spectrum®



SAFETY DATA SHEET

Preparation Date: 1/18/2019	Revision date 1/18/2019	Revision Number: G1				
	1. Identification					
Product identifier						
Product code:	P-321					
Product Name:	POTASSIUM FERROCYANIDE, 7 PERCEI	NT (W/V) AQUEOUS SOLUTION				
Other means of identification						
Synonyms:	No information available					
CAS #:	Mixture					
RTECS #	Not available					
CI#:	Not available					
Recommended use of the chem	ical and restrictions on use					
Recommended use:	No information available.					
Uses advised against	No information available					
Supplier:	Spectrum Chemical Mfg. Corp					
	14422 South San Pedro St.					
	Gardena, CA 90248					
	(310) 516-8000					
Order Online At:	https://www.spectrumchemical.com					
Emergency telephone number	Chemtrec 1-800-424-9300					
Contact Person:	Tom Tyner (USA - West Coast)					
Contact Person:	Ibad Tirmiz (USA - East Coast)					

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Not classified

Hazards not otherwise classified (HNOC) Not Applicable

Other hazards Not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component		CAS No	Weight-%			
Water		7732-18-5	93			
Potassium Ferrocyanide, Trihydra	e ź	14459-95-1	7			
4. FIRST AID MEASURES						
First aid measures						
			Inited States can provide assistance if y talk to a poison specialist. Call	/ou		
	Wash off immediately with soap and plenty of water. Get medical attention if irritation develops.					
Eye Contact:	Flush eyes with water	for 15 minutes. Get r	nedical attention if irritation occurs.			
	Move to fresh air. If broker to fresh air. If broker to freshiration. Get medicated		e oxygen. If not breathing, give artificial			
	Do not induce vomiting unconscious person. C		ice. Never give anything by mouth to an necessary.			
Most important symptoms and effect	s, both acute and de	layed				
	Health injuries are not known or expected under normal use Ingestion of large amounts may cause nausea, vomiting, abdominal pain It may affect the kidneys May cause diarrhea					
Indication of any immediate medical	attention and special	I treatment needed				
Notes to Physician: Treat symptomatically.						
Protection of first-aiders First-Aid Providers: Avoid exposure to contaminated clothing and equipment a	blood or body fluids. V s bio-hazardous waste	Vear gloves and othe	r necessary protective clothing. Dispose of			
5. FIRE-FIGHTING MEASURES						
Extinguishing Media Suitable Extinguishing Media:		involved in a fir	The product is not flammable. If it is e, extinguish the fire using an agent type of surrounding fire.			
Unsuitable Extinguishing Media:		No information available.				
Specific hazards arising from the chemical						
Hazardous combustion products		No information	available.			
Specific hazards	No information available.					
Product code: P-321	FERROCYANIE	I ME: POTASSIUM DE, 7 PERCENT (V US SOLUTION		Page		

Special Protective Actions for Firefighters

Specific Methods:

No information available

Special Protective Equipment for Firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions:	Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin and eyes.			
Environmental precautions	Prevent further leakage or spillage. Prevent product from entering drains.			
Methods and material for contain	nment and cleaning up			
Methods for containment	Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth).			
Methods for cleaning up	Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Clean contaminated surface thoroughly.			

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapors or spray mist. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:

Strong oxidizing agents Acids

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Water	7732-18-5	None	None	None	None
Potassium Ferrocyanide, Trihydrate	14459-95-1	None	None	1 mg/m ³ TWA (as Fe)	None

Product code: P-321

Product name: POTASSIUM FERROCYANIDE, 7 PERCENT (W/V) AQUEOUS SOLUTION

Canada

Component	CAS No	Canada - Alberta	Canada - British	Canada - Ontario	Canada - Quebec
			Columbia		
Water	7732-18-5	None	None	None	None
Potassium	14459-95-1	1 mg/m ³ TWA (as Fe)	1 mg/m ³ TWA (as Fe)	None	1 mg/m ³ TWAEV (as
Ferrocyanide, Trihydrate			2 mg/m ³ STEL (as Fe)		Fe)

Australia and Mexico

Component	CAS No	Australia	Mexico
Water	7732-18-5	None	None
Potassium Ferrocyanide, Trihydrate	14459-95-1	1 mg/m ³ TWA (as Fe) 5 mg/m ³ TWA (as CN)	None

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection:	Goggles
Skin and body protection:	Gloves Long sleeved clothing Chemical resistant apron
Respiratory protection:	Respiratory protection is not necessary for normal handling. Good room ventilation or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.
Hygiene measures:	Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product Wear suitable gloves and eye/face protection

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Appearance: Clear.	Color: Yellow.
Liquid	Clear.	Tellow.
Odor:	Taste	Formula
No information available.	No information available.	No information available
Molecular/Formula weight (g/mole)	: Flammability (solid, gas)	Flashpoint (°C/°F):
No information available	no data available	No information available
Flash Point Tested according to:	Autoignition Temperature (°C/°F):	Lower Explosion Limit (%):
Not available	No information available	No information available
Product code: P-321	Product name: POTASSIUM	
	FERROCYANIDE, 7 PERCENT (W/V)	

AQUEOUS SOLUTION

Upper Explosion Limit (%): No information available

Boiling point/range(°C/°F): No information available

Specific gravity: 1.03 (weighted average)

Evaporation rate: No information available

Odor threshold (ppm): No information available

Miscibility: No information available Melting point/range(°C/°F): No information available

Bulk density: No information available

pH No information available

Vapor density: No information available

Partition coefficient (n-octanol/water): No information available

Solubility: Freely soluble in water **Decomposition temperature(°C/°F):** No information available

Density (g/cm3): 1.0 (water)

Vapor pressure @ 20°C (kPa): No information available

VOC content (g/L): No information available

Viscosity: No information available

10. STABILITY AND REACTIVITY

Reactivity No information available

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

<u>Conditions to avoid:</u> Incompatible materials.

Incompatible Materials: Strong oxidizing agents Acids

<u>Hazardous decomposition</u> No information available. products:

Other Information Corrosivity:

No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure: Ingestion. Eyes. Inhalation. Skin.

Acute Toxicity

Component Information

Water

CAS No	7732-18-5					
-	LD50/oral/rat = > 90 mL/kg Oral LD50 Rat LD50/oral/mouse = No information available					
LD50/dermal/rabbit = No information available						
LD50/dermal/rabbit = No information available						
LC50/inhalation/rat = No information available						
LC50/inhalation/mouse = No	o information available					
Other LD50 or LC50informat	ion = No information available					
Potassium Ferrocyanide, Trihydrate						
CAS No	14459-95-1					
LD50/oral/rat = No informatio						
LD50/oral/mouse = No inforr LD50/dermal/rabbit = No info						
LD50/dermal/rabbit = No inform						
LC50/inhalation/rat = No info						
LC50/inhalation/mouse = No						
	ion = 6400 mg/kg oral LD50 Rat (CAS number 13943-58-3 for anhydrous forn	n)				
	(CAS number 13943-58-3 for anhydrous form)	,				
	· · · · · · · · · · · · · · · · · · ·					
Product Information						
LD50/oral/rat =						
Value - Acute Tox = No informat	ion available					
LD50/oral/mouse =						
Value - Acute Tox Oral = No inf	ormation available					
LD50/dermal/rabbit Value - Acute Tox = No informat	ion available					
LD50/dermal/rat VALUE - Acute Tox Dermal = No information available						
LC50/inhalation/rat						
VALUE-Vapor = No information :	available					
VALUE-Gas = No information av						
VALUE-Gas = No information available						
LC50/Inhalation/mouse						
VALUE-Vapor = No information a						
VALUE - Gas = No information a						
VALUE - Dust/Mist = No informa	ation available					
Symptoms_						
Skin Contact:	May cause skin irritation.					
Eye Contact:	May cause eye irritation.					
Inhalation	Health injuries are not known or expected under normal use. May cause respiratory irritation.					
Ingestion	Health injuries are not known or expected under normal use. Causes gastrointestinal (digestive) tract irritation with nausea, vomiting, and diarrhea.					
Aspiration hazard	No information available.					
Product code: P-321	Product name: POTASSIUM FERROCYANIDE, 7 PERCENT (W/V) AQUEOUS SOLUTION	Page				

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Prolonged or repeated ingestion may affect the urinary system.

Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects:

Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Potassium Ferrocyanide, Trihydrate	14459-95-1	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity	No data is available
Reproductive Effects:	No information available
Developmental Effects:	No information available
Teratogenic Effects:	No information available

Specific Target Organ Toxicity

STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target Organs:	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:	No data available.
Persistence and degradability:	No information available
Bioaccumulative potential:	No information available.
Mobility in soil Other adverse effects	No information available No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Product code: P-321

Waste from residues / unused products: Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Water	7732-18-5	None	None	None	None
Potassium Ferrocyanide, Trihydrate	14459-95-1	None	None	None	None

14. TRANSPORT INFORMATION

UN-No:Not RegulatedProper Shipping Name:No information availableHazard ClassNo information availableSubsidiary ClassNo information availablePacking group:No information availablePacking group:No information availableMarine PollutantNo data availableDOT RQ (Ibs):No information availableSymbol(s):No information availableSymbol(s):No information availableDOT RQ (Ibs):No information availableSymbol(s):No information availableDescription:No information availableTDG (Canada)No information availableUN-No:No information availableProper Shipping Name:No information availableAddrig Group:No information availableMarine PollutantNo information availableDescription:No information availableMarine PollutantNo information availableDescription:No information availableMDGUN-No:Not regulatedProper Shipping Name:No information availableNo information availableNo information availableNo information availableNo information availableNDGUN-No:Not RegulatedProper Shipping Name:No information availableNo information availableNo information availableNo information availableNo information availableNo information availableNo information availableMDGUN-No:Not RegulatedProper Sh	DOT	
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Product code: P-321 Product name: Po	Transport hazard class(es)	No information available
Product code: P-321 Product name: PC		
	Product code: P-321	Product name: P

Subsidiary Risk: Packing group	No information available No information available
ICAO (air) UN-No: Proper Shipping Name: Hazard Class Subsidiary Risk: Packing Group:	Not Regulated No information available No information available No information available No information available
IATA UN Number Proper Shipping Name: Transport hazard class(es) Subsidiary Risk: Packing group Precautionary Statements - Response Special Provisions	Not Regulated No information available No information available No information available IF exposed or concerned No information available

15. REGULATORY INFORMATION

International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia AICS	EINECS-No.
Water	7732-18-5	PresentACTIV E	Present KE-35400	Present	Not present	Present	Present	Present 231-791-2
Potassium Ferrocyanide, Trihydrate	14459-95-1	Not Listed. Exempt from listing since it is a hydrate	Not present	Present	Present (1)-815	Present	Present	Not present

U.S. Regulations

Potassium Ferrocyanide, Trihydrate

New Jersey - Discharge Prevention - List of Hazardous Substances: Listed as Cyanide compounds Pennsylvania RTK - Environmental Hazard List Listed as Cyanide compounds Minnesota - Hazardous Substance List: Listed as Iron soluble salts New York Release Reporting - List of Hazardous Substances: Listed as Cyanide compounds California Directors List of Hazardous Substances: Listed as Iron soluble salts

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity		Female Reproductive
				Toxicity	Toxicity:
Water	7732-18-5	Not Listed	Not Listed	Not Listed	Not Listed
Potassium Ferrocyanide, Trihydrate	14459-95-1	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Component CAS No CERCLA - Section 302 Section 302 Section 313 - Section 3

		Hazardous Substances and their Reportable Quantities	Extremely Hazardous Substances and TPQs	Extremely Hazardous Substances and RQs	Chemical Category	Reporting de minimis
Water	7732-18-5	None	None	None	None	None
Potassium Ferrocyanide, Trihydrate	14459-95-1	None	None	None	Cyanide compounds	1%

U.S. TSCA

Component		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Water	7732-18-5	Not Applicable	Not Applicable
Potassium Ferrocyanide, Trihydrate	14459-95-1	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Not a dangerous product according to HPR classification criteria. Information:

Component Water 7732-18-5 (93) WHMIS 2015 Hazard Classification Not a dangerous product according to HPR classification criteria

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Water	7732-18-5	Present	Not Listed
Potassium Ferrocyanide, Trihydrate	14459-95-1	Not Listed	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Water	7732-18-5	Not listed
Potassium Ferrocyanide, Trihydrate	14459-95-1	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Water	7732-18-5	Not listed
Potassium Ferrocyanide, Trihydrate	14459-95-1	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Water	7732-18-5	
Potassium Ferrocyanide, Trihydrate	14459-95-1	

EU - CLP (1272/2008)

R-phrase(s)

not determined (not applicable)

S -phrase(s)

none

Component	CAS No	Classification	Concentration	Safety Phrases
			Limits:	
Water	7732-18-5		No information	
Potassium Ferrocyanide,	14459-95-1		No information	
Trihydrate				

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger: None

16. OTHER INFORMATION

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Prepared by:	Sonia Owen

Disclaimer:

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End of Safety Data Sheet