

SAFETY DATA SHEET

1. Identification

Product identifier: POTASSIUM FERROCYANIDE

Other means of identification Product No.: 3114, 6932

Recommended use and restriction on use

Recommended use: Not available. Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company Name:	Avantor Performance Materials, Inc.
Address:	3477 Corporate Parkway, Suite 200 Center Valley, PA 18034
Telephone:	Center Valley, 1 A 10034
_	Customer Service: 855-282-6867
Fax:	
Contact Person: e-mail:	Environmental Health & Safety info@avantormaterials.com

Emergency telephone number:

24 Hour Emergency: 908-859-2151

Chemtrec: 800-424-9300

2. Hazard(s) identification

Hazard classification	Not classified		
Label elements Hazard symbol:	No symbol		
Signal word:	No signal word.		
Hazard statement:	Not applicable		
Precautionary statement	Not applicable		

Other hazards which do not None. result in GHS classification:

3. Composition/information on ingredients



Mixtures

Chemical identity	Common name and synonyms	CAS number	Content in percent (%)*					
POTASSIUM FERROCYANIDE (HYDRATED FORM) * All concentrations are percent to	y weight unless ingredier	14459-95-1	98 - 100% entrations are in percent by volume.					
Composition comments:	No hazardous in	-						
4. First-aid measures								
General information: Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.								
Ingestion:	Rinse mouth tho	roughly. Get mec	lical attention if symptoms occur.					
Inhalation:	Move to fresh air	. Get medical att	ention if symptoms persist.					
Skin contact:		Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing. Wash contaminated clothing before reuse.						
Eye contact:	Flush thoroughly	with water. If irrit	tation occurs, get medical assistance.					
Most important symptoms/effe	cts, acute and delay	yed						
Symptoms:	May cause irritat	May cause irritation to skin, eyes, and respiratory tract.						
ndication of immediate medical	attention and spec	ial treatment ne	eded					
Treatment:	Treat symptomat	ically. Symptoms	s may be delayed.					
5. Fire-fighting measures								
General fire hazards:	In case of fire an	d/or explosion do	o not breathe fumes.					
Suitable (and unsuitable) exting	guishing media							
Suitable extinguishing Use fire-extinguishing media appropriate for surrounding materials. media:								
Unsuitable extinguishing media:	None known.							
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.							
Special protective equipment a	and precautions for	firefighters						
Special fire fighting procedures:	Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool.							
Special protective equipment for fire-fighters:	ent Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.							

6. Accidental release measures



Personal precautions, protective equipment and emergency procedures:	Keep unauthorized personnel away. Ventilate closed spaces before entering them. Use personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment.
Methods and material for containment and cleaning up:	Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.
Notification Procedures:	Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.
Environmental precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.
7. Handling and storage	
Precautions for safe handling:	Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Do not eat, drink or smoke when using the product. Avoid inhalation of dust. Wash thoroughly after handling.
Conditions for safe storage, including any incompatibilities:	Keep container tightly closed. Store in a well-ventilated place. Store in a dry place.
8. Exposure controls/personal	protection
Control parameters	
Occupational exposure limits	S
	None of the components have assigned exposure limits.

Appropriate engineering No data available. controls

Individual protection measures, such as personal protective equipment

General information:	Good general ventilation (typically 10 air changes per hour) should be used Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area.			
Eye/face protection:	Use tight fitting goggles if dust is generated.			
Skin protection Hand protection:	Wear protective gloves.			
Other:	Wear suitable protective clothing.			
Respiratory protection:	In case of inadequate ventilation use suitable respirator.			
Hygiene measures:	Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned. Wash skin thoroughly with soap and water. Do not eat, drink or smoke when using the product. Wash contaminated clothing before reuse.			

9. Physical and chemical properties



Physical state:SolidForm:GranulesColor:YellowOdor:Odorless	
Color:YellowOdor:Odorless	
Odor: Odorless	
Odor threshold: No data available.	
pH: No data available.	
Melting point/freezing point: 60 °C (Loses water)	
Initial boiling point and boiling range: No data available.	
Flash Point: Not applicable	
Evaporation rate: No data available.	
Flammability (solid, gas): No data available.	
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%): No data available.	
Flammability limit - lower (%): No data available.	
Explosive limit - upper (%): No data available.	
Explosive limit - lower (%): No data available.	
Vapor pressure: No data available.	
Vapor density: No data available.	
Relative density:1.85 (20 °C)	
Solubility(ies)	
Solubility in water: Soluble	
Solubility (other): No data available.	
Partition coefficient (n-octanol/water): No data available.	
Auto-ignition temperature: No data available.	
Decomposition temperature: No data available.	
Viscosity: No data available.	

10. Stability and reactivity

Reactivity:	Contact with acid liberates poisonous gas.
Chemical stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	Contact with incompatible materials.
Incompatible materials:	Strong oxidizing agents. Strong acids.
Hazardous decomposition products:	Thermal decomposition may produce oxides of nitrogen. Cyanides.

11. Toxicological information

rmation on likely routes of ex Ingestion:	posure Large amount may cause gastrointestinal upset.	
Inhalation: Dust may irritate respiratory system.		
Skin contact: May cause irritation.		
Eye contact:	May cause temporary eye irritation.	



Information on toxicological effects

Acute toxicity (list all possible routes of exposure)				
Oral Product:	LD 50 (Rat): 6,400 mg/kg			
Dermal Product:	No data available.			
Inhalation				
Product:	No data available.			
Repeated dose toxicity Product:	No data available.			
Skin corrosion/irritation Product:	May cause skin irritation.			
Serious eye damage/eye irritation Product:	on May irritate eyes.			
Respiratory or skin sensitization Product:	n Not a skin sensitizer.			
Carcinogenicity Product:	This substance has no evidence of carcinogenic properties.			
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified				
US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified				
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified				
Germ cell mutagenicity				
In vitro Product:	No mutagenic components identified			
In vivo Product:	No mutagenic components identified			
Reproductive toxicity Product:	No components toxic to reproduction			
Specific target organ toxicity - single exposure Product: None known.				
Specific target organ toxicity - repeated exposure Product: None known.				
Aspiration hazard Product:	Not classified			
Other effects:	None known.			



12. Ecological information

Ecotoxicity:	
Acute hazards to the aquatic e	nvironment:
Fish Product:	No data available.
Aquatic invertebrates Product:	No data available.
Chronic hazards to the aquation	environment:
Fish Product:	No data available.
Aquatic invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	No data available.
Persistence and degradability	
Biodegradation Product:	There are no data on the degradability of this product.
BOD/COD ratio Product:	No data available.
Bioaccumulative potential Bioconcentration factor (BCI Product:	F) No data available on bioaccumulation.
Partition coefficient n-octand Product:	ol / water (log Kow) No data available.
Mobility in soil:	The product is water soluble and may spread in water systems.
Other adverse effects:	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
13. Disposal considerations	
Disposal instructions:	Discharge, treatment, or disposal may be subject to national, state, or local laws.
Contaminated packaging:	Since emptied containers retain product residue, follow label warnings even after container is emptied.
14. Transport information	

DOT

Not regulated.

IMDG

Not regulated.

IATA



Not regulated.

15. Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund amendments and reauthorization act of 1986 (SARA)

Hazard categories

Х	Acute (Immediate)	Chronic (Delayed)	Fire	Reactive	Pressure Generating

SARA 302 Extremely hazardous substance

None present or none present in regulated quantities.

SARA 304 Emergency release notification

None present or none present in regulated quantities.

SARA 311/312 Hazardous chemical

Chemical identity Threshold Planning Quantity

SARA 313 (TRI reporting)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US state regulations

US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

- US. New Jersey Worker and Community Right-to-Know Act No ingredient regulated by NJ Right-to-Know Law present.
- US. Massachusetts RTK Substance List No ingredient regulated by MA Right-to-Know Law present.
- US. Pennsylvania RTK Hazardous Substances No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

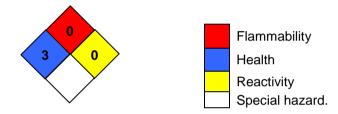


Inventory Status:

Australia AICS: Canada DSL Inventory List: EINECS, ELINCS or NLP: Japan (ENCS) List: China Inv. Existing Chemical Substances: Korea Existing Chemicals Inv. (KECI): Canada NDSL Inventory: Philippines PICCS: US TSCA Inventory: New Zealand Inventory of Chemicals: Japan ISHL Listing: Japan Pharmacopoeia Listing: On or in compliance with the inventory Not in compliance with the inventory. On or in compliance with the inventory. On or in compliance with the inventory. On or in compliance with the inventory. Not in compliance with the inventory.

16.Other information, including date of preparation or last revision

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue date:	07-24-2014
Revision date:	No data available.
Version #:	1.0
Further information:	No data available.



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