

SAFETY DATA SHEET

Creation Date 14-May-2010

Revision Date 24-Dec-2021

Revision Number 4

1. Identification

Product Name

Prussian Blue

Cat No. :AC215210000; AC215210250; AC215211000CAS No14038-43-8SynonymsC.I. 77510; Ferric ferrocyanide; Pigment Blue 27Basemmended UseLaboratory chamicals

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements
None required

<u>Hazards not otherwise classified (HNOC)</u> None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %		
Ferric ferrocyanide		14038-43-8	100		
	1 Eirct	-aid measures			
	4. FII St	-alu measules			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.				
Skin Contact		y with soap and plenty of wate Get medical attention.	er while removing all contaminated		
nhalation	Remove from expos	ure, lie down. Remove to fresl	n air. Get medical attention.		
ngestion	Clean mouth with wa	ater. Get medical attention.			
lost important symptoms and ffects	No information availa	able.			
Notes to Physician	Treat symptomatical	ly			
	5. Fire-fig	phting measures			
uitable Extinguishing Media	Water spray. Carbor	n dioxide (CO 2). Dry chemical.	Chemical foam.		
Insuitable Extinguishing Media	No information availa	able			
Flash Point Method -	No information availa				
utoignition Temperature	No information availa	able			
Explosion Limits Upper	No data available				
Lower	No data available				
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information availa No information availa				
specific Hazards Arising from the C	hemical				
eep product and empty container awa	ay from heat and sour	rces of ignition.			
Hazardous Combustion Products Nitrogen oxides (NOx). Hydrogen cyan Protective Equipment and Precautio As in any fire, wear self-contained brea protective gear.	ns for Firefighters		(approved or equivalent) and full		
IFPA Health	Flammability	Instability	Physical hazards		
0	0	0	N/A		
	6. Accidenta	I release measure	S		
Personal Precautions Invironmental Precautions	Ensure adequate ve	ntilation. Use personal protect dditional Ecological Informatic	ive equipment as required.		
lethods for Containment and Clean	Avoid dust formation this chemical enter the third states the states of		itable containers for disposal. Do not le		

7. Handling and storage

Handling	Avoid contact with skin and eyes. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance.
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible Materials. Strong oxidizing agents. Strong acids.

8. Exposure controls / personal protection

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Ferric ferrocyanide	TWA: 1 mg/m ³	(Vacated) TWA: 1 mg/m ³	IDLH: 25 mg/m ³	TWA: 1 mg/m ³
		(Vacated) TWA: 5 mg/m ³	TWA: 1 mg/m ³	

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures

None under normal use conditions.

Personal Protective Equipment

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

rand chemical properties
Powder Solid
Dark blue
No information available
No information available
No information available
No data available
No information available
No information available
Not applicable
No information available
No data available
No data available
No information available
Not applicable
No information available
No information available
No data available
No information available
No information available
Not applicable
C18 Fe7 N18
859.25

	10. Stabil	lity and rea	activity				
Reactive Hazard		3	y				
	,	None known, based on information available					
Stability	Stable.	Stable.					
Conditions to Avoid	Incompatible produc	cts.					
Incompatible Materials	Strong oxidizing age	ents, Strong acids	3				
Hazardous Decomposition Products Nitrogen oxides (NOx), Hydrogen cyanide (hydrocyanic acid)							
Hazardous Polymerization Hazardous polymerization does not occur.							
Hazardous Reactions	None under normal	None under normal processing.					
	11. Toxico	logical info	ormation				
Acute Toxicity							
Product Information Component Information	No acute toxicity inf	ormation is availa	able for this produc	ct			
Component	LD50 Oral		LD50 Dermal	LC50	Inhalation		
Ferric ferrocyanide	LD50 > 1 g/kg (Rat)		Not listed	No	t listed		
Toxicologically Synergistic Products	No information avail	lable					
Delayed and immediate effects a	as well as chronic effec	ts from short an	d long-term expo	osure			
Irritation	No information avai	lable					
Sensitization	No information avai	lable					
Carcinogenicity	The table below ind	icates whether ea	ach agency has lis	ted any ingredient	as a carcinogen.		
Component CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
Ferric ferrocyanide 14038-43-		Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects	No information avai	ladie					
Reproductive Effects	No information avai	lable.					
Developmental Effects	No information avail	lable.					
Teratogenicity	No information avai	lable.					
STOT - single exposure STOT - repeated exposure	None known None known						
Aspiration hazard	No information avai	No information available					
Symptoms / effects,both acute delayed	cute and No information available						
Endocrine Disruptor Information No information available							
Other Adverse Effects	The toxicological procession of toxicologi		been fully investig	gated. See actual e	ntry in RTECS for		
	12. Ecolo	gical infor	mation				

Ecotoxicity

Do not empty into drains.

Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.
Bioaccumulation/ Accumulation	No information available.
Mobility	Will likely be mobile in the environment due to its water solubility.
	13 Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information				
DOT TDG IATA	Not regulated			
TDG	Not regulated			
IATA	Not regulated			
IMDG/IMO	Not regulated			
15. Regulatory information				

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Ferric ferrocyanide	14038-43-8	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Ferric ferrocyanide	14038-43-8	Х	-	237-875-5	Х	-		Х	Х	KE-16966

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicabl	le		
C	omponent	CAS No	Weight %	SARA 313 - Threshold Values %
Ferri	c ferrocyanide	14038-43-8	100	1.0

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Ferric ferrocyanide	-	-	Х	Х

Clean Air Act

Not applicable

Component		HAPS Data	Class 1 Ozone De	pletors C	Class 2 Ozone Depletors		
Ferric ferrocyanide		X			-		
OSHA - Occupational Safe Health Administration	ety and Not	applicable					
CERCLA		Not applicable					
California Proposition 65		This product does not contain any Proposition 65 chemicals.					
U.S. State Right-to-Know Regulations	v Not	applicable					
Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island		
Ferric ferrocyanide	-	Х	Х	Х	Х		
U.S. Department of Trans Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollut	N Y						
U.S. Department of Homeland Security		This product does not contain any DHS chemicals.					
Other International Regu	lations						
Maxiaa Crada		No information evolution					

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Ferric ferrocyanide	14038-43-8	Not applicable	Not applicable	Not applicable	Not applicable
	1	•			T
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Ferric ferrocyanide	14038-43-8	Not applicable	Not applicable	Not applicable	Annex I - Y33

16. Other information				
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com			
Creation Date Revision Date Print Date Revision Summary	14-May-2010 24-Dec-2021 24-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).			

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS