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Trade name:		IRON CHLORIDE, SOLUTION						
Product code:	FK-OT-X**	Date of compilation:	14 November 2022	Version:	4			

1.1.	Product identifier				
	Trading name:	IRON CH	HLORID	E, SOLUTION	V
	Chemical name:	-			
	Product code:	FK-OT-X	(**		
1.2.	Relevant identified use	es of the	substa	nce or mixtu	re and uses advised against
	Uses:			For use with	n Fouchet-Van Gieson kit.
	Uses advised against:			Only the ide	entified uses are advised.
	Reason why uses advis	sed agai	nst:		t is intended for use only as an <i>in vitro</i> diagnostic vice and there is no reason to use it for other
1.3.	Details of the supplier of the safety data sheet				
	Supplier:	Supplier: BioG		Gnost Ltd.	
	Address:		Medju	djugorska 59, Zagreb	
	Telephone number:		+385	85 1 2409997	
	Telefax:		+385	885 1 2404039	
	e-mail of competent p	erson:	msds(ds@biognost.hr	
	National contact:		-		
1.4.	Emergency telephone	Emergency telephone numbers			
	National Protection an	nd Rescu	e Direct	torate:	112
	Medical information:				+385 1 2348 342
	Other information:				-

SECTIO	SECTION 2. Hazards identification						
2.1.	Classification of the substance or mixture						
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)						
	Hazard class and ca	Hazard class and category code: Hazard statement*:					
	Skin. Sens. 1		H317				
	Eye Irr. 2		H319				
2.1.2.	Additional information						
	-						
*For the	full text of H and EUH phrase	es see Section 16.					
2.2.	Label elements						
	Product identification: IRON CHLORIDE, SOLUTION						
	Identification number:	r: -					
	Authorisation number:	-					



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	Hazard pictograms:	GHS07
	Signal word:	Warning
	Hazard statement:	H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.
	Precautionary statement:	P280 Wear protective gloves/protective clothing/eye/protection/face protection. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
		tains no components considered to be either persistent, bioaccumulative sistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3. Co	SECTION 3. Composition/information on ingredients							
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)				
10025-77-1/ 600-047-2 / -	-	10 – 20 %	ferric chloride, hexahydrate	Acute Tox. 4; H302 Skin. Sens. 1; H317 Eye Irr. 2; H319				

SECTIO	SECTION 4. First aid measures				
4.1.	Description of first aid me	Description of first aid measures			
	General notes:	Move out of dangerous area. Show this safety data sheet to the doctor and first responders.			
	Following inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Get medical advice.			
	Following skin contact:	Wash off with soap and plenty of water. If irritation occurs and persists: Get medical advice.			



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	Following eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation occurs and persists: Get medical advice.
	Following ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water.
	Self-protection of the first aider	-
4.2.	Most important symptom	ns and 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.
	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 immedi	ate medical attention and special treatment needed
	Treat symptomatically.	

SECTIO	ECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Use dry chemical, CO ₂ , water spray (FOG) or foam.			
	Unsuitable extinguishing media:	Avoid solid water stream as it may scatter and spread fire.			
5.2.	Special hazards arising from the su	bstance or mixture			
	Hazardous by products of fire:	Use water spray to cool fire exposed container surfaces and to protect personnel. Thermal decomposition can produce carbon monoxide (highly toxic) and carbon dioxide (an asphyxiant at sufficient concentrations).			
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				
	9	ing due to increase in pressure. Remove sources of heat and nvironment 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	For non-emergency personnel			
	Protective equipment:	Use suitable personal protective equipment (see Section 8).			



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	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment.		
	Emergency procedures:	Mark the area using proper signs.		
6.1.2.	For emergency responders:			
	Use protective equipment; in equipment (see Section 8).	case of inadequate ventilation use adequate airways protective		
6.2.	Environmental precautions:	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 materials for co	Methods and materials for containment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.		
6.3.2.	Cleaning up:	After removing the product, use water to wash the work space and used materials.		
6.3.3.	Other information: No information available.			
6.4.	Reference to other sections			
	-			

SECTIO	SECTION 7. Handling and storage			
7.1.	Precautions for safe handling			
7.1.1.	Protection measures			
	Measures to prevent fire:		Use in well ventilated storage rooms. Refer to the manufacturer's recommendations.	
	Measures to prevent aerosol and dust generation	n:	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. Th	oroughly w	ash hands after work and before eating.	
7.2.	Conditions for safe storage, including any incon	npatibilities		
	Technical measures and storage conditions: well vent		ightly closed and upright set containers in a lated storage rooms at temperatures rom 15 to 25 °C.	
	Packaging materials: Manufac		urer's original packaging.	
	Requirements for storage rooms and vessels:	Keep awa	y from food and drink. Keep the containers osed.	



Environmental protection target

Advices for storage equipment:

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

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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

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Piok				proper ventuation.						
	Further information on storage conditions:				ons:	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 (see Section 9).				
7.3.	Specific en	d use(s)								
	Recommer	ndations	:			-				
	Industrial s	ector sp	ecific soluti	ons:		-				
					,					
SECTIO	N 8. EXPOSI	JRE COI	NTROLS / P	PERSON A	AL PRO	TECTIO	N			
8.1.	Control pa	rameter	S							
							•	osure limit		
Substance		CAS I	No	valu	es/shor	t ter	m values	В	iological limit values	
					p	pm		mg/m³		
-					-		-		-	
Substan	ice: -		ı	1			г			
EC No:	-		CAS No:	-						
DNEL										
		T		1	Indu	ustrial	Т			
Route o	f exposure:		te effect	Acute effect			Chronic effect		ect	Chronic effect
			local	systemic			local			systemic
Oral		-		-			-			-
Inhalatio	on	-		-			-			-
Dermal		-		-			-			-
Critical	physical para	meters:	solubility, fl	ammabil	ity, corr	osivity:		-		
		T			Cons	sumer	ı			
Route of exposure:			te effect		ute effe		Chronic effect		ect	Chronic effect
			local	S	ystemic			local		systemic
Oral		-		-			-			-
Inhalatio	on	-		-			-			-
Dermal		-	_	-			-			-
PNEC										

PNEC



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Fresh water			No information available		
Freshwate	er sediments		No information available		
Marine wa	ater		No information available		
Marine se	diments		No information available		
Food chai	n		No information available		
Microorga	anisms in sewage treatment		No information available		
Soil (agricultural)			No information available		
Air			No information available		
8.2.	Exposure controls				
8.2.1.	Appropriate engineering controls				
	Substance/mixture related measures		Jse personal protective equipment. Do not eat, drink or moke in the workspace.		
	Structural measures to prevent exposure:	١	No information available		
	Organisational measures to prevent exposure:		Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.		
8.2.2.	Personal protection equipment:				
8.2.2.1.	Eye and face protection:		Safety glasses tested and approved under appropriate tandards such as EN 166(EU).		
8.2.2.2.	Skin protection:	······································			
	Hand protection:		Handle with chemical resistant gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from t.		
	Other skin protection:	١	No specific protective equipment required.		
8.2.2.3.	Respiratory protection:		Jse when overexposure potential. Improper use of espirators is dangerous.		
8.2.2.4.	Thermal hazards:		No information available		
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Sec	ction 6		
	Structural measures to prevent exposure:	Use mo	odern equipment.		
	Organisational measures to prevent exposure:	Adapt t	the work process to the required working conditions of the ace.		



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Technical measures to prevent	See Section 6
exposure:	See Section 6

9.1.	Information on basic physical	and chemical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	yellowish	No information available
	Odour/odour threshold:	characteristic/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
	pH:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient noctanol/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
9.2.	Other information		
	_		

SECTIO	SECTION 10.: Stability and reactivity		
10.1.	Reactivity:	Not reactive under normal conditions.	
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).	



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10.3.	Possibility of hazardous reactions:	No information available.
10.4.	Conditions to avoid:	Contact with incompatible materials and temperature extremes.
10.5.	Incompatible materials:	Strong oxidizers.
10.6.	Hazardous decomposition products:	Does not decompose under normal conditions. During fire, thermal decomposition can produce carbon monoxide (highly toxic) and carbon dioxide (as asphyxiant as sufficient concentrations).

SECTION 11. Tox	icological informat	on						
11.1. Informat	ion on toxicological	effects						
Acute to	xicity:							
Route of exposure:	Method	Species		Effec Do: LD ₅₀ /L0 ATE _m	se C ₅₀ or	Exposure time		Results
Oral:	No information available		-	No information available		-		-
Dermal:	No information available		-	inform	No information available			-
Inhalation:	No information available		-	No information available		-		-
Specific	target organ toxicity	- single e	exposure (ST	OT-SE):				
	Sp	pecific effe	ects		Target organ			Note
Oral:	No information av	ailable			-		-	
Dermal:	No information av	ailable			-		_	
Inhalation:	No information av	ailable			-		-	
Aspiration	on hazard:		-					
Irritation	and corrosion							
	Exposu	re time	Specie	s	Evaluati	on M	lethod	Note
Skin corrosion/irri	no infation: No infavailable	ormation	rabbit	-		-		mild skin irritation



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Serious irritation to eyes:		No information available								
Sensitizat	ion									
Skin sensitization:	No inf	ormation available								
Respiratory sensitization:	No inf	ormation available	€.							
Symptom	s related to	o physical, chemica	al and toxicologic	al properties						
Oral exposure:		known specific sy		ai properties						
Dermal exposure:		o known specific symptoms. May cause skin irritation.								
Inhalation exposure	known specific sy	mptoms.								

Dermal exposure:	No known specific symptoms. May cause skin irritation.
Inhalation exposure:	No known specific symptoms.
Eye exposure:	No known specific symptoms.

ated dose toxicity (subacute, subch	ronic, chronic)			
Dose	Exposure time	Species	Method	Evaluation	Note
No information available	No	No	No	No	No
	information	information	information	information	information
	available	available	available	available	available
No information available	No	No	No	No	No
	information	information	information	information	information
	available	available	available	available	available
No information available	No	No	No	No	No
	information	information	information	information	information
	available	available	available	available	available
No information available	No	No	No	No	No
	information	information	information	information	information
	available	available	available	available	available
No information available	No	No	No	No	No
	information	information	information	information	information
	available	available	available	available	available
No information available	No	No	No	No	No
	information	information	information	information	information
	available	available	available	available	available
No information available	No	No	No	No	No
	information	information	information	information	information
	available	available	available	available	available
	Dose No information available No information available	Dose Exposure time No information available No information available	No information available No information information available No information information information available No information infor	Dose Exposure time Species Method	Dose Exposure time Species Method Evaluation



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inhalation available		
chronic No information information information information information information information		
available available available available available available	No information available	
Consider to another the state of the state o		
Specific target organ toxicity - repeated exposure (STOT-RE): Specific effects Target organ Note	 e	
Subacute oral No information available No information available No information available		
Subacute dermal No information available No information available No information available	ation	
Subacute inhalation No information available No information available No information available	No information	
Subchronic oral 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	
Subchronic inhalation No information available No information available No information available	ition	
Chronic oral No information available No information available No information available	ation	
Chronic dermal No information available No information available No information available	ation	
Chronic inhalation No information available No information available No information available	ation	
CMR effects (carcinogenicity, mutagenicity, reproductive toxicity) Based on available data, the classification criteria are	e not	
Carcinogenicity: met.		
Mutagenicity <i>in-vitro</i> : Based on available data, the classification criteria are met.	e not	
Genotoxicity: Based on available data, the classification criteria are met.	e not	
Mutagenicity <i>in-vivo</i> : Based on available data, the classification criteria are met.		
Germ cell mutagenicity: Based on available data, the classification criteria are met.		
Reproductive toxicity: Based on available data, the classification criteria are met.	e not	



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	Summary of evaluation of the CMR properties: No information available
11.2.	Information on other hazards:
11.2.1.	Endocrine disrupting properties:
	No known endocrine disrupting properties that affect human health.
11.2.2.	Other information:
	-

SECTION 12. Ecological information										
12.1. Toxicity										
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note				
Fish	LC ₅₀	96 hours	-	-	-	-				
Crustacea:	EC ₅₀	48 hours	-	-	-	-				
Algae/aquatic plants:	IC ₅₀	72 hours	-	-	-	-				
Other organisms	-	-	-	-	-	-				
Chronic (long-term) toxicity	Doza	Exposure time	Species	Method	Evaluation	Note				
Fish	LC ₅₀	96 hours	-	-	-	-				
Crustacea:	EC ₅₀	48 hours	-	-	-	-				
Algae/aquatic plants:	IC ₅₀	72 hours	-	-	-	-				
Other organisms	-	-	-	-	-	-				

Ab	iotic degradation			
	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	-



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% Degradat			Time (Method			Evaluation			Note	
No informati		_	formati	on	No information			o information		-		
available	lable available			available		av	ailable					
12.3. Bio	accum	ulativ	e poter	ntial								
Oct	tanol-w	vater	partitio	n coeffic	ient (log	Kow)						
Value	Con	centr	ration	рН	°C	Method	k	Evaluat	ion		Note	
No No information available		-	ormation -		-	No informat available	ion	No informa available	tion	-		
Bio	oconcei	ntrati	on Fact	or (BCF)								
Value			Spec	ies	Method			Evaluation			Note	
No informati available		No information available		No information available			No information available		-			
Ch	ronic e	coto	xicity						*		**	
Valu	ıe		Dose		oosure ime	Species		Method	Ev	aluation	Note	е
				No		No		No	No			
Chronic toxic	city on	fish	LC ₅₀	infori availa	mation	information available		information available		rmation lable	-	
				No	abie	No		No	No	iabie		
Chronic toxic	-		EC ₅₀		mation	information		information		rmation	-	
crustacea (Daphnia)		availa	able	available		available		lable				
	bility in											
Kno	own or	pred	licted di	stributio	n in envii	ronmental con	npart	tments:				
		······										
	face te	ensior	n: °C		Concer	tration		Method			Noto	
	Value				Concen	uauon		Metriod			Note	



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		matio		No information available		No informa available	ation	-		
	Adso	orptio	n / desorption							
Transpoi	rt	-	D coefficient nry's constant	log Kow	Ev	aporation rate	Metho	od	Note	
Soil-wate		No in availa	formation ble	No information available		ormation ilable	No informat available	ion	-	
Water-ai		No in availa	formation ble	No information available		ormation ilable	No informat available	ion	-	
Soil-air		No in availa	formation ble	No information available		ormation ilable	No informat available	ion	-	
12.5.	Resu	lts of	PBT and vPvB as	sessment						
				ntains no componersistent and very bi			•			e
12.6.	Endo	ocrino	disrupting prop	ortios						
12.0.				es not contain com	none	ents conside	ered to have e	ndocrin	e disrupting	
	prop	erties	according to RE	ACH Article 57(f) o U) 2018/605 at leve	r Cor	nmission D	elegated regul			•
12.7.	Othe	er adve	erse effects							
	No ir	nform	ation available							
			sal consideration	ons						
13.1.	Wast	e trea	tment methods							
42.4.4	Б	1 1/	D I : I:							
13.1.1.			Packaging dispo		horiza	nd by the M	linistry of Envir	onmon	tal and Naturo	
		tectio	•	e legal person auth	IONZE	ed by the iv	illistry Of Erivir	onmen	tai and Nature	
13.1.2.	Wa	ste co	des/waste desig	nations according	to La	aw:				



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	Disposal must be made acco	rding to official regulations.
	:	
13.1.3.	Waste treatment – relevant i	nformation:
	No information available	
13.1.4.	Sewage disposal – relevant ir	nformation:
	Waste must not be disposed	of into the sewage system.
	!	
13.1.5.	Other disposal recommenda	tions:
	authorized by the ministry in	ct's remains into the sewage system. Submit the remains to the collectors charge. Do not dispose of the packaging into the sewage system. collectors authorized by the ministry in charge.
13.1.6.	Relevant Community provision	ons:
	-	
SECTION	14. Transport information	
	Transporting/shipment by roa	d (ADR)
UN numb	per:	Not subject to transport regulations
UN prope	er shipping name:	-
Transport	t hazard class(es):	-
Packing g	group:	-
Environm	ental hazards:	-
Special p	recautions for user:	-
	Transporting/shipment by rail	(RID)
UN numb	oer:	Not subject to transport regulations
UN prope	er shipping name:	-
Transport	t hazard class(es):	-
Packing group:		-
Environmental hazards:		-
Special precautions for user:		_
	Transporting/shipment by inla	and waterways (ADN)
UN number:		Not subject to transport regulations
UN prope	er shipping name:	-
Transport	t hazard class(es):	-
Packing g	group:	-
Environm	ental hazards:	-



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Transporting/shipment by sea	(IMDG)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:	-
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:	-
Environmental hazards:	-
Special precautions for user:	-
Further information: -	

SECTIO	TION 15. Regulatory information			
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture			
	EU regulations			
	Authorisation and/or restrictions on use			
	Authorisations: -			
	Restrictions: -			



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		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
	Other EU regulations:	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 guideline)	1999/13/EC about limitation of emissions of volatile organic compounds (VOC-
	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 assessn	nent
	-	

SECTIO	N 16. Other information	
16.1.	Indication of changes:	-
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:	Manufacturer's MSDS file.



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Trade name:		IRON CHLORIDE, SOLUTION				
Product code:	FK-OT-X**	Date of compilation:	14 November 2022	Version:	4	

16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)				
Classifi	cation		Classification procedure		
-			-		
16.5.	Rele	vant H statements (nu	mber and full text)		
	Н:	302 317 319	Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye irritation.		
16.6.	Trair	ning advice:	-		
16.7.	Furtl	ner information:	"X" in the product code marks different volumes (different packaging 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
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