

FOUCHET-VAN GIESON KIT

The kit contains:

Fuchsin Acid Van Gieson reagent Iron chloride, solution Trichloroacetic acid, solution



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Trading name:	FUCHSIN ACID VAN GIESON REAGENT				
Product code:	FAG-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

SECTI	ION 1: Identification of	the substance	e/mixture	and of the company/undertaking			
1.1	Product identifier						
	Trading name:	FUCHSIN A	FUCHSIN ACID VAN GIESON REAGENT				
	Chemical name:	-	-				
	Catalogue number:	FAG-OT-X*	*				
1.2	Relevant identified us	es of the subs	tance or n	nixture and uses advised against			
	Uses:		For use	with special staining kits.			
	Uses advised against:		Only the	identified uses are advised.			
	Reason why uses advised against:		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 the safety data sheet						
	Supplier:		BioGnost Ltd.				
	Address:		Medjugorska 59, Zagreb				
	Telephone number:		+385 1 2409997				
	Telefax.:		+385 1 2404039				
	e-mail of competent p	person:	msds@biognost.hr				
	National contact:		-				
1.4	Emergency telephone	number					
	National Protection a	nd Rescue Dire	ectorate:	112			
	Medical information:			+385 1 2348 342			
	Other information:			-			

SECTIO	ON 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	tegory code:	Hazard statements*:		
	Not identified as hazardous substance				
2.1.2.	Additional information				
	-				
*For fu	ıll text of Hazard- and EU Haza	ard-statements: see S	SECTION 16		
2.2	Label elements				
	Product identification:	FUCHSIN ACID	VAN GIESON REAGENT		
	Identification number:	-			
	Authorization number:	-			
	Hazard pictograms:	-			



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	Signal word:	-		
	Hazard statements:	-		
	Precautionary statements:	-		
	Supplemetal hazard information (EU):	-		
2.3	Other hazards			
	Endocrine Disrupting Propert	ies:		
	No known endocrine disrupting properties			
	Results of PBT and vPvB asse PBT or a vPvB.	ssment : According to the results of its assessment, this substance is not a		

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)	
88-89-1/ 201-865-9/ 609-009-00-X	-	< 2 %	picric acid	Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331	

4.1	Description of first aid measures		
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.	
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.	
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.	
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.	
	Following ingestion:	Rinse the mouth thoroughly with 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.	
	Self-protection of the first aider:	-	



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	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 immediate medical attention and special treatment needed			
	-			

SECTIO	SECTION 5. Firefighting measures				
5.1	Extinguishing media	Extinguishing media			
	Suitable extinguishing media: water spray,	dry powder, CO ₂ or alcohol resistant foam			
	Unsuitable extinguishing media: Water with f	ull jet			
5.2	Special hazards arising from the substance or m	Special hazards arising from the substance or mixture			
	Hazardous combustion products: no informati	on available			
5.3	Advice for firefighters				
	Use a self-contained open-circuit compressed a	r breathing apparatus and fireproof clothing.			
5.4	Additional information				
	Cool endangered receptacles with water spray. Contaminate the environment with extinguishing	Collect contaminated fire fighting water separately. Do not g 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. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Use protective equipment; in ca (see Section 8).	se of inadequate ventilation use adequate airways protective equipment			
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 conta	inment and cleaning up			



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6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.				
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. 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:	Secure proper ventilation. Do not use incompatible materials (see Section 10).				
6.4	Reference to other sections					
	See Section 7 for information on safe handling.					
	See Section 8 for information	See Section 8 for information on personal protection equipment.				
	See Section 13 for disposal in	formation.				

SECTIO	ON 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. Ke away from sources of ignition and heat. not use tools that cause sparks. Do not smoke.				
	Measures to prevent aerosol and dust generation	Secure proper ventilation.				
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.			
	Other measures:		Protect against electrostatic charges.			
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. The	oroughly was	sh hands after work and before eating.			
7.2	Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions:	well ventil	phtly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.			
	Packaging materials:	Manufacturer's original packaging.				
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.				
	Advices for storage equipment:	must be re	e must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper .			



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	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 (see Section 10).
7.3	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

8.1	Control pa	rameters	-						
	•				О	ccupa	ational e	exposure limit	
Substance		CA			•		term values	Biological limit values	
						рр	m	mg/m³	-
-				-		-			-
					•			<u>.</u>	
Substa	nce name:	-							
EC No: -		CAS No):	-					
DNEL									
						Indus	strial		
Route of		Acı	ıte	Acute				Chronic	Chronic
exposure:		effect	local	effect systemic		nic		effect local	effect systemic
Oral		-		-			-		-
Inhalat	ion	-		-			-		-
Derma		-		-		-			-
Critical	physical par	ameters: s	olubility,	flamm	nability, c	corros	sivity:	-	
					(Consi	umer		
Route	of	Ad	cute		Acute			Chronic	Chronic
exposi	ure:	effec	t local	effect systemic		mic		effect local	effect systemic
Oral		-		-			-		-
Inhalat	ion	-		-			-		-
Derma	l	-		-			-		-
PNEC									
Enviror	nmental prot	ection tar	get			PI	NEC		
Fresh v	vater					no	o inform	ation available	
Freshw	ater sedimer	nts				no	no information available		
Marine	water					no	no information available		
Marine	sediments					no	no information available		



Food chain

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

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no information available

Microorga	anisms in sewage treatment		no information available		
Soil (agric	cultural)		no information available		
Air			no information available		
8.2	Exposure controls				
8.2.1.	Appropriate engineering controls				
	Substance/mixture related measur prevent exposure during identified		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to prevent exposure:		In accordance with Section 7.		
	Organisational measures to prevent exposure: Technical measures to prevent exposure:		Organization of work in order to reduce other worker's influence during work process.		
			Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.		
8.2.2.	Personal protection equipment	nt			
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.			
8.2.2.2.	Skin protection				
	Hand protection:		otective gloves have to satisfy the specification of tion (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min		
	Other skin protection:	footwe entire imperr	everyday work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of meable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.		
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) according to EN 14387) used when concentration levels exceed GN			
8.2.2.4.	Thermal hazards:		ormation available		
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Se	ction 6		



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Structural measures to prevent exposure:	Use modern equipment.
Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
Technical measures to prevent exposure:	See Section 6

In	formation on basic physical and	chemical properties	
		Value	Method
Pl	nysical state:	liquid	No information available
C	olour:	red	No information available
0	dour/odour threshold:	no information available/no information available	No information available
Μ	lelting point / freezing point:	No information available	No information available
	oiling point or initial boiling oint and boiling range:	No information available	No information available
FI	ammability:	No information available	No information available
Lo	over and upper explosion limit:	No information available	No information available
Fl	ash point:	No information available	No information available
Α	uto-ignition temperature:	No information available	No information available
D	Decomposition temperature:	No information available	No information available
pl	H:	No information available	No information available
Ki	nematic viscosity:	No information available	No information available
So	olubility:	No information available	No information available
	artition coefficient n- ctanol/water (log value):	No information available	No information available
V	apour pressure:	No information available	No information available
D	ensity and/or relative density:	No information available	No information available
Re	elative vapour density:	No information available	No information available
Pa	article characteristics:	No information available	No information available
0	ther information		

SECTION 10. Stability and reactivity	
10.1 Reactivity:	See subsections 10.3 through 10.5.



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10.2	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).
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

11.1 Inform	ation on haz	zard classes	as defined in	n Regula	ation (EC) No 12	272/20	800		
Acute 1	toxicity:								
Route of exposure:	М	ethod	Species	Dos	e LD ₅₀ /LC ₅₀ or ATE _{mix}	E	Exposure time		Results
Oral:	No inf availat	ormation ole	-	No information available			-		-
Dermal:	No inf availat	ormation ble	-	No information available			_		-
Inhalation:	No inf availat	ormation ble	-		No information - available		-		-
Specifi	c target org	an toxicity –	single expo	sure (ST	OT SE):				
		Specific	effects		Target organ				Note
Oral:	No inf	ormation av	ailable		No information	n availa	able	-	
Dermal:	No inf	ormation av	ailable		No information	n availa	able	-	
Inhalation:	No inf	ormation av	ailable		No information available			-	
Aspirat	tion hazard:		No	o inform	ation available.				
			3						
Irritatio	on and corro	sion							
		Exposure t	ime	Specie	es Evalua	tion	Method		Note
Skin corrosion/irritat	ion:		-		-		-	-	
Serious eye damage/irritatio	on -		-		-		-	-	
Sensiti	zation								
Skin sensitizatio	n:	No inforr	nation availa	able.					
Respiratory sens	sitization:	No inforr	nation availa	able					



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I			ll if swallowed.							
Dermal exposure	:	Harmful if ab	sorbed throug	orbed through skin. May cause skin irritation.						
Inhalation expos	ure:	Harmful if inl	naled. May cau	ıse respiratory t	ract irritation.					
Eye exposure:		May cause ey	e irritation.							
Repeate	ed dos	e toxicity (sub	acute, subchro	onic, chronic)						
		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 avai	information lable	No information available	No information available	No information available	No information available	_			
Subchronic inhalation		information lable	No information available	No information available	No information available	No information available	-			
Chronic oral		information lable	No information available	No information available	No information available	No information available	_			
Chronic dermal		information lable	No information available	No information available	No information available	No information available	-			
Chronic inhalation		information lable	No information available	No information available	No information available	No information available	-			



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Subacute o	ral	No information available			No information available	-			
Subacute d	lermal	No information available			No information available	-			
Subacute ir	nhalation	No information available			-				
Subchronic	oral	No information available			No information available	-			
Subchronic	onic dermal No information available				No information available	-			
Subchronic	inhalation	No information available			No information available	-			
Chronic ora	al	No information available			No information available	-			
Chronic de	rmal	No information available			No information available	-			
Chronic inh	nalation	No information available			No information available	-			
CN	MR effects (c	arcinogenicity; mutagenicit	y; re	productive t	oxicity)				
Ca	Carcinogenicity:			sed on availa	ble data, the classification o	criteria are not met.			
М	Mutagenicity in vitro:			Based on available data, the classification criteria are not met.					
Ge	Genotoxicity:			sed on availa	ble data, the classification o	criteria are not met.			
М	Mutagenicity in vivo:			sed on availa	ble data, the classification o	criteria are not met.			
Ge	erm cell muta	agenicity:	Bas	sed on availa	ble data, the classification o	criteria are not met.			
Re	eproductive t	oxicity:	Bas	sed on availa	ble data, the classification o	criteria are not met.			
	ummary of operties:	evaluation of the CI	MR	Based on a met.	available data, the classific	ation criteria are not			
11.2 In	formation or	other hazards:							
11.2.1. En	ndocrine disr	upting properties:							
co dis Ar res Re	The substance/mixture does not concomponents considered to have endocdisrupting properties according to REA Article 57(f) or Commission Delegategulation (EU) 2017/2100 or Commiss Regulation (EU) 2018/605 at levels of 0.19 higher.								
11.2.2. Ot	ther informat	tions:							

SECTION 12. Ecological information									
12.1 Toxicity									
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note			



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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	· · · · · · · · · · · · · · · · · · ·		No information available	No information available	-	
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	available		No information available	-		
Algae/aquatic plants	uatic plants IC ₅₀ 72 hours No information available No information available No information available		information	-		
Other organisms	_	_	_	_	_	_

12.2 Persistence and degradability

Abiotic 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	-

О:	-	-1	_			-1	_		O	
к	\sim	$\boldsymbol{\alpha}$	Δ	\mathbf{n}	\mathbf{c}	$\boldsymbol{\alpha}$	2	TΙ	\sim	n

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



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Produc	ct code:	FAG	G-OT-X**		Date	of co	mpilati	on: 21 De	ec 2022	١	Version:	6
12.2	Б.	1										
12.3			potential		(log Kow	`						
Valu		water p oncenti	partition co	рН	°C		ethod	Evalu	ation		Note	
- vaiu	-	oncenti		•		-	etriou	- Evalu	ation		Note	
								_				
	<u>_</u>											
	!			<u> </u>								
	Bioconce	ntratio	n factor (B	CF)								
V	'alue		Specie	S	١	Method	d	Evaluati	on		Note	
	rmation	No		ormation	No info		on	No informati	on	_		
availabl	le	avail	lable		availab	le		available				
	Chronic	ecotoxi	city									
	I .	COTOXI	City	Fxr	osure							
	Value		Dose	_ : .	ime	Sp	ecies	Method	Evalu	ation	Note	
				No		No		No	No			
Chronic	toxicity o	n fish	LC ₅₀	infor avail	mation	infor availa	mation	information available	inform availab		_	
				No	abic	No	abic	No	No			
	toxicity o ea (<i>Daphn</i>		EC ₅₀		mation	1	mation	information	inform	ation	_	
Clustact	са (Баріііі			avail	able	availa	able	available	availab	le		
10.1												
12.4	Mobility											
		······	cted distrik available	oution in (environm	nental (compart	ments:				
	Surface t											
					oncentra	ation		Method			Note	
							**************************************				INOLE	
	informat	ion i	nformatio	n i		tion			-			
	available	ā	available	avo	anable		avallat	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
		<u></u>										
		ion i	°C No nformatio available	n No	oncentra informa ailable		No inf availab	Method ormation ble	-		Note	



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	Adsorption / desorption				
Transport	A/D coefficient t Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-wate	No information available	No information available	No information available	No information available	-
Water-air	No information available	No information available	No information available	No information available	-
Soil-air	No information available	No information available	No information available	No information available	-
	Results of PBT and vPvB asse The substance/mixture does		onents considered to	n have endocrine d	isrunting properties
3	according to REACH Article 5 Regulation (EU) 2018/605 at	7(f) or Commission	n Delegated regulat		
12.6. I	Endocrine disrupting propert	ies			
(The substance/mixture does according to REACH Article 5 Regulation (EU) 2018/605 at	7(f) or Commission	n Delegated regulat		
12.7	Other adverse effects				
	No further relevant informati	on available.			
SECTION	I 13. Disposal consideration	S			
13.1	Waste treatment methods				
13.1.1.	Product/Packaging disposa	l:			
13.1.1.	Product/Packaging disposal Submit for disposal to the I Protection.		rized by the Ministr	y of Environmental	and Nature
13.1.1.	Submit for disposal to the I	egal person autho		y of Environmental	and Nature
	Submit for disposal to the I Protection.	egal person autho	D Law:		
	Submit for disposal to the I Protection. Waste codes/waste designated to the I Protection.	egal person autho ations according to ontains residual ha	D Law:		
13.1.2.	Submit for disposal to the I Protection. Waste codes/waste designated to the I Protection.	egal person autho ations according to ontains residual ha	D Law:		



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Waste must not be disposed	of into the sewage system.
Other disposal recommendat	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. Submit ors authorized by the ministry in charge.
Relevant Community provision	ons:
Disposal must be made acco	rding to official regulations.
I 14 TRANSPORT INFORMAT	ION
Transporting/shipment by roac	(ADR)
oer:	Not subject to transport regulations
er shipping name:	-
t hazard class(es):	-
group:	-
entally hazardous:	-
recautions for user:	-
Transporting/shipment by rail ((RID)
per:	Not subject to transport regulations
er shipping name:	-
t hazard class(es):	-
group:	-
entally hazardous:	-
recautions for user:	-
Inland waterway transport (AD	N)
per:	Not subject to transport regulations
er shipping name:	-
t hazard class(es):	-
group:	-
nentally hazardous:	-
recautions for user:	-
Transporting/shipment by sea	(IMDG)
per:	Not subject to transport regulations
er shipping name:	-
t hazard class(es):	-
group:	-
	Other disposal recommendated Do not dispose of the product authorized by the ministry in the packaging to the collector Relevant Community provision Disposal must be made accordant Transporting/shipment by road per: Ber shipping name: It hazard class(es): In group: Ber shipping name: It hazard class(es): Ber shipping name: Inland waterway transport (AD per: Ber shipping name: It hazard class(es): Ber shipping name: It hazard class(es):



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Environmentally hazardous:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (IC.	AO-TI/IATA-DGR)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

.1 Safety, health and envi	onmental regulations/legislation specific for the substance or mixture
EU regulations	
Authorization and/or re	estrictions 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);



SAFETY DATA SHEET

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

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Trading name:		FUCHSIN ACID VAN GIE	SON REAGENT		
Product code:	FAG-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

	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	

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:	-
16.4.	Classification and procedure u 1272/2008 (CLP)	sed to derive the classification for mixture according to Regulation (EC)
Classific	cation	Classification procedure
_		-
16.5.	Relevant H statements (number	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
-



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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 CI	HLORIC	E, SOLUTIC	DN
	Chemical name:	-			
	Product code:	FK-OT->	(**		
1.2.	Relevant identified uses of the substance or m			nce or mixt	cure and uses advised against
	Uses:			For use wi	th Fouchet-Van Gieson kit.
	Uses advised against:			Only the id	dentified uses are advised.
	Reason why uses advised against:		nst:	The product is intended for use only as an <i>in vitro</i> diagnostic medical device and there is no reason to use it for other purposes.	
1.3.	Details of the supplier of the safety data sheet				
	Supplier: Biod		BioGr	Gnost Ltd.	
	Address:		Medji	1edjugorska 59, Zagreb	
	Telephone number:		+385	-385 1 2409997	
	Telefax:		+385	385 1 2404039	
	e-mail of competent	person:	<u>msds</u>	sds@biognost.hr	
	National contact:		-		
1.4.	Emergency telephone	e number	·s		
	National Protection a	ınd Rescu	ie Direc	torate:	112
	Medical information:				+385 1 2348 342
	Other information:				-

SECTIO	FION 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 category code: Hazard statement*:						
	Skin. Sens. 1		H317				
	Eye Irr. 2		H319				
2.1.2.	Additional information						
	-						
*For the	e full text of H and EUH phras	ses see Section 16					
2.2.	Label elements						
	Product identification:	IRON CHLORI	DE, SOLUTION				
	Identification number:	-					
	Authorisation number:	-					



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

	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	
		ting properties. tains no components considered to be either persistent, bioaccumulative istent 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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Trade name:		IRON CHLORIDE, SOLUTION						
Product code:	FK-OT-X**	Date of compilation:	14 November 2022	Version:	4			

	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 immedia	ate medical attention and special treatment needed		
	Treat symptomatically.			

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

	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 (see Section 8).	case of inadequate ventilation use adequate airways protective equipment		
6.2.	Environmental precautions:			
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact Nation Protection and Rescue Directorate (NPRD) on 112.			
6.3.	Methods and materials for co	ontainment 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	N 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	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. The	noroughly w	ash hands after work and before eating.
7.2.	Conditions for safe storage, including any incon	npatibilities	
	Technical measures and storage conditions:	well venti	ightly closed and upright set containers in a lated storage rooms at temperatures rom 15 to 25 °C.
	Packaging materials:	Manufact	urer's original packaging.
	Requirements for storage rooms and vessels:	Keep awa	y from food and drink. Keep the containers osed.



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

	Advices for storage	equipment:		must be resistant to	made of hard material; floors chemicals. There must be no ads into sewage system. Secure
	Further information	n on storage conditic	ons:	and do not use emp	used material in the storage room ty containers for storing other ore with incompatible materials
7.3.	Specific end use(s)				
	Recommendations			-	
	Industrial sector sp	ecific solutions:		_	
SECTIO	N 8. EXPOSURE CON	NTROLS / PERSONA	L PROT	ECTION	
8.1.	Control parameters	S			
	Substance	CAS No		ational exposure limit s/short term values	Biological limit values

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION								
8.1. Contro	ol pa	rameter	s					
Substance		CAS No		Occupational values/short	exposure lir t term value:		Biological limit values	
					ppm	mg/m³		
-			1		-	-		-
Substance:	Substance: -							
EC No:	-		CAS No:	_				
DNEL								
					Industrial			
Route of exposure:			te effect local	Acute effect systemic		Chronic effect local		Chronic effect systemic
Oral		-		-		-		-
Inhalation		-		-		-		-
Dermal		-		-		-		-
Critical physical	para	meters:	solubility, fla	ammabil	ity, corrosivity:	-		
					Consumer	·		
Route of exposu	ure:		te effect local		ute effect ystemic	Chronic		Chronic effect systemic
Oral		-		-		-		-
Inhalation		-		-		-		-
Dermal		-		-		-		-
PNEC								
Environmental p	orote	ction ta	rget		PNEC			



Fresