

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

Page 1 of 16

Trading name:	POTASSIUM HEXACYANOFERRATE, SOLUTION				
Product code:	KHC-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

1.1.	Product identifier				
	Trading name:	POTASSIUN	1 HEXACYAN	NOFERRATE, SOLUTION	
	Chemical name:	_			
	Catalogue number:	KHC-OT-X*	*		
1.2.	Relevant identified uses	of the subs	tance or mix	ture and uses advised against	
	Uses:		For use wit	th HemoGnost Perls kit.	
	Uses advised against:		Only the ic	dentified uses are advised.	
	Reason why uses advised against: me		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes		
1.3.	Details of the supplier of	Details of the supplier of the safety data sheet			
	Supplier: Bio		BioGnost Ltd.		
	Address: N		edjugorska !	59, Zagreb	
	Telephone number: +		+385 1 2409997		
	Fax no.: +		+385 1 2404039		
	e-mail of competent pe	e-mail of competent person: <u>m</u>		msds@biognost.hr	
	National contact:	-	-		
1.4.	Emergency telephone number				
1.4.	Linergency telephone in				
1.4.	National Protection and	l Rescue Dire	ectorate:	112	
1.4.	<u> </u>	l Rescue Dire	ectorate:	112 +385 1 2348 342	

SECTIO	ON 2 HAZARDS INFORMATION	ı			
2.1.	Classification of the substance or mixture				
2.1.1.	Classification (REGULATION (E	C) No. 1272/2008	(CLP)		
	Hazard class and category code: Hazard statements*:				
	Not identified as hazardous substance.		-		
2.1.2.	2.1.2. Additional information				
	-				
*For fu	III text of Hazard- and EU Hazard	-statements: see S	Section 16		
2.2.	Classification according to EC	Directive Nr. 1272	/2008 CLP)		
	Product identification:	POTASSIUM	HEXACYANOFERRATE, SOLUTION		
	Identification number:	-			
	Authorization no.:	-			
	Hazard pictograms: -				



Page 2 of 16

Trading name:	POTASSIUM HEXACYANOFERRATE, SOLUTION				
Product code:	KHC-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

	Signal word: -
	Hazard statements: -
	Precautionary statements: -
	Further information: -
2.3.	Other hazards
	Endocrine Disrupting Properties:
	No known endocrine disrupting properties
	Results of PBT and vPvB assessment : According to the results of its assessment, this substance is not a PBT or a vPvB.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS				
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)
_	-	-	Contains no hazardous substances	-

SECTION	ON 4 FIRST AID MEASURES		
4.1.	Description of first aid measures		
	General notes:	-	
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to-mouth) and contact a physician.	
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.	
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician.	
	Following ingestion:	Do not induce vomiting. Make the afflicted person drink a glass of water. If spontaneous vomiting occurs, wash the mouth with water, then make the person drink 100-200 ml of water and seek medical attention.	
	Self-protection of the first ai	der: Treat symptomatically.	
4.2.	Most important symptoms a	nd effects, both acute and delayed	
	Following inhalation:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.	
	Following skin contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.	



Page 3 of 16

Trading name:	POTASSIUM HEXACYANOFERRATE, SOLUTION				
Product code:	KHC-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

	Following eye contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.			
	Following ingestion:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.			
4.3.	Indication of any immediate medical attention and special treatment needed				
	-				

SECTIO	SECTION 5 FIREFIGHTING MEASURES				
5.1.	Extinguishing media				
	Suitable extinguishing media: Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol-resistant foam				
	Unsuitable extinguishing media: water jet				
5.2.	Special hazards arising from the substance or mixture				
	Hazardous combustion products: No information available				
5.3.	Advice for firefighters				
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. Cool closed containers exposed to fire with water spray or vapor.				
5.4.	Additional information				
	Remove sources of heat and ignition. Do not contaminate the environment with extinguishing media.				

SECTIO	SECTION 6 ACCIDENTAL RELEASE MEASURES				
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personnel				
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Wear protective equipment (see Section 8).				
6.2.	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3.	Methods and material for containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.			



