Page: 1 of: 2

Section 1. Product and Company Identification

Item Number: s180b-1

Common Name: Ferric Chloride 10% 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

290 Corrosive to Metals Cat 1

302 Acute toxicity, oral Cat 4

315 Skin corrosion/irritation Cat 2

318 Serious eye damage/eye irritation Cat 1



Danger

May be corrosive to metals. Harmful if swallowed. Causes skin irritation and serious eye damage.

Wash hands/skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. Keep in original container. Absorb spillage to prevent material damage. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue risning. Immediatley call a POISON CENTER or docotr/physician. IF ON SKIN (or hair): Remove/Take off immediatley all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before use. IF INHALED: Remove victim to freash air and keep at rest in a position comfortable for breathing. Immediatley call a POISON CENTER or doctor/physician. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Store locked up and in a closed container. Dispose 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	
Ferric Chloride	10025-77-1		1.00		10-25%	

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, Carbobn Dioxide

Special Fire and Explosion Remarks N/A

Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special: Pick upo 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: 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

Appearence: clear yellow	Evaporation Rate N/A	Water Soluable? Yes
Odor N/A	Upper Flammability Limit (%).: N/A	Volatile Percent
Odor Threshhold N/A	Lower Flammability Limit (%).: N/A	Partition Coefficient n-octanol/water: N/A
pH: N/A	Specific Gravity (@ 20C) 1.82	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	ViscosityN/A
Flash Point (F) TCC N/A	Relative Density N/A	

s180b-1

Page: 2 of: 2

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: I.V (LDLO) 7mg/kg (Rabbit) Intraperitoneal (LD50) 260 mg/kg (Mouse)

Human Toxic Effects: Target Organs: Eyes, Nerves

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: UN2582; FERRIC CHLORIDE SOLUTION; 8; III

Section 15. Regulatory Information
State Regulations. New York Release reporting list: Ferric Chloride

Sara Section 311 Reporting

Component	CAS#	Acute	Chronic	Fire	Pressure	Reactive	SARA302	SARA313	CERCLA	RCRA
Ferric Chloride	10025-77-1	No	No	No	No	No	No	No	No	No

Section 16. Other Information

Review Date: 12/1/2015 Reviewed by: ddi MSDS Group Id: 59

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s212h-1

Page: 1 of: 2

Section 1. Product and Company Identification

Item Number .: s212b-1

Common Name .: Hematoxylin 5% 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

315 Skin corrosion/irritation Cat 2

319 Serious eye damage/eye irritation Cat 2A

335 Specific target organ toxicity, single exposure; Respiratory tract irritation Cat 3

370 Specific target organ toxicity, single exposure Cat 1



Danger

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

SAFETY DATA SHEET

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Use only in well-ventilated area. In case of inadequate ventilation wear respiratory ventilation. 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. Ground/bond container and receiving equipment. 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 skin irritation occurs: Get medical adivice/attention. If eye irritation persists: get medical advice/attention. 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. Wash skin with soap/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 INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. 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%	
Hematoxylin	517-28-2			0-5%	
Methyl Alcohol	67-56-1	325.00	260.00	0-5%	

Section 4. First Aid Measures

Eve 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, Foam or Carbon Dioxide

Special Fire and Explosion Remarks ..: N/A

Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special ..: Eliminate ignition sources. Take up spill 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 Glases, 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 tan liquid	Evaporation Rate N/A	Water Soluable? Yes
Odor Pleasant	Upper Flammability Limit (%).: N/A	Volatile Percent: 100
Odor Threshhold N/A	Lower Flammability Limit (%): N/A	Partition Coefficient n-octanol/water: N/A
pH: N/A	Specific Gravity (@20C)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

s212h-1

Page: 2 of: 2

Section 11. Toxological 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); Hematoxylin: Acute Oral (TDLO) 400 gm/kg (Rat)
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 .: UN1170, Ethanol Solutions,3,II

Section 15. Regulatory Information

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

Sara Section 311 Reporting

Component	CAS#	Acu	ite	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	
Hematoxylin	517-28-2	No	No	No	No	No	No	No	No	No	
Methyl Alcohol	67-56-1	No	No	No	No	No	No	Yes	Yes	No	
0 1: 40 011 1 1											

Section 16. Other Information

Review Date : 3/14/2023 Reviewed by : Admin MSDS Group Id.:

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s234a-1

SAFETY DATA SHEET

Page: 1 of: 2

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/ittitation 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

disposal plant.

Causes severe skin burns and eve 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 breathe dust/fume/gas/mist/vapours/spray. Use only in well-ventilated area. In case of inadequate ventilation wear respiratory ventilation. 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. 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 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

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	
lodine	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 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, 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

Appearence Clear brown liquid	Evaporation Rate N/A	Water Soluable? Yes
Odor Characteristic	Upper Flammability Limit (%).: N/A	Volatile Percent N/A
Odor Threshhold 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

s234a-1

SAFETY DATA SHEET

Page: 2 of: 2

Section 11. Toxological Information

Routes of Entry.: Inhalation, Skin absorbtion, 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#	Acu	ıte	Chronic	Fire	Pressure	Reactive	SARA302	SARA313	CERCLA	RCRA
lodine	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											

Reviewed by : Admin MSDS Group Id .:

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SAFETY DATA SHEET

s289-1

Page: 1 of: 2

Section 1. Product and Company Identification

Item Number .: s289-1

Common Name .: Van Gieson's 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

301 Acute toxicity, oral Cat 3

311 Acute toxicity,dermal Cat 3

317 Sensitisian, Skin Cat 1 332 Acute toxicity,inhalation Cat 4



Danger

Toxic if swallowed and in contact with skin.

May cause an allergic skin reaction.

Harmful if inhaled

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wear protective gloves/ clothing protection/eye protection. Use only in a well-ventilated area. 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. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. IF ON SKIN: Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/ attention. Wash contaminated clothing before reuse. Call a POISON CENTER or doctor/ physician if you feel unwell. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. 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.

PEL(mg/m3) CEIL(mg/m3) Component CAS# STEL(mg/m3) Concentration Range

0-5% Picric Acid 88-89-1 0.10

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 Water Spray 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

Appearence Clear red liquid	Evaporation Rate N/A	Water Soluable? Yes
Odor N/A	Upper Flammability Limit (%).: N/A	Volatile Percent N/A
Odor Threshhold 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 ..: Stable

Special Remarks on Reactivity ..: N/A

Water Reactive.: No

SAFETY DATA SHEET

s289-1

Page: 2 of: 2

Section 11. Toxological Information

Routes of Entry.: Inhalation, Skin Absorption, Ingestion

Animal Toxicity .: Picric Acid: Acute Oral (LDLo) 120 mg/kg (Rabbit) Subcutaneous (LDLo) 60 mg/kg (Dog)

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

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

Potential Chronic Health Effects ..: Prolonged or repeated skin contact may cause dermatitis. 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

Picric Acid 88-89-1 No No No No No No Yes No No

Section 16. Other Information

Review Date : 3/14/2023 Reviewed by : Admin MSDS Group Id .: 97

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