SAFETY DATA SHEET

Section 1. Product and Company Identification

Item Number: s167d-1
Common Name: Crystal Violet 1% Aqueous
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

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)

Component	CAS#	PEL(mg/m3)	STEL(mg/m3)	CEIL(mg/m3)	Concentration Range
Crystal Violet	548-62-9				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 neccessary 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 Spray, Dry Chemical, or Carbon Dioxide
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. 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, 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 violet
Odor .....: N/A
Odor Threshhold.....: N/A
pH.....: N/A
Melting Point.....: N/A
Boiling Point .....: N/A
Flash Point (F) TCC .....: N/A

Evaporation Rate .....: N/A
Upper Flammability Limit (%).: N/A
Lower Flammability Limit (%).: N/A
Specific Gravity (@20C).....: N/A
Vapor Pressure (mm Hg) .....: N/A
Vapor Density (Air=1) .....: N/A
Relative Density.....: N/A

Water Soluable? .....: Yes
Volatile Percent .....: N/A
Partition Coefficient.....: n-octanol/water: N/A
Auto Ignition Temp. .....: N/A
Decomposition Temp.....: N/A
Viscosity .....: N/A

Section 10. Stability and reactivity

Special Remarks on Stability: Stable

Special Remarks on Reactivity: N/A

Water Reactive: No

Section 11. Toxological Information

Routes of Entry: Inhalation, Skin absorbtion

Animal Toxicity: No occupational exposure limits established by OSHA, ACGIH or Niosh. Acute Oral (LD50); 420 mg/kg (Rat)

Human Toxic Effects: Target Organs: Eyes

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: 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; NMFC 43940-02(Liquid,Chemicals,IVD)Class85; ; 0

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
Crystal Violet	548-62-9	No	No	No	No	No	No	No	No	No

Section 16. Other Information

Review Date: 12/1/2015
Reviewed by: ddi
MSDS Group Id: 35

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 responcibility to develope 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 responcibility for the completeness or accuracy of the information contained herein.

SAFETY DATA SHEET

Section 1. Product and Company Identification

Item Number: s204-1
Common Name: Gram's Iodine
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

Harmful If Swallowed or Inhaled

Avoid breathing dust or vapor. May be irritating to eyes, skin, and respiratory system. Wear safety goggles and rubber gloves to avoid contact. Wash thoroughly after handling. Keep container tightly closed.
EFFECTS OF EXPOSURE: Ingestion may cause nausea and abdominal pain. Mild irritant to skin and eyes.
TARGET ORGANS: None.
FIRST AID: Call a physician at once!
For Fire: Use extinguishing media appropriate for surrounding fire.
For Spill: Eliminate ignition sources. Pick up with absorbent material and containerize for proper disposal.

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
No OSHA hazardous					0-5%
Components					50-100 %

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 neccessary 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: N/A
Special Fire and Explosion Remarks: NA

Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special: N/A
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: N/A
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

Appearence .....: clear brown
Odor .....: N/A
Odor Threshhold.....: N/A
pH.....: N/A
Melting Point.....: N/A
Boiling Point .....: N/A
Flash Point (F) TCC .....: NA

Evaporation Rate .....: N/A
Upper Flammability Limit (%).: NA
Lower Flammability Limit (%).: NA
Specific Gravity (@20C).....: N/A
Vapor Pressure (mm Hg) .....: N/A
Vapor Density (Air=1) .....: N/A
Relative Density.....: N/A

Water Soluable? .....: Yes
Volatile Percent .....: N/A
Partition Coefficient.....: n-octanol/water: N/A
Auto Ignition Temp. .....: N/A
Decomposition Temp.....: N/A
Viscosity .....: N/A

Section 10. Stability and reactivity

Special Remarks on Stability: N/A

Special Remarks on Reactivity: N/A

Water Reactive: No

Section 11. Toxological Information

Routes of Entry: N/A

Animal Toxicity: N/A

Human Toxic Effects: N/A

Potential Acute Health Effects: N/A

Potential Chronic Health Effects: N/A

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
No OSHA hazardous Components		No	No	No	No	No	No	No	No	No