Page 4 of 16

Trading name:	POTASSIUM HEXACYANOFERRATE, SOLUTION				
Product code:	KHC-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.
6.3.3.	Other information:	-
6.4.	Reference to other sections	
	-	

SECTIO	ON 7 HANDLING AN STORAGE				
7.1.	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:		Keep away from sources of heat and ignition. Do not smoke.		
	Measures to prevent aerosol and dust generati	on:	Secure proper ventilation.		
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.		
	Other measures:		-		
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.				
7.2.	Conditions for safe storage, including any inco	bilities			
	Technical measures and storage conditions:	ven	Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances.		
	Packaging materials:	Ma	nufacturer's original packaging.		
	Requirements for storage rooms and vessels:		Keep away from food and drink. Keep the containers tightly closed.		
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.			
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (se Section 9).			
7.3.	Specific end use(s)				
	Recommendations:	-			
	Industrial sector specific solutions:				



Page 5 of 16

Trading name:	POTA	ASSIUM HEXACYANOF	ERRATE, SOLUTIO	N
Product code:	KHC-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION								
		meters						
Substance				val	cupational exposure limit alues/short term values		Biological limit values	
					ŗ	opm	mg/m³	No information and labels
-			-			-	-	No information available
Substance - name:								
EC No:	_		CAS No:	-				
DNEL				<u> </u>				
					Ind	lustrial		
Route of exposure:			Acute ect local	effe	Acute		Chronic effect loc	Chronic effect systemic
Oral		-		-			-	-
Inhalation		-		-			-	-
Dermal		-		-			-	-
Critical physica	al parar	neters: s	solubility, fla	mmabilit	ty, corr	rosivity:	-	
					Cor	nsumer	·	
Route of exposure:			Acute ect local	effe	Acute			Chronic effect systemic
Oral		-		-			-	-
Inhalation		1		-			-	-
Dermal		-		-			-	-
PNEC								
Environmental	protec	tion tar	get			PNEC		
Fresh water						No information available		
Freshwater sec	diments	5				No information available		
Marine water	Marine water					No information available		
Marine sediments					No information available			
Food chain					No information available			
Microorganisms in sewage treatment					No information available			
Soil (agricultur	Soil (agricultural)					No information available		
Air						No infor	mation availab	le



Page 6 of 16

Trading name:	POTASSIUM HEXACYANOFERRATE, SOLUTION						
Product code:	KHC-OT-X**	Date of compilation:	21 Dec 2022	Version:	4		

8.2.	Exposure controls	posure controls				
8.2.1.	Engineering measures					
	Substance/mixture related measures to prevent exposure during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structural measures to preexposure:	revent	No information available			
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to pr exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.			
8.2.2.	Personal protection equi	oment				
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (preventing splashing) (EN 166) or visor.				
8.2.2.2.	Skin protection					
	Hand protection:		ctive gloves must be according to the EU Directive 2016/425/EEC and ard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min			
	Other skin protection:	Wear antistatic clothing made of natural fibers (such as cotton) wit sleeves (EN 13034), and shoes that cover the entire foot (EN 10335				
8.2.2.3.	Respiratory protection:	filter f	ctive full face mask (EN 136) or half mask (EN 140) equipped with a or organic vapors, type "A" (boiling point >65°C) acording to EN () used when concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No inf	formation available			
8.2.3.	Environmental exposure	controls				
	Substance/mixture relate measures to prevent expe		See Section 6			
	Structural measures to preexposure:	event	Use modern equipment.			
	Organisational measures to prevent exposure:		Adapt the work process to the required working conditions of the workplace.			
	Technical measures to pr exposure:	event	See Section 6			

SECTIO	SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES				
9.1.	Information on basic physical and chemical properties				
	Value	Method			



Page 7 of 16

Trading name:	POTASSIUM HEXACYANOFERRATE, SOLUTION						
Product code:	KHC-OT-X**	Date of compilation:	21 Dec 2022	Version:	4		

	Physical state:	liquid	No information available
	Colour:	colourless	No information available
	Odour/odour threshold:	no information available	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	No information available	No information available
	Flammability:	No information available	No information available
	Lower and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	рН:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient n-octanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density:	No information available	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	No information available	No information available
2.	Other information		

SECTIO	SECTION 10 STABILITY AND REACTIVITY			
10.1.	Reactivity:	See subsections 10.3 through 10.5.		
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.		
10.3.	Possibility of hazardous reactions:	No information available		
10.4.	Conditions to avoid:	No information available		
10.5.	Incompatible materials:	No information available		
10.6.	Hazardous decomposition products:	No information available		

SECTIO	SECTION 11 TOXICOLOGICAL INFORMATION				
11.1.	. Information on hazard classes as defined in Regulation (EC) No 1272/2008				
	Acute toxicity:				



Inhalation exposure:

Eye exposure:

No information available

No information available

SAFETY DATA SHEET According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

Page 8 of 16

Trading name:	POTASSIUM HEXACYANOFERRATE, SOLUTION						
Product code:	KHC-OT-X**	Date of compilation:	21 Dec 2022	Version: 4			

Product code:	KHC-OT-X**	Date of o	compilation:	21 Dec 2	2022	Version: 4	
Route of exposure:	Method	Species	Effective dos LD ₅₀ /LC ₅₀ o ATE _{mixture}		oosure time	e Results	
Oral exposure:	No information available	_	LD ₅₀		_	_	
Dermal exposure:	No information available	-	LD ₅₀		-	-	
Inhalation exposure:	No information available	-	LC ₅₀		-	-	
Specific ta	rget organ toxicity – si	ngle exposure (S	STOT SE):				
	Specif	ic effects	Targe	t organ		Note	
Oral exposure:	ral exposure: No information available		No inform available	No information		-	
Dermal exposure:	rmal evnocure: No intormation available		No inform available	_			
Inhalation exposure	e: No information	ormation available		No information - available			
Respirator	y irritation:	No infor	mation availabl	e			
Irritation a	and corrosion						
	Exposure time	Species	Evalu	uation	Met hod	Note	
Skin irritation:	-	-	-		-	-	
Eye irritation:	_	-	_		-	_	
Sensitizati	on						
Dermal exposure:	No information avail	able					
Inhalation exposure:	No information avail	able					
Symptoms	s related to the physica	l chemical and	toxicological ch	naracteristi	CS		
Oral exposure:	No information av		comediagical ci	iaracteri3ti			
Dermal exposure:	No information av						



Subchronic dermal

Chronic oral

Subchronic inhalation

No information available

No information available

No information available

SAFETY DATA SHEET According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

Page 9 of 16

Trading name:	POTASSIUM HEXACYANOFERRATE, SOLUTION				
Product code:	KHC-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No information available	No information available	-
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-
Chronic oral	No information available	No information available	No information available	No information available	No information available	-
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-
Spacific	target organ toxicit	v – reneated o	vnosure (STO	T RE).		
Specific		pecific effects	Aposure (STO	Target orga	an	Note
Subacute oral		tion available	N	o information avai		
Subacute derma		ition available		o information avai		
Subacute inhalat	ion No informa	ntion available	N	o information avai	ilable -	
Subchronic oral No information available			N	o information ava	ilable -	
	·······					

No information available

No information available

No information available

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Page 10 of 16

Trading name:	Р	OTASSIUM HEXACYANOF	ERRATE, SOLUTIO)N
Product code:	KHC-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

Chronic dermal No information Chronic inhalation No information		n available	No information available	-				
		on available No information available -						
	CMR effects	(carcinogenicity, ı	nutagenicity, rep	roductive toxicity)				
	Carcinogenio			able data, the classification criteria a	are not met.			
	Mutagenicity	ı in-vitro:	Based on avail	able data, the classification criteria a	are not met.			
	Genotoxicity:		Based on avail	Based on available data, the classification criteria are not met.				
	Mutagenicity	ı in-vivo:	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.					
	Germ cell mu	utagenicity:						
	Reproductive	e toxicity:						
11.2	Information	on other hazards:						
11.2.1.		srupting propertion	7 C.					
	The substance components endocrine according to Commission 2017/2100 commission components are substance according to Commission commission components are substance are s	ce/mixture does n	ot contain to have properties 57(f) or ation (EU) degulation					
11.2.2.	Other inform	nation:						

SECTION 12 ECOLOGICAL INFORMATION:								
12.1. Toxicity								
Acute toxicity	Dose	Exposure time	Species	Method	Evaluation	Note		
Fish	LC ₅₀	96 hours	No information available	No information available	-	-		
Crustacea:	EC ₅₀	48 hours	No information available	No information available	-	-		
Algae/aquatic plants	IC ₅₀	8 days	No information available	No information available	-	-		



Page 11 of 16

Trading name:	POTASSIUM HEXACYANOFERRATE, SOLUTION				
Product code:	KHC-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

Microorganisms	LC ₅₀	72 hours	-	-	-	-
Chronic toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-

12.2. Persistence and degradability

Abiotic	doars	ndation
AUMONIC	\Box	101411011

	Degradation half-lives	Method	Evaluation	Note
Marine water	No information available	No information available	No information available	-
Fresh water	No information available	No information available	No information available	-
Air	No information available	No information available	No information available	-
Soil	No information available	No information available	No information available	-

Biodegradation

% Degradation	Time (days)	Method	Evaluation	Note
No information available	No information available			No information available

12.3. Bioaccumulative potential

Partition coefficient: n-octanol/water (log Kow):

	-					7
Value	Concentration	рН	°C	Method	Evaluation	Note
-	No information available	-	_	No information available	No information available	-



Page 12 of 16

Trading name:	POTASSIUM HEXACYANOFERRATE, SOLUTION				
Product code:	KHC-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

