

**Section 1. Product and Company Identification**

Item Number.: s103-1  
 Common Name.: Acetone Alcohol 1:1 Grams Decolorizer  
 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

polyrnd@polyrnd.com

**Section 2. Hazard Identification**

225 Flammable Liquids Cat 2  
 302 Acute toxicity, oral Cat 4  
 320 Serious eye damage/eye irritation Cat 2B  
 336 Specific target organ toxicity, single exposure; Narcotic effects Cat 3  
 370 Specific target organ toxicity, single exposure Cat 1



Danger

Highly flammable liquid and vapour. Harmful if swallowed. Causes eye irritation. May cause drowsiness or dizziness. Causes damage to eyes, blood and CNS.

Keep away from heat/sparks/open flames/hot surfaces.-No smoking. Avoid breathing 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. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. 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. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. 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 eye irritation persists: Get medical advice/attention. If exposed: 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) The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Component	CAS#	PEL(mg/m3)	STEL(mg/m3)	CEIL(mg/m3)	Concentration Range
Ethyl Alcohol	64-17-5		1,900.00		25-50%
Methyl Alcohol	67-56-1		260.00		0-5%
Isopropyl Alcohol	67-63-0	1,225.00	900.00		0-5%
Acetone	67-64-1		1,000.00		25-50%

**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.:

Special Fire and Explosion Remarks ...: Carbon Dioxide or dry che

**Section 6. Accidental Release Measures**

Spill Cleanup and Disposal Special ...: g! Extremely flammable! Eliminate ignition sources. Pick up spill with absorbent vermiculite

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 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**

Appearance.....: Colorless liquid	Evaporation Rate.....: N/A	Water Soluable? .....: Yes
Odor.....: Sharp, penetrating	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).....: 0.7915	Auto Ignition Temp.....: N/A
Melting Point.....: N/A	Vapor Pressure (mm Hg).....: 184	Decomposition Temp.....: N/A
Boiling Point.....: N/A	Vapor Density (Air=1).....: 2.1	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, Ingestion, Skin Absorption

Animal Toxicity.: Ethyl Alcohol: Acute Dermal 500mg/24hr (Rabbit); Methyl Alcohol: Acute Oral (LD50) 5628 mg/kg (Rat); Isopropyl Alcohol: Acute Oral (LD50) 5045 mg/kg (Rat); Acetone: Acute Oral (LD50) 9.75 (Rat) Acute Dermal (LD50) 20mg/kg (Rabbit);

Human Toxic Effects.: Target Organs: Liver, kidneys, skin, respiratory, GI tract, lungs, blood,

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

Potential Chronic Health Effects...: N/A

**Section 12. Ecological Information**

Ecological Information .:

**Section 13. Disposal Considerations**

Waste Disposal.: Dispose of in accordance with local, state and federal laws.

**Section 14. Transport Information**

DOT Identification .: UN1090, Acetone, 3, II

**Section 15. Regulatory Information**

State Regulations.: New York release reporting list: Acetone

Component	CAS#	Sara Section 311 Reporting									
		Acute	Chronic	Fire	Pressure	Reactive	SARA302	SARA313	CERCLA	RCRA	
Ethyl Alcohol	64-17-5	No	No	No	No	No	No	No	Yes	No	
Methyl Alcohol	67-56-1	No	No	No	No	No	Yes	Yes	No	No	
Isopropyl Alcohol	67-63-0	No	No	No	No	No	Yes	Yes	No	No	
Acetone	67-64-1	No	No	No	No	No	No	Yes	No	No	

**Section 16. Other Information**

Review Date : 3/14/2023

Reviewed by : Admin

MSDS Group Id.: 342

Notice: This SDS 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 SDS is based on reliable technical data, Poly Scientific R&D Corp. assumes no responsibility for the completeness or accuracy of the information contained herein.

**Section 1. Product and Company Identification**

Item Number.: s169-1  
 Common Name.: Crystal Violet Hucker's  
 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

polyrnd@polyrnd.com

**Section 2. Hazard Identification**

302 Acute toxicity, oral Cat 4  
 318 Serious eye damage/eye irritation Cat 1  
 350 Carcinogenicity Cat 1A, 1B



Danger!

Harmful if swallowed.

Causes serious eye damage.

May cause cancer.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and

understood. 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. IF

SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. 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 or concerned: Get medical advice/ attention.

Collect spillage. Store locked up. 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) The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Component	CAS#	PEL(mg/m3)	STEL(mg/m3)	CEIL(mg/m3)	Concentration Range
Ethyl Alcohol	64-17-5		1,900.00		10-25%
Crystal Violet	548-62-9				0-5%
Isopropyl Alcohol	67-63-0	1,225.00	980.00		0-5%
Methyl Alcohol	67-56-1	325.00	260.00		0-5%

**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.: Use Dry Chemical, Foam, or Carbon Dioxide

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 wit 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.: 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 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**

Appearance.....: Violet liquid	Evaporation Rate.....: N/A	Water Soluable? .....: Yes
Odor.....: Pleasant	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) .....: 0.791	Auto Ignition Temp. ....: N/A
Melting Point.....: N/A	Vapor Pressure (mm Hg) .....: 52	Decomposition Temp .....: N/A
Boiling Point.....: N/A	Vapor Density (Air=1) .....: 1.6	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.: 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):5045 mg/kg (Rat); Acute Dermal (LD50) 500mg (Rabbit); Crystal Violet: No occupational exposure limits established by OSHA, ACGIH or  
 Human Toxic Effects.: Target Organs: Respiratory system, skin, eyes, CNS, liver, blood and reproductive system

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

Potential Chronic Health Effects...: Isopropyl Alcohol: 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.: Non Hazardous

**Section 15. Regulatory Information**

State Regulations.: New York release reporting list: N/A

Component	CAS#	Sara Section 311 Reporting									
		Acute	Chronic	Fire	Pressure	Reactive	SARA302	SARA313	CERCLA	RCRA	
Ethyl Alcohol	64-17-5	No	No	No	No	No	Yes	Yes	No		
Crystal Violet	548-62-9	No	No	No	No	No	No	No	No		
Isopropyl Alcohol	67-63-0	No	No	No	No	No	Yes	No	No		
Methyl Alcohol	67-56-1	No	No	No	No	No	Yes	Yes	No		

**Section 16. Other Information**

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Reviewed by : Admin

MSDS Group Id.: 37

Notice: This SDS 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 SDS 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.

**Section 1. Product and Company Identification**

Item Number.: s234a-1  
 Common Name.: Lugol's Iodine Working Solution  
 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

polyrnd@polyrnd.com

**Section 2. Hazard Identification**

314 Skin corrosion/irritation Cat 1A, B, C  
 332 Acute toxicity, inhalation Cat 4  
 335 Specific target organ toxicity, single exposure; Respiratory tract irritation Cat 3  
 361 Reproductive toxicity Cat 2  
 370 Specific target organ toxicity, single exposure Cat 1



Danger

Causes severe skin burns and eye damage.

Harmful if inhaled. May cause respiratory irritation. Causes damage to organs. Suspected of damaging fertility or the unborn child.

Obtain special instructions before use. Do not handle until all precautions have been and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Keep container tightly closed, locked up in well ventilated-area and cool. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. IF SWALLOWED: 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 exposed: Call a POISON CENTER or doctor/physician. IF eye irritation persists: Get medical advice/attention. 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) The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Component	CAS#	PEL(mg/m3)	STEL(mg/m3)	CEIL(mg/m3)	Concentration Range
Iodine	7553-56-2	0.10	1.00	1.00	0-5%
Potassium Iodide	7681-11-0				0-5%

**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.: Water, Fog, Alcohol Foam, carbon Dioxide or Dry Chemical

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. 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.: Face Shield, 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**

Appearance.....	Clear brown liquid	Evaporation Rate.....	N/A	Water Soluable? .....	Yes
Odor.....	Characteristic	Upper Flammability Limit (%):	N/A	Volatile Percent .....	N/A
Odor Threshold .....	N/A	Lower Flammability Limit (%):	N/A	Partition Coefficient .....	n-octanol/water: N/A
pH .....	N/A	Specific Gravity (@20C) .....	N/A	Auto Ignition Temp. ....	N/A
Melting Point.....	N/A	Vapor Pressure (mm Hg).....	N/A	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.: Stbale

Special Remarks on Reactivity.: N/A

Water Reactive.: No

**Section 11. Toxicological Information**

Routes of Entry.: Inhalation, Skin absorbion, Ingestion

Animal Toxicity.: Iodine: Acute Oral (LD50) 14 mg/kg (Rat) ;Acute Oral (LD50) 22 mg/kg (Mouse); Potassium Iodide: Acute Oral (LDLo) 1862 mg/kg (Rat) Intraperitoneal (LDLo) 1117 mg/kg (Mouse)

Human Toxic Effects .: Target Organs: None

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

Potential Chronic Health Effects ...: Mutagenic

**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
Iodine	7553-56-2	No	No	No	No	No	No	No	No	No
Potassium Iodide	7681-11-0	No	No	No	No	No	No	No	No	No

**Section 16. Other Information**

Review Date : 3/14/2023

Reviewed by : Admin

MSDS Group Id.: 44

Notice: This SDS 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 SDS 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.

**Section 1. Product and Company Identification**

Item Number.: s2128-1  
 Common Name.: Neutral Red Saturated Alcoholic  
 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

polyrnd@polyrnd.com

**Section 2. Hazard Identification**

225 Flammable Liquids Cat 2  
 302 Acute toxicity, oral Cat 4  
 370 Specific target organ toxicity, single exposure Cat 1



Danger

Highly flammable liquid and vapour.

Harmful if swallowed. Causes damage to CNS, Kidneys and Liver.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ ventilating/ lighting/ equipment.

Use only non-sparking tools. Take precautionary measures against static discharge. 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. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF exposed: Call a POISON CENTER or doctor/ physician.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for

extinction. Store in a well-ventilated place tightly closed. Keep cool and locked up. 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) The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Component	CAS#	PEL(mg/m3)	STEL(mg/m3)	CEIL(mg/m3)	Concentration Range
Ethyl Alcohol	64-17-5		1,900.00		>50%
isopropyl Alcohol	67-63-0	1,225.00	980.00		0-5%
Methyl Alcohol	67-56-1	325.00	260.00		0-5%

**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.: Use Dry Chemical, Foam or Carbon Dioxide

Special Fire and Explosion Remarks.: N/A

**Section 6. Accidental Release Measures**

Spill Cleanup and Disposal Special.: Eliminate all ignition sources. Pick up 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 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**

Appearance.....: Clear red liquid	Evaporation Rate.....: N/A	Water Soluable? .....: Yes
Odor.....: N/A	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) .....: 0.791	Auto Ignition Temp. ....: N/A
Melting Point.....: N/A	Vapor Pressure (mm Hg) .....: 52	Decomposition Temp .....: N/A
Boiling Point.....: N/A	Vapor Density (Air=1) .....: 1.6	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.: Ethyl Alcohol: Acute Oral (LD50) 7060 mg/kg (Rat) Acute Dermal (LD50) 500mg/24hr (Severe) (Rabbit); Methyl Alcohol: Acute Oral (LD50) 5628 mg/kg (Rat) Acute Dermal (LD50) 500mg/24hr (Mod Irrit) (Rabbit); Isopropyl Alcohol: Acute Oral (LD50) 5045 mg/kg (Rat); Neutral Red Certified: I.V. (LD50) 112 mg/kg (Rat); I.V. (LD50) 142 mg/kg (Mouse)

Human Toxic Effects.: Target Organs: None

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

Potential Chronic Health Effects...: Isopropyl Alcohol: 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.: UN1170, Ethanol Solutions, 3, II

**Section 15. Regulatory Information**

State Regulations.: New York release reporting list: N/A

Component	CAS#	Sara Section 311 Reporting									
		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	
Methyl Alcohol	67-56-1	No	No	No	No	No	No	Yes	Yes	No	

**Section 16. Other Information**

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MSDS Group Id.: 191

Notice: This SDS 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 SDS is based on reliable technical data, Poly Scientific R&D Corp. assumes no responsibility for the completeness or accuracy of the information contained herein.



**Section 1. Product and Company Identification**

Item Number.: s2587-1  
 Common Name.: Twort's Green  
 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

polyrnd@polyrnd.com

**Section 2. Hazard Identification**

225 Flammable Liquids Cat 2  
 302 Acute toxicity, oral Cat 4  
 341 Germ cell mutagenicity Cat 2  
 370 Specific target organ toxicity, single exposure Cat 1



Danger

Highly flammable liquid and vapour. Harmful if swallowed. Suspected of causing genetic defects. 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. Wear protective gloves/protective clothing/eye protection/face protection. Keep container tightly closed, locked up in well ventilated-area and cool. 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 SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If exposed: 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) The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Component	CAS#	PEL(mg/m3)	STEL(mg/m3)	CEIL(mg/m3)	Concentration Range
Ethyl Alcohol	64-17-5		1,900.00		>50%
Isopropyl Alcohol	67-63-0	1,225.00	980.00		0-5%
Methyl Alcohol	67-56-1	325.00	260.00		0-5%

**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 Powder, Alcohol Foam, Carbon Dioxide  
 Special Fire and Explosion Remarks.: N/A

**Section 6. Accidental Release Measures**

Spill Cleanup and Disposal Special.: Warning!! Flammable!! Eliminate ignition sources. Take up spills with absorbent material.  
 Spill Cleanup.: Take up spills with absorbent material and containerize for proper disposal. Use proper PPE as per section 8. Provide ventilation.

**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**

Appearance.....: Clear green liquid	Evaporation Rate.....: N/A	Water Soluable?.....: Yes
Odor.....: Pleasant	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).....: 0.7915	Auto Ignition Temp.....: N/A
Melting Point.....: N/A	Vapor Pressure (mm Hg).....: 52	Decomposition Temp.....: N/A
Boiling Point.....: N/A	Vapor Density (Air=1).....: 1.6	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 absorbion, 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):5045 mg/kg (Rat); Acute Dermal (LD50) 500mg (Rabbit);

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

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

Potential Chronic Health Effects...: Isopropyl Alcohol: 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.: UN1170, Ethanol Solutions,3,II

**Section 15. Regulatory Information**

State Regulations.: New York release reporting list: N/A

Component	CAS#	Sara Section 311 Reporting									
		Acute	Chronic	Fire	Pressure	Reactive	SARA302	SARA313	CERCLA	RCRA	
Ethyl Alcohol	64-17-5	No	No	No	No	No	Yes	Yes	No		
Isopropyl Alcohol	67-63-0	No	No	No	No	No	Yes	No	No		
Methyl Alcohol	67-56-1	No	No	No	No	No	Yes	Yes	No		

**Section 16. Other Information**

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Reviewed by : Admin

MSDS Group Id.: 4

Notice: This SDS 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 SDS is based on reliable technical data, Poly Scientific R&D Corp. assumes no responsibility for the completeness or accuracy of the information contained herein.