Section 16. Other Information

Review Date: 12/4/2015
Reviewed by: ddi
MSDS Group Id: 2

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 responcibility to develope proper methods of handling and personal protection based on the actual conditions of use.
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SAFETY DATA SHEET

Section 1. Product and Company Identification

Item Number: s122-1
Common Name: Basic Fuchsin 0.5% Aqueous
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

350 Carcinogenicity Cat 1A, 1B

Warning
Suspected of casuing cancer.
Use personal protective equipment as required. Obtain special instructions before use. Do not handle until all safety precuations have been read and understood. If exposed or concerned: Get medical advice/attention. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

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
Basic Fuchsin	569-61-9				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 neccessary 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, Water Spray or Carbon Dioxide
Special Fire and Explosion Remarks: N/A

Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special: Pick up with absorbentvermiculite
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

Appearence .....: clear fuschia
Odor .....: N/A
Odor Threshhold.....: N/A
pH.....: N/A
Melting Point.....: N/A
Boiling Point .....: N/A
Flash Point (F) TCC .....: N/A

Evaporation Rate .....: N/A
Upper Flammability Limit (%).: N/A
Lower Flammability Limit (%).: N/A
Specific Gravity (@20C).....: N/A
Vapor Pressure (mm Hg) .....: N/A
Vapor Density (Air=1) .....: N/A
Relative Density.....: N/A

Water Soluable? .....: Yes
Volatile Percent .....: N/A
Partition Coefficient.....: n-octanol/water: N/A
Auto Ignition Temp. .....: N/A
Decomposition Temp.....: N/A
Viscosity .....: N/A

Section 10. Stability and reactivity

Special Remarks on Stability: Stable

Special Remarks on Reactivity: N/A

Water Reactive: No

Section 11. Toxological Information

Routes of Entry: Inhalation, Skin Absorption, Ingestion

Animal Toxicity: Acute Oral (LD50) 5gm/kg (Mouse)

Human Toxic Effects: Target Organs: Blood, Liver

Potential Acute Health Effects: Hazardous in case of eye,skin contact, inhalation,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
Basic Fuchsin	569-61-9	No	No	No	No	No	No	No	No	No

Section 16. Other Information

Review Date: 12/1/2015
Reviewed by: ddi
MSDS Group Id: 19

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 responcibility to develope 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 responcibility for the completeness or accuracy of the information contained herein.

SAFETY DATA SHEET

Section 1. Product and Company Identification

Item Number: s189-1
Common Name: Gallego's Differentiating 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
631-586-0400
polyrnd@polyrnd.com
www.polyrnd.com

Section 2. Hazard Identification

226 Flammable Liquids Cat 3
302 Acute toxicity, oral Cat 4
314 Skin corrosion/irritation Cat 1A, B, C
317 Sensitisian, Skin Cat 1
318 Serious eye damage/eye irritation Cat 1

Danger

Flammable liquid and vapour. Harmful if swallowed. Causes severe skin burns and eye damage. May cause allergic skin reaction. Causes serious eye damage.

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. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precuationary meaasures 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 docotor/physician if you feel unwell. Rinse mouth. Do not induce vomiting. IF ON SKIN (or hair): Remove/Take off immediatley all contaminated clothing. Wash with plenty of water and soap/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 skin irritation or rash occurs: Get medical advice/attention. IF INHALED: Remove visitm to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Store locked up, tightly closed and cool. 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
Acetic Acid, Glacial	64-19-7	15.00	10.00		0-5%
Methanol	67-56-1	325.00	260.00		0-5%
Formaldehyde	50-00-0	0.37	2.00		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 neccessary 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, Alcoholic Foam, Carbon Dioxide, Water Spray, Fog
Special Fire and Explosion Remarks: N/A

Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special: Eliminate ignition sources. Use water spray to disperse vapors. 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

Appearence .....: clear colorless
Odor .....: Pungent, suffocating
Odor Threshhold.....: N/A
pH.....: N/A
Melting Point.....: N/A
Boiling Point .....: N/A
Flash Point (F) TCC .....: N/A

Evaporation Rate .....: N/A
Upper Flammability Limit (%).: N/A
Lower Flammability Limit (%).: N/A
Specific Gravity (@20C).....: 1.047
Vapor Pressure (mm Hg) .....: 152
Vapor Density (Air=1) .....: 0.83
Relative Density.....: N/A

Water Soluable? .....: Yes
Volatile Percent .....: 100
Partition Coefficient.....: n-octanol/water: N/A
Auto Ignition Temp. .....: N/A
Decomposition Temp.....: N/A
Viscosity .....: N/A

Section 10. Stability and reactivity

Special Remarks on Stability: Stable

Special Remarks on Reactivity: N/A

Water Reactive: No

Section 11. Toxological Information

Routes of Entry: Inhalation, Skin absorbtion, Ingestion

Animal Toxicity: Glacial Acetic Acid: Acute Oral (LD50): 3310 mg/kg (Rat); Acute Dermal(LD50): 1060 mg/kg (Rabbit); Acute Vapor(LC50): 5620 1hr(mouse); Formaldehyde: Acute Oral (LD50) 42 mg/kg (Mouse) Acute Dermal (LD50) 0.27 mg/kg (Rabbit); Methanol: Acute Oral (LD50) 6.2-13 mg/kg (Rat)

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

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

Potential Chronic Health Effects: Formaldehyde: OSHA Carcinogen; IARC Code 3; 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: Non Hazardous

Section 15. Regulatory Information

State Regulations: New York Release reporting list: Formaldehyde, Methanol, 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
Methanol	67-56-1	No	No	No	No	No	No	Yes	Yes	No
Formaldehyde	50-00-0	No	No	No	No	No	Yes	Yes	Yes	No

Section 16. Other Information

Review Date: 12/1/2015
Reviewed by: ddi
MSDS Group Id: 58

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 responcibility to develope 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 responcibility for the completeness or accuracy of the information contained herein.

SAFETY DATA SHEET

Section 1. Product and Company Identification

Item Number: s284-1
Common Name: Tartrazine 1.5% Aqueous
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

314 Skin corrosion/irritation Cat 1A, B, C
334 Sensitisian, respiratory Cat 1

Danger

Causes severe skin burns and eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands/skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory ventilation. Keep container tightly closed, in a 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. 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 INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: 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)

Component	CAS#	PEL(mg/m3)	STEL(mg/m3)	CEIL(mg/m3)	Concentration Range
Acetic Acid, Glacial	64-19-7	15.00	10.00		0-5%
Tartrazine	1934-21-0				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 neccessary 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, Dry Chemical Foam or Carbon Dioxide
Special Fire and Explosion Remarks : N/A

Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special : Wera protective clothing and respirator equipment. Disperse vapors with water spray and dilute spill. Pick up with absorben
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

Appearence .....: clear yellow orange
Odor .....: Vinegar like
Odor Threshhold .....: N/A
pH.....: N/A
Melting Point .....: N/A
Boiling Point .....: N/A
Flash Point (F) TCC .....: N/A

Evaporation Rate .....: N/A
Upper Flammability Limit (%) .: N/A
Lower Flammability Limit (%) .: N/A
Specific Gravity (@20C) .....: 1.05
Vapor Pressure (mm Hg) .....: 11
Vapor Density (Air=1) .....: 2.1
Relative Density .....: N/A

Water Soluable? .....: Yes
Volatile Percent .....: 100
Partition Coefficient .....: n-octanol/water: N/A
Auto Ignition Temp. .....: N/A
Decomposition Temp .....: N/A
Viscosity .....: N/A