Product co	ode: Kl	HC-OT-X**		Date o	of compilati	on: 21 Dec	2022	Version:	4
Bio	oconcentrat	ion factor (BCF)							
Value		Species	<u> </u>	Me	thod	Evaluation		Note	
No informa available	ition No	<u>`</u>	nation	No inforn available		No information	on No info	ormation a	/ailable
Ch	ıronic ecoto	oxicity							
V	'alue	Dose		osure ime	Species	Method	Evalua	tion	Note
Chronic tox	cicity on fish	LC ₅₀	No infor availa	mation i	No nformation available	No information available	No inform available	nation -	
Chronic tox crustacea (<i>I</i>	•	EC ₅₀	No infor availa	mation i	No nformation available	No information available	No inform available	nation -	
12.4. Mo	obility in so	il							
Kn	own or pre	dicted distributi	ion in e	environmer	ntal compart	ments:			
No	informatio	n available							
Su	rface tensio	n:			Ţ				
	Value	°C	C	oncentratio	on	Method		Note	
	ormation ailable	No information available		informatio ilable	n No inf availat	ormation ole	-		
Ac	lsorption / o	desorption							
Transport	-	coefficient 's constant	lc	g Kow	Evap	oration rate	M	ethod	Note
Soil-water	No available	information	No ir availa	nformation able	No inform	nation available	No info	ormation ble	-
Water-air	No available	information	No ir availa	nformation able	No inform	nation available	No info	ormation le	-
Soil-air	No available	information	No ir	nformation	No inform	nation available	No info	ormation	-



Page 13 of 16

Trading name:	POTASSIUM HEXACYANOFERRATE, SOLUTION				
Product code:	KHC-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

12.5.	Results of PBT and vPvB assessment
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.6.	Endocrine disrupting properties
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7.	Other adverse effects
	No information available
SECTIO	N 13 DISPOSAL CONSIDERATIONS
13.1.	Waste treatment methods
13.1.1.	Product/Packaging disposal:
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.
13.1.2.	Waste codes/waste designations according to Law:
	No information available
13.1.3.	Waste treatment – relevant information:
13.1.3.	No information available
13.1.4.	Course disposal reloyant informations
13.1.4.	Sewage disposal – relevant information: Waste must not be disposed of into the sewage system.
1215	Other disposal recommendations:
13.1.5.	Other disposal recommendations: Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.



SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

Page 14 of 16

Trading name:	POTASSIUM HEXACYANOFERRATE, SOLUTION				
Product code:	KHC-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

SECTION 14 TRANSPORT INFORMATION	DN			
Transporting/shipment by road	(ADR)			
UN number:	Not subject to transport regulations.			
UN proper shipping name:	-			
Transport hazard class(es):	-			
Packing group:	-			
Environmentally hazardous:	-			
Special precautions for user:	-			
Transporting/shipment by rail (R	RID)			
UN number:	Not subject to transport regulations.			
UN proper shipping name:	-			
Transport hazard class(es):	-			
Packing group:	-			
Environmentally hazardous:	-			
Special precautions for user:	-			
Inland waterway transport (ADN)			
UN number:	Not subject to transport regulations.			
UN proper shipping name:	-			
Transport hazard class(es):	-			
Packing group:	-			
Environmentally hazardous:	-			
Special precautions for user:	-			
Transporting/shipment by sea (I	MDG)			
UN number:	Not subject to transport regulations.			
UN proper shipping name:	-			
Transport hazard class(es):	-			
Packing group:	-			
Environmentally hazardous:	-			
Special precautions for user:	-			
Transporting/shipment by air (ICAO-TI/IATA-DGR)				
UN number:	Not subject to transport regulations.			
UN proper shipping name:	-			
Transport hazard class(es):	-			
Packing group:	-			
Environmentally hazardous:	-			



SAFETY DATA SHEET According to Regulation (EC) No. 1907/2006

amended by Regulation (EU) No. 2020/878

Page 15 of 16

Trading name:	POTASSIUM HEXACYANOFERRATE, SOLUTION				
Product code:	KHC-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	
Special precaution	ns for user	_			

Special precautions for user:	-
Further information: -	

SECTIO	SECTION 15 REGULATORY INFORMATION						
15.1.	Safety, health and environme	Safety, health and environmental regulations/legislation specific for the substance or mixture					
	EU regulations						
	Authorization and/or restricti	ons of use					
	Authorizations:	-					
	Restrictions:	-					
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);					
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-quideline)						
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act					
15.2.	Chemical safety assessment						
	None						

SECTION 16 Other information		
16.1. Indication of changes:	-	



SAFETY DATA SHEET

amended by Regulation (EU) No. 2020/878

Page 16 of 16

Trading name:	POTASSIUM HEXACYANOFERRATE, SOLUTION				
Product code:	KHC-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

16.2.	Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative	
16.3.	Key literature references and source of data:	-	
16.4.	Classification and procedure to 1272/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)	
Classifi	cation	Classification procedure	
-		-	
16.5.	Relevant H statements (numb	er and full text)	
	H: -	-	
16.6.	Training advice:	-	
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.	

ANNEX:

Exposure scenario resulting to Chemical safety assessment