Page E1 of E2

Section 1

Identification

# INNOVATING SCIENCE

"Cutting edge science for the classroom"

by Aldon Corporation 221 Rochester Street Avon, NY 14414-9409 (585) 226-6177

### CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.

Product FERRIC CHLORIDE, 1 MOLAR SOLUTION	
Synonyms Iron(III) Chloride, Water Solution	
Section 2 Hazards identification	
Signal word: DANGER Pictograms: GHS05 / GHS07 Target organs: Eyes, Skin, Respiratory system, Liver, Gastrointestinal tract	<ul> <li>Precautionary statement:</li> <li>P234: Keep only in original container.</li> <li>P406: Store in corrosive resistant container with a resistant inner liner.</li> <li>P264: Wash hands thoroughly after handling.</li> <li>P270: Do not eat, drink or smoke when using this product.</li> <li>P280: Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P301+P330+P312: IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor if you feel unwell.</li> <li>P302+P352: IF ON SKIN: Wash with plenty of water and soap.</li> <li>P332+P313: If skin irritation occurs: Get medical attention.</li> <li>P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remo contact lenses, if present and easy to do. Continue rinsing.</li> <li>P310: Immediately call a POISON CENTER or doctor.</li> <li>P362+P364: Take off contaminated clothing and wash it before reuse.</li> <li>P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.</li> </ul>

### Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3	Composition / information o	n ingredients			
Chemical Name		CAS #	%	EINECS	
Water Ferric chloride, hex	ahydrate	7732-18-5 10025-77-1	72.97% 27.03%	231-791-2 231-729-4 [anhydrous]	
Section 4	First aid measures				

**INGESTION:** HARMFUL IF SWALLOWED. MAY CAUSE LIVER OR KIDNEYS DAMAGE. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE EYE DAMAGE. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

## Section 5 Fire fighting measures

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

## Section 6 Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances.

Section 8	Exposure controls / personal prot	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	Iron salts, soluble, as Fe	TWA: 1 mg/m <sup>3</sup>	No listing	TWA: 1 mg/m <sup>3</sup>

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHAnirator woodr

Section 9	Physical and chemical p	operties					
	ata not available. ble. : Approximately 0°C (32°F) (water) ximately 100°C (212°F) (water)	Flammability ( Explosion limi Vapor pressur Vapor density Relative density	ate (Water = 1): <1 solid/gas): Data not av ts: Lower / Upper: Da e (mm Hg): 14 (water) (Air = 1): 0.7 (water) (Specific gravity): Approx : Complete in water.	ta not available	Auto-ignit Decompos Viscosity: Molecular		e: Data not available ure: Data not available. ble. re
Section 10	Stability and reactivity						
Incompatible materi	Stable : Excessive temperatures whi- ials: Water, oxidizing agents, i osition products: Hydrogen (	ch cause evapora netals, strong bas	ses, reducing agents, alo				
Section 11	Toxicological information	1					
Skin corrosion/irrita Serious eye damage Respiratory or skin Germ cell mutageni Carcinogenity: Data NTP: No component IARC: No component OSHA: No component Ca Prop 65: This pro Reproductive toxici	I-rat LD50: 1,872 mg/kg [Ferric ation: Data not available e/irritation: Data not available sensitization: Data not available icity: Data not available of this product present at level t of this product present at leven t of th	able s greater than or ls greater than or els greater than o	equal to 0.1% is identifie equal to 0.1% is identifi or equal to 0.1% is identifi	ed as probable, pos fied as a carcinoger	sible or confi or potential o	med human car carcinogen by O	0,
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dent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook. Form 06/2015

# **GENERAL STORAGE CODE GREEN**

Page E1 of E2

Section 1

Identification

# **INNOVATING SCIENCE®**

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## CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only.

Not for drug, food or household use.

Product	POTASSIUM FERROCYANIDE, 0.1 MOLAR SOLUTION	
Synonyms	Potassium Ferrocyanide, Water Solution	
Section 2	Hazards identification	
Pictograms Target orga GHS Classi Skin irritatio Eye irritatior Aquatic toxic GHS Label H316: Caus H320: Caus	d: WARNING S: None required Ins: None known ification: n (Category 3) n (Category 2B) city, chronic (Category 3) information: Hazard statement(s): les mild skin irritation. les eye irritation. Iful to aquatic life with long lasting effects.	<ul> <li>Precautionary statement(s):</li> <li>P264: Wash hands thoroughly after handling.</li> <li>P273: Avoid release to the environment.</li> <li>P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P332+P313: If skin irritation occurs: Get medical attention.</li> <li>P337+P313: If eye irritation persists: Get medical attention.</li> <li>P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.</li> <li>Supplementary information:</li> <li>EUH032: Contact with acids liberates very toxic gas.</li> </ul>

### Hazards not otherwise classified:

Physical hazards not otherwise classified (PHNOC) - Not Known

Health hazards not otherwise classified (HHNOC) - Contact with acids liberates very toxic gas.

Section 3 Composition / inform	nation on ingredients			
Chemical Name	CAS #	%	EINECS	
Water Potassium ferrocyanide	7732-18-5 14459-95-1	95.78% 4.22%	231-791-2 None listed	
Section 4 First aid measures				

**INGESTION:** Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

### Section 5 Fire fighting measures

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Dangerous when heated to decomposition or on contact with acids or acid fume, emits highly toxic fumes of hydrocyanic gas which can form explosive mixtures with air.

# Section 6 Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances. Protect from light, heat, acids and acid fumes.

Section 8	Exposure controls / personal prot	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits.	Potassium ferrocyanide	None established.	None established.	None established.

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Section 4	Physical and chemical p	oronerties					
Odor: No odor. Odor threshold: pH: Data not ava Melting / Freezing po	ear, colorless liquid. Data not available. iilable. pint: Approximately 0°C (32°F) (water) proximately 100°C (212°F) (water)	Evaporation ra Flammability ( Explosion limi Vapor pressur Vapor density Relative density	ate (Water = 1): <1 solid/gas): Data not ts: Lower / Upper: e (mm Hg): 14 (water (Air = 1): 0.7 (water) (Specific gravity): App : Complete in water.	Data not available er)	Auto-igniti Decompos Viscosity: Molecular	•	e: Data not available ure: Data not available. ble. re
Section 10	Stability and reactivity				1		
Incompatibilities	y: Stable oid: Protect from light, heat, acid with other materials: Strong o mposition products: Oxides of	ds and acid fumes. xidizers, acids and a		Will not occur.			
Section 11	Toxicological information	on					
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# GENERAL STORAGE CODE GREEN

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Section 1

Identification

# INNOVATING SCIENCE

"Cutting edge science for the classroom"

by Aldon Corporation 221 Rochester Street Avon, NY 14414-9409 (585) 226-6177 CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.

Product	POTASSIUM THIOCYANATE, 0.002 MOLAR SOLUTION	
Synonyms	Potassium Thiocyanate, Water Solution	
Section 2	Hazards identification	
Pictograms	I: WARNING : No symbol required <b>ns:</b> Central nervous system, Cardiovascular system, Thyroid	Precautionary statement: P301+P304+P312: IF SWALLOWED OR INHALED: Call a POISON CENTER or doctor if you feel unwell.
	<b>fication:</b> y, oral (Category 5) y, inhalation (Catégorie 5)	
H303: May b	in <b>formation: Hazard statement:</b> be harmful if swallowed. be harmful if inhaled.	

### Hazards not otherwise classified:

Physical hazards not otherwise classified (PHNOC) - Not Known

Health hazards not otherwise classified (HHNOC) - Contact with acids liberates very toxic gas.

Section 3 Composition / inf	ormation on ingredients			
Chemical Name	CAS #	%	EINECS	
Water Potassium thiocyanate	7732-18-5 333-20-0	99.98% 0.019%	231-791-2 206-370-1	
Section 4 First aid measure	S			

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

### Section 5 Fire fighting measures

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

## Section 6 Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances.

Section 8	Exposure controls / personal prot	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	Potassium thiocyanate	Not established	Not established	Not established

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHAnirator wodr

Section 9	Physical and chemi	cal properties					
Odor: No odor. Odor threshold: pH: Data not ava Melting / Freezing p	point: Approximately 0°C (32°F) (wa pproximately 100°C (212°F) (wa	Ater) Relative density ( Explosion limi Vapor pressur Vapor density Relative density	ate (Water = 1): <1 (solid/gas): Data not its: Lower / Upper: re (mm Hg): 14 (water (Air = 1): 0.7 (water) (Specific gravity): App : Complete in water.	Data not available er)	Auto-igniti Decompos Viscosity: Molecular		e: Data not available ure: Data not available. ble. re
Section 10	Stability and reactiv	rity					
Incompatible ma	void: Excessive temperature aterials: Strong oxidizers an	es and formation of dust. Id acids.					
	omposition products: Amm upon reaction with strong aci						
Section 11	Toxicological inform	nation					
NTP: No compon IARC: No compo OSHA: No compo Ca Prop 65: This <b>Reproductive to</b>	Data not available nent of this product present a onent of this product present a onent of this product present product does not contain an <b>oxicity:</b> Data not available	at levels greater than or o	equal to 0.1% is ident equal to 0.1% is iden	tified as probable, pos ntified as a carcinogen	sible or confin or potential c	med human card arcinogen by OS	
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Section 1

Identification

# INNOVATING SCIENCE "Cutting edge science for the classroom"

by Aldon Corporation 221 Rochester Street Avon, NY 14414-9409 (585) 226-6177

# **CHEMTREC 24 Hour Emergency** Phone Number (800) 424-9300

For laboratory and industrial use only. Not for drug, food or household use.

Product SILVER NITRATE, 0.1 MOLAR (0.1	NORMAL) SOLUTION
Synonyms Silver(I) Nitrate, Water Solution / Sil	ver Nitrate, 0.1M (0.1N) Solution
Section 2 Hazards identification	
Signal word: WARNING Pictograms: GHS07 / GHS09 Target organs: Kidneys, Liver	Precautionary statement(s):P264: Wash hands thoroughly after handling.P273: Avoid release to the environment.P280: Wear protective gloves/protective clothing/eye protection/face protection.P302+P352: IF ON SKIN: Wash with plenty of water and soap.P332+P313: If skin irritation occurs: Get medical attention.P362+P364: Take off contaminated clothing and wash it before reuse.P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.P337+P313: If eye irritation persists: Get medical attention.P391: Collect spillage.P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

### Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3	Composition / information or	omposition / information on ingredients					
Chemical Name		CAS #	%	EINECS			
Water Silver nitrate		7732-18-5 7761-88-8	98.3% 1.7%	231-791-2 231-853-9			
Section 4	First aid measures						

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CONTACT CAUSES SEVERE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: CONTACT CAUSES IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

#### Section 5 Fire fighting measures

Suitable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

#### Section 6 Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area.

Section 8	Exposure controls / personal prot	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits.	Silver, soluble compounds, as Ag	TWA: 0.01 mg/m <sup>3</sup>	TWA: 0.01 mg/m <sup>3</sup>	TWA: 0.01 mg/m <sup>3</sup>

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-

approved respirato							
Section 9	Physical and chemic	cal properties					
	xteristic odor. Data not available. lable. nt: Approximately 0°C (32°F) (wa roximately 100°C (212°F) (wa	Flammability ( Explosion limi Vapor pressur Vapor density ter) Relative density	ate (Water = 1): <1 (solid/gas): Data not its: Lower / Upper: I re (mm Hg): 14 (wate (Air = 1): 0.7 (water) (Specific gravity): App : Complete in water.	Data not available r)	Auto-ignit Decompo Viscosity: Molecular		: Data not available I <b>re:</b> Data not available. ble. e
Section 10	Stability and reactive	ity					
Chemical stability Conditions to avo	<ul> <li>r: Stable</li> <li>rid: Excessive temperature</li> </ul>		ous polymerization: tion.	Will not occur.			
Incompatible mat	erials: Combustible materi	als, reducing agents, or	ganic substances, stro	ong basis and alkalis			
Hazardous decom	nposition products: Nitrog	gen oxides.					
Section 11	Toxicological inform	nation					
IARC: No compone OSHA: No compor	ent of this product present at ent of this product present a ment of this product present product does not contain any	at levels greater than or at levels greater than o	equal to 0.1% is ident r equal to 0.1% is iden	ified as probable, po ntified as a carcinoge	ssible or confi n or potential	rmed human card carcinogen by OS	0,
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Form 06/2015