Section 10. Stability and reactivity

Special Remarks on Stability : Stable

Special Remarks on Reactivity : N/A

Water Reactive : No

Section 11. Toxological Information

Routes of Entry : Inhalation, Skin Absorption, Ingestion

Animal Toxicity : Glacial Acetic Acid: Acute Oral (LD50): 3310 mg/kg (Rat); Acute Dermal(LD50): 1060 mg/kg (Rabbit); Acute Vapor(LC50): 5620 1hr(mouse); Tartrazine: Acute Oral (LD50) 1600-3200 mg/kg (Rat) Acute Dermal (LD50) GT20 cc/kg (Guinea Pig)

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

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 : N/A

Section 13. Disposal Considerations

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

Section 14. Transport Information

DOT Identification : UN2801; Dye, liquid, corrosive, n.o.s. (Acetic Acid); 8; III

Section 15. Regulatory Information

State 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
Tartrazine	1934-21-0	No	No	No	No	No	No	No	No	No

Section 16. Other Information

Review Date : 12/1/2015
Reviewed by : ddi
MSDS Group Id : 115

SAFETY DATA SHEET

Section 1. Product and Company Identification

Item Number: s163d-1
Common Name: Cellosolve
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

226 Flammable Liquids Cat 3
302 Acute toxicity, oral Cat 4
331 Acute toxicity,inhalation Cat 3
360 Reproductive toxicity Cat 1A, 1B

Danger

Flammable liquid and vapour.
Harmful if swallowed.
Toxic if inhaled.
May damage fertility or the unborn child.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment.
Use only non-sparking tools.Take precautionary measures against static discharge. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Wash hands/skin thoroughly after handling.Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.
Wear protective gloves/eye protection/face protection/protective clothing.
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 contaminatedclothing. Rinse skin with water/ shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position
comfortable for breathing. Call a POISON CENTER or doctor/ physician.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for
extinction. Store locked up in a cool, well ventilated place. Keep container tightly closed. 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
Ethylene Glycol Monethy	110-80-5		18.00		50-100 %

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 neccessary 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: Alcohol type or all purpose type foam, Carbon Dioxide or Dry Chemical
Special Fire and Explosion Remarks: N/A

Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special: Dike spill and take up with absorbent mateial
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

Appearence .....: clear colorless
Odor .....: N/A
Odor Threshhold.....: N/A
pH.....: N/A
Melting Point.....: N/A
Boiling Point .....: N/A
Flash Point (F) TCC .....: N/A
Evaporation Rate .....: N/A
Upper Flammability Limit (%).: N/A
Lower Flammability Limit (%).: N/A
Specific Gravity (@20C).....: 0.931
Vapor Pressure (mm Hg) .....: 4.1
Vapor Density (Air=1) .....: 3.1
Relative Density.....: N/A
Water Soluable? .....: Yes
Volatile Percent .....: 100
Partition Coefficient.....: n-octanol/water: N/A
Auto Ignition Temp. .....: N/A
Decomposition Temp.....: N/A
Viscosity .....: N/A

Section 10. Stability and reactivity

Special Remarks on Stability: Stable

Special Remarks on Reactivity: N/A

Water Reactive: No

Section 11. Toxological Information

Routes of Entry: Inhalation, Skin absorbtion, Ingestion

Animal Toxicity: N/A

Human Toxic Effects: Target Organs: Central Nervous System, Kidneys

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

Potential Chronic Health Effects: Repeated or prolonged exposure to the substance can produce target organs damage

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: 1171; ETHYLENE GLYCOL MONOETHYL ETHER; 3; III

Section 15. Regulatory Information

State Regulations: New York release reporting list: Ethylene Glycol

Sara Section 311 Reporting

Component	CAS#	Acute	Chronic	Fire	Pressure	Reactive	SARA302	SARA313	CERCLA	RCRA
Ethylene Glycol Monethy	110-80-5	No	No	No	No	No	No	Yes	No	Yes

Section 16. Other Information

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