .....: clear light yellow

**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

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**Section 11. Toxicological Information****Routes of Entry:** Inhalation, Skin Absorption, Ingestion**Animal Toxicity:** Ethyl Alcohol: Acute Oral (LD50) 7060 mg/kg (Rat) Acute Dermal 500mg/24hr (Rabbit); Methyl Alcohol: Acute Oral (LD50) 562**Human Toxic Effects:** Target Organs: Respiratory System, Blood, Liver, Kidneys, Lymphatic, Skin, Bone Marrow**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: Uranyl Nitrate  
**Sara Section 311 Reporting**

Component	CAS#	Acute	Chronic	Fire	Pressure	Reactive	SARA302	SARA313	CERCLA	RCRA
Methyl Alcohol	67-56-1	No	No	No	No	No	No	Yes	Yes	No
Ethyl Alcohol	64-17-5	No	No	No	No	No	No	Yes	Yes	No
Isopropyl Alcohol	67-63-0	No	No	No	No	No	No	Yes	No	No
Uranyl Nitrate Hexahydra	13520-83-7	No	No	No	No	No	No	No	Yes	No

**Section 16. Other Information****Review Date:** 5/30/2013**Reviewed by:** tsc**MSDS Group Id:** 172**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.

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## Hazardous Materials Identification System

Health.....: 3  
 Flammability.....: 3  
 Reactivity.....: 0  
 \*PPE.....: g

\*See Section 8

## Section 1. Chemical Product and Company Identification

**Item Number:** S1818-1  
**Common Name:** Gum Mastic 10% Alcoholic  
**Chemical Name(s):** Ethyl Alcohol, Methyl Alc  
**Chemical Family:** Anacardiaceae; Alcohols  
**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)
Ethyl Alcohol	64-17-5		1,900.00	
Isopropyl Alcohol	67-63-0	1,225.00	980.00	
Gum Powder Arabic Mille	9000-01-5			
Methyl Alcohol	67-56-1	325.00	260.00	

## Section 3. Hazards Identification

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

**Potential Chronic Health Effects:** Isopropyl Alcohol: 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, Carbon Dioxide, 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:** 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:** 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:** Information below is for St

**Appearance**.....: clear amber

**Odor**.....: Characteristic

**pH**.....: N/A

**Specific Gravity (@20C)**.....: 0.791

**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

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**Section 11. Toxicological Information****Routes of Entry:** Inhalation, Skin Absorption, Ingestion**Animal Toxicity:** Ethyl Alc: Acute Oral (LD50): 7060 mg/kg (Rat); Acute Dermal(LD50): 500 mg/24hr (Rabbit); Methyl Alc: Acute Oral (LD50):562**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: N/A

**Sara Section 311 Reporting**

Component	CAS#	Acute	Chronic	Fire	Pressure	Reactive	SARA302	SARA313	CERCLA	RCRA
Ethyl Alcohol	64-17-5	No	No	No	No	No	No	Yes	Yes	No
Isopropyl Alcohol	67-63-0	No	No	No	No	No	No	Yes	No	No
Gum Powder Arabic Mille	9000-01-5	No	No	No	No	No	No	No	No	No
Methyl Alcohol	67-56-1	No	No	No	No	No	No	Yes	Yes	No

**Section 16. Other Information****Review Date:** 6/27/2013**Reviewed by:** tsc**MSDS Group Id:** 134**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.....: c

\*See Section 8

## Section 1. Chemical Product and Company Identification

**Item Number:** s1888-1  
**Common Name:** Silver Nitrate 1% Aqueous  
**Chemical Name(s):** Silver Nitrate  
**Chemical Family:** Nitrate  
**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)
Silver Nitrate	777		0.01	

## 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, Alcohol 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:** 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:** 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 Absorption, Ingestion

**Animal Toxicity:** Acute Oral (LD50) 05 mg/kg (Mouse); Intraperitoneal (LD50) 22 mg/kg (Mouse); Acute Oral (LD50) 20 mg/kg (Dog); Acute Ora

**Human Toxic Effects:** Target Organs: Nasal septum, Skin, Eyes

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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: 0; Non Hazardous Material; ; 0

**Section 15. Regulatory Information**State Regulations: New York release reporting list: Silver Nitrate  
Sara Section 311 Reporting

Component	CAS#	Acute	Chronic	Fire	Pressure	Reactive	SARA302	SARA313	CERCLA	RCRA
Silver Nitrate	777	No	No	No	No	No	No	Yes	Yes	No

**Section 16. Other Information**

Review Date: 6/27/2013

Reviewed by: tsc

MSDS Group Id: 155

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