

Safety Data Sheet

Classified According to Canada Hazardous Product Regulations SOR/2015-17 (HPR 2022)

SECTION 1: Identification

1.1. Product Identifier

Trade Name or Designation Chloride Color Reagent
for Chloride Determination by the Automated Ferricyanide Method

Product Number 1940

Other Identifying Product Numbers 1940-1, 1940-16, 1940-32

1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

1.3. Details of the Supplier of the Safety Data Sheet

Company Ricca Chemical Company
Address 412 West Fork Drive

Arlington, TX 76012 USA

Telephone 888-467-4222

1.4. Emergency Telephone Number (24 hours)

CHEMTREC (USA) 800-424-9300
CHEMTREC (International) 1+ 703-527-3887

1.5. Distributor Address

Ricca Chemical Company
412 West Fork Drive
Arlington, TX 76012 USA

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SECTION 2: Hazard Identification

2.1. Classification of the Hazardous Product

Hazard Class	Category	Hazard Statements	Precautionary Statements
Acute Toxicity - Oral	Category 4	H302	P264,P270,P301+P312,P330,P501
Acute Toxicity - Dermal	Category 4	H312	P280,P302+P352,P312,P321,P362+P364,P501
Flammable Liquids	Category 3	H226	P210,P233,P240,P241,P242,P243,P280,P303+P361+P353,P370+P378,P403+P235,P501
Serious Eye Damage / Eye Irritation	Category 2	H319	P264,P280,P305+P351+P338, P337+P313
Reproductive Toxicity	Category 1B	H360	P201,P202,P280,P308+P313,P405, P501
Specific Target Organ Toxicity - Single Exposure	Category 2	H371	P260,P264,P270,P308+P311, P405,P501

2.2. GHS Label Elements

Pictograms:



Signal Word: **Danger**

Hazard Statements:

NOTE: Hazard statements may be combined on labels to improve clarity and readability.

Hazard Number	Hazard Statement
H226	Flammable liquid and vapor
H302+H312	Harmful if swallowed or in contact with skin
H319	Causes serious eye irritation
H360	May damage fertility or the unborn child
H371	May cause damage to organs

Precautionary Statements:

NOTE: Precautionary statements may be combined or consolidated on labels to improve clarity and readability.

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Prevention

Precautionary Number	Precautionary Statement
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharge.
P260	Do not breathe fumes or mist.
P264	Wash hands, arms, and face thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves and eye protection.

Response

Precautionary Number	Precautionary Statement
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P311	If exposed or concerned: Call a poison center or doctor.
P330	Rinse mouth.
P337+P313	If eye irritation persists: Get medical advice or attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use dry chemical, foam, or carbon dioxide to extinguish.

Storage

Precautionary Number	Precautionary Statement
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Disposal

Precautionary Number	Precautionary Statement
P501	Dispose of contents/container to suitable waste stream in accordance with local, state, federal, and international regulations.

2.3. Hazards not Otherwise Classified

No other hazards identified.

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2.4. Ingredients of Unknown Acute Toxicity

3.9 percent of this mixture consists of ingredient(s) of unknown acute dermal toxicity. 3.6 percent of this mixture consists of ingredient(s) of unknown acute inhalation toxicity.

SECTION 3: Composition / Information on Ingredients

3.1. Components of Mixture

Chemical Name (IUPAC)	Common Name and Synonyms	CAS Number	Weight%
water	Water	7732-18-5	82.95
methanol	Methyl Alcohol	67-56-1	13.04
iron(3+) trinitrate nonahydrate	Ferric Nitrate Nonahydrate	7782-61-8	3.58
nitric acid	Nitric Acid	7697-37-2	0.34
mercury(2+) dithiocyanate	Mercuric Thiocyanate; Thiocyanic acid, mercury(II) salt	592-85-8	< 0.1
polyoxyethylene lauryl ether	Polyoxyethylene Lauryl Ether (Brij®); Ethoxylated lauryl alcohol; Brij^R	9002-92-0	< 0.1

SECTION 4: First-Aid Measures

4.1. Description of Necessary First-Aid Measures

Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. May cause irritation with burning and stinging with possible damage to the cornea and conjunctiva.

Ingestion: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Dilute immediately with water or milk. Induce vomiting. Call a physician.

Inhalation: Not expected to require first aid. If necessary, remove to fresh air.

Skin Contact: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. May cause irritation, dermatitis, redness and pain. May be absorbed through skin on prolonged exposure.

4.2. Most Important Symptoms and Effects, Acute and Delayed

May damage fertility or the unborn child **WARNING!** Contains a Mercury compound. May be harmful if swallowed. Avoid ingestion and contact with skin, eyes or clothing. Handle this item and all chemicals with care. If swallowed, dilute with water, induce vomiting and call a physician. Wash areas of contact with plenty of water. **EYE CONTACT:** May cause irritation with burning and stinging with possible damage to the cornea and conjunctiva. **SKIN CONTACT:** May cause irritation, dermatitis, redness and pain. May be absorbed through skin on prolonged exposure. **CHRONIC EFFECTS / CARCINOGENICITY:** Repeated large oral doses can cause excess iron buildup in the body. Chronic exposure can cause liver effects.

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4.3. Immediate Medical Attention or Special Treatment Needed

Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Wash areas of contact with soap and water for at least 15 minutes. Call a physician if irritation develops. Dilute immediately with water or milk. Induce vomiting. Call a physician.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing Media

In case of fire: Use dry chemical, foam, or carbon dioxide to extinguish. Use any means suitable for extinguishing surrounding fire.

5.2. Specific Hazards Arising from the Substance or Mixture in a Fire

Flammable liquid and vapor Not considered to be a fire or explosion hazard.

5.3. Special Protective Equipment and Precautions for Firefighters

Use protective clothing and breathing equipment appropriate for the surrounding fire.

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Ground and bond container and receiving equipment. Use explosion-proof equipment. Use non-sparking tools. Take action to prevent static discharge. Wear protective gloves and eye protection.

6.2. Cleanup and Containment Methods and Materials

Contain spill. Do not flush to sewer. Absorb with suitable inert material (vermiculite, dry sand, etc) and place in a chemical waste container for proper disposal in an approved waste disposal facility. Ventilate area of spill. Dispose of in accordance with local regulations.

SECTION 7: Handling and Storage

7.1. Precautions for Safe Handling and Storage Conditions

Store in a well-ventilated place. Keep cool. Store locked up. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

SECTION 8: Exposure Controls / Personal Protection

8.1. Exposure Limits

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U.S. OSHA - Permissible Exposure Limits (PEL) - Time Weighted Averages (TWA)

Chemical Name	CAS Number	Exposure Limit
Mercuric Thiocyanate	592-85-8	"5 mg/m ³ TWA (as CN)" As Cyanides [RR-00812-8]
Methyl Alcohol	67-56-1	200 ppm TWA; 260 mg/m ³ TWA
Nitric Acid	7697-37-2	2 ppm TWA; 5 mg/m ³ TWA

U.S. OSHA - Permissible Exposure Limits (PEL) - Ceiling Limits

No limits found.

U.S. OSHA - Permissible Exposure Limits (PEL) - Short Term Exposure Limits (STEL)

No limits found.

U.S. OSHA - Specifically Regulated Chemicals

No limits found.

ACGIH - Threshold Limit Values - Ceilings (TLV-C)

No limits found.

ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)

Chemical Name	CAS Number	Exposure Limit
Methyl Alcohol	67-56-1	250 ppm STEL
Nitric Acid	7697-37-2	4 ppm STEL

ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

Chemical Name	CAS Number	Exposure Limit
Mercuric Thiocyanate	592-85-8	"0.025 mg/m ³ TWA (as Hg)" As Mercury inorganic forms [RR-00569-6]
Methyl Alcohol	67-56-1	200 ppm TWA
Nitric Acid	7697-37-2	2 ppm TWA
Ferric Nitrate Nonahydrate	7782-61-8	"1 mg/m ³ TWA (as Fe)" As Iron salts, soluble [RR-00521-0]

8.2. Engineering Controls

No specific controls are needed. Normal room ventilation is adequate.

8.3. Individual Protective Measures and Personal Protective Equipment

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved atmosphere supplied respirator must be worn.

Skin Protection: Chemical resistant gloves.

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Eye Protection: Safety glasses or goggles.

SECTION 9: Physical and Chemical Properties

9.1. Physical and Chemical Properties

Physical State:	liquid
Color:	Brown
Odor:	Data not available.
Odor Threshold:	Data not available.
Melting/Freezing Point:	Approximately 0°C
Boiling Point/Range:	Approximately 100°C
Flammability:	Data not available.
Flammability/Explosive Limits:	Data not available.
Flash Point:	51 °C (calculated)
Auto-Ignition Temperature:	Data not available.
Decomposition Temperature:	Data not available.
pH:	Data not available.
Kinematic Viscosity:	Data not available.
Solubility:	miscible
Vapor Pressure:	Data not available.
Evaporation Rate:	Data not available.
Relative Density:	0.95
Relative Vapor Density:	Data not available.
Particle Characteristics:	Data not available.
Partition Coefficient n-octanol/water, log	Data not available.

NOTE: Flash point was calculated according to the method of Gmehling and Rasmussen (Ind. Eng. Chem. Fundament, 21, 186, (1982)), as allowed by GHS Rev 7, section 2.6.4.2.3.

SECTION 10: Stability and Reactivity

10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

10.2. Possibility of Hazardous Reactions

Data not available.

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10.3. Conditions to Avoid and Incompatible Materials

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Strong oxidizing agents such as Nitrates, Perchlorates or Sulfuric Acid, Strong bases, metallic powders, Carbides, Hydrogen Sulfide, Turpentine and combustible organics.

10.4. Hazardous Decomposition Products

Will not occur.

SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity - Oral Exposure:

Oral acute toxicity estimate (ATE): 751 mg/kg(calculated)

Chemical Name	CAS Number	Toxicity
Mercuric Thiocyanate	592-85-8	Oral LD50 Rat 46 mg/kg (Source: NLM_CIP)
Methyl Alcohol	67-56-1	Oral LD50 Acute Toxicity Estimate 100 mg/kg (Source: ECHA)
Ferric Nitrate Nonahydrate	7782-61-8	Oral LD50 Rat 3250 mg/kg (Source: NLM_CIP)
Polyoxyethylene Lauryl Ether (Brij®)	9002-92-0	Oral LD50 Rat 1 g/kg (Source: NLM_CIP)

Acute Toxicity - Dermal Exposure:

Dermal acute toxicity estimate (ATE): 1740 mg/kg(calculated)

Chemical Name	CAS Number	Toxicity
Mercuric Thiocyanate	592-85-8	Dermal LD50 Acute Toxicity Estimate 5 mg/kg (Source: ECHA)
Methyl Alcohol	67-56-1	Dermal LD50 Acute Toxicity Estimate 300 mg/kg (Source: ECHA)
Polyoxyethylene Lauryl Ether (Brij®)	9002-92-0	Dermal LD50 Rat >2000 mg/kg (no deaths occurred, Source: ECHA_API)

Acute Toxicity - Inhalation Exposure:

Inhalation acute toxicity estimate (ATE, vapor): 22.4605 mg/L, 4 h(calculated); Inhalation acute toxicity estimate (ATE, dust or mist): 71.4286 mg/L,

Chemical Name	CAS Number	Toxicity
Mercuric Thiocyanate	592-85-8	Inhalation LC50 Acute Toxicity Estimate 0.05 mg/L 4 h (Source: ECHA)
Methyl Alcohol	67-56-1	Inhalation LC50 Acute Toxicity Estimate 3 mg/L 4 h (Source: ECHA)
Nitric Acid	7697-37-2	Inhalation LC50 Rat 3.22 mg/L 4 h (Source: WHMIS)

11.2 Carcinogenicity:

International Agency for Research on Cancer (IARC)

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Chemical Name	CAS Number	Classification
Mercuric Thiocyanate	592-85-8	Group 3 (Not Classified) - Monograph 58 [1993] As Mercury inorganic compounds
Nitric Acid	7697-37-2	Group 1 (Carcinogenic to Humans) - Monograph 100F [2012]; Monograph 54 [1992] As Acid mists, strong inorganic

National Toxicology Program (NTP)

Chemical Name	CAS Number	Classification
No data found.		

U.S. OSHA specifically regulated carcinogens

Chemical Name	CAS Number	Classification
No data found.		

11.3 Additional Toxicology Information:

Harmful if swallowed or in contact with skin. Causes serious eye irritation. May damage fertility or the unborn child. May cause damage to organs.

SECTION 12: Ecological Information

12.1. Ecotoxicity

Chemical Name	CAS Number	Species	Exposure	Toxicity
Methyl Alcohol	67-56-1	Earthworm	Acute	LC50 48 h Eisenia foetida >1 mg/cm ² [filter paper] (IUCLID)
Methyl Alcohol	67-56-1	Freshwater Fish	Acute	LC50 96 h Pimephales promelas 28200 mg/L [flow-through] (EPA); LC50 96 h Pimephales promelas >100 mg/L [static] (EPA); LC50 96 h Oncorhynchus mykiss 19500 - 20700 mg/L [flow-through] (EPA); LC50 96 h Oncorhynchus mykiss 18 - 20 mL/L [static] (EPA); LC50 96 h Lepomis macrochirus 13500 - 17600 mg/L [flow-through] (EPA)

12.2. Persistence and Degradability

Data not available.

12.3. Bioaccumulative Potential

Data not available.

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12.4. Mobility in soil

Data not available.

12.5. Other Adverse Ecological Effects

Data not available.

SECTION 13: Disposal Considerations

13.1. Waste Treatment Methods

Data not available.

SECTION 14: Transportation Information

14.1 Transportation by Land - Department of Transportation (DOT, United States of America)

Not regulated according to DOT regulations.

14.2 Transportation by Air - International Air Transport Association (IATA)

Not regulated according to IATA Dangerous Goods Regulations.

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14.3 Transportation of Dangerous Goods (TDG, Canada)

Not regulated according to TDG regulations.

SECTION 15: Regulatory Information

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15.01. Occupational Safety and Health Administration (OSHA) Hazards

Chemical Name	CAS Number	Regulatory Information
No data found.		

15.02. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

Chemical Name	CAS Number	RQ	TPQ
Nitric Acid	7697-37-2	1000 lb TPQ	1000 lb EPCRA RQ

15.03. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

Chemical Name	CAS Number	Regulatory Information
Mercuric Thiocyanate	592-85-8	10 lb final RQ; 4.54 kg final RQ
Methyl Alcohol	67-56-1	5000 lb final RQ; 2270 kg final RQ
Nitric Acid	7697-37-2	1000 lb final RQ; 454 kg final RQ
Ferric Nitrate Nonahydrate	7782-61-8	"1000 lb final RQ; 454 kg final RQ" As Ferric nitrate [10421-48-4]

15.04. Superfund Amendments and Reauthorization Act (SARA) 313 Toxics Release Inventory (TRI)

Chemical Name	CAS Number	List	Regulatory Information
Mercuric Thiocyanate	592-85-8	Emission Reporting	"not eligible for the de minimis exemption, listed under Chemical Category N458" As Mercury compounds [RR-00138-7]; "1.0 % de minimis concentration (X+CN- where X=H+ or any other group where a formal dissociation can be made, for example, KCN or Ca(CN) ₂ , listed under Chemical Category N106)" As Cyanide compounds [RR-00812-8]
Mercuric Thiocyanate	592-85-8	Chemicals of Special Concern	"10 lb RT" As Mercury compounds [RR-00138-7]
Methyl Alcohol	67-56-1	Emission Reporting	1.0 % de minimis concentration
Nitric Acid	7697-37-2	Emission Reporting	1.0 % de minimis concentration
Ferric Nitrate Nonahydrate	7782-61-8	Emission Reporting	"1.0 % de minimis concentration (reportable only when in aqueous solution, listed under Chemical Category N511)" As Nitrate compounds, water dissociable [RR-03804-0]

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15.05. Massachusetts Right-to-Know Substance List

Chemical Name	CAS Number	Regulatory Information
Mercuric Thiocyanate	592-85-8	Present
Methyl Alcohol	67-56-1	Present
Nitric Acid	7697-37-2	Extraordinarily hazardous
Ferric Nitrate Nonahydrate	7782-61-8	"Present" As Ferric nitrate [10421-48-4]

15.06. Pennsylvania Right-to-Know Hazardous Substances

Chemical Name	CAS Number	Regulatory Information
Mercuric Thiocyanate	592-85-8	Environmental hazard
Methyl Alcohol	67-56-1	Environmental hazard
Nitric Acid	7697-37-2	Environmental hazard
Ferric Nitrate Nonahydrate	7782-61-8	"Environmental hazard" As Nitric acid, iron(3+) salt [10421-48-4]; "Environmental hazard" As Iron salts [RR-04647-9]

15.07. New Jersey Worker and Community Right-to-Know Components

Chemical Name	CAS Number	Regulatory Information
Mercuric Thiocyanate	592-85-8	sn 1194
Methyl Alcohol	67-56-1	sn 1222
Nitric Acid	7697-37-2	sn 1356
Ferric Nitrate Nonahydrate	7782-61-8	"sn 0924" As Ferric nitrate [10421-48-4]; "sn 3722" As Nitrate compounds [RR-01770-9]

15.08. California Proposition 65

Chemical Name	CAS Number	Regulatory Information
Mercuric Thiocyanate	592-85-8	"developmental toxicity, 7/1/1990" As Mercury compounds [RR-00138-7]
Methyl Alcohol	67-56-1	developmental toxicity, 3/16/2012

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15.09. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Chemical Name	CAS Number	List	Status
Mercuric Thiocyanate	592-85-8	DSL	Present
Methyl Alcohol	67-56-1	DSL	Present
Methyl Alcohol	67-56-1	NDSL	"Present" As Alcohols, C1-3 [68475-56-9]
Nitric Acid	7697-37-2	DSL	Present
Water	7732-18-5	DSL	Present
Ferric Nitrate Nonahydrate	7782-61-8	DSL	"Present" As Ferric nitrate [10421-48-4]
Polyoxyethylene Lauryl Ether (Brij®)	9002-92-0	DSL	Present

15.10. United States of America Toxic Substances Control Act (TSCA) List

Chemical Name	CAS Number	Status
Mercuric Thiocyanate	592-85-8	Present (ACTIVE)
Methyl Alcohol	67-56-1	Present (ACTIVE)
Nitric Acid	7697-37-2	Present (ACTIVE)
Water	7732-18-5	Present [XU] (ACTIVE)
Ferric Nitrate Nonahydrate	7782-61-8	"Present (ACTIVE)" As Nitric acid, iron(3+) salt (3:1) [10421-48-4]
Polyoxyethylene Lauryl Ether (Brij®)	9002-92-0	Present [XU] (ACTIVE)

15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

Chemical Name	CAS Number	List	Number
Mercuric Thiocyanate	592-85-8	EINECS	209-773-0
Methyl Alcohol	67-56-1	EINECS	200-659-6
Nitric Acid	7697-37-2	EINECS	231-714-2
Water	7732-18-5	EINECS	231-791-2
Ferric Nitrate Nonahydrate	7782-61-8	EINECS	"233-899-5" As Iron trinitrate [10421-48-4]
Polyoxyethylene Lauryl Ether (Brij®)	9002-92-0	NLP	NLP No. 500-002-6 (>1<2.5 mol ethoxylated units)

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15.12. China - Inventory of Existing chemical Substances (IECSC)

Chemical Name	CAS Number	Status
Mercuric Thiocyanate	592-85-8	Present [22999]
Methyl Alcohol	67-56-1	Present [16735]
Nitric Acid	7697-37-2	Present [35578]
Water	7732-18-5	Present [32224]
Ferric Nitrate Nonahydrate	7782-61-8	Present [21186]
Polyoxyethylene Lauryl Ether (Brij®)	9002-92-0	Present [30614]

15.13. Korea - Existing Chemicals Inventory (KECI/KECL)

Chemical Name	CAS Number	List	Status
Mercuric Thiocyanate	592-85-8	Annex 1	Present [KE-05-0812]
Mercuric Thiocyanate	592-85-8	Annex 3	"Present (97-1-140)" As Mercury compounds [RR-00138-7]
Methyl Alcohol	67-56-1	Annex 1	Present [KE-23193]
Nitric Acid	7697-37-2	Annex 1	Present [KE-25911]
Water	7732-18-5	Annex 1	Present [KE-35400]
Ferric Nitrate Nonahydrate	7782-61-8	Annex 1	"Present [KE-21136]" As Ferric nitrate [10421-48-4]
Polyoxyethylene Lauryl Ether (Brij®)	9002-92-0	Annex 1	Present [KE-12935]

15.14. Japan - Existing and New Chemical Substances Inventory (ENCS)

Chemical Name	CAS Number	MITI No.
Methyl Alcohol	67-56-1	(2)-201
Nitric Acid	7697-37-2	(1)-394
Water	7732-18-5	- (listed on Japanese Pharmacopoeia 8th Edition)
Ferric Nitrate Nonahydrate	7782-61-8	(1)-355 (not considered as a new chemical substance)
Polyoxyethylene Lauryl Ether (Brij®)	9002-92-0	(7)-97

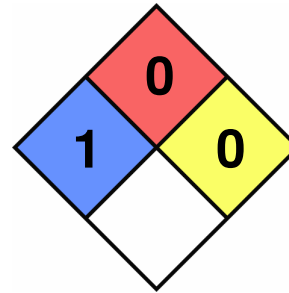
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16.1 National Fire Protection Associate (NFPA) Rating

Health: 1
Flammability: 0
Reactivity 0
Special Hazard:



16.2 Document Revision

Last Revision Date:
2026-05-05

DISCLAIMER

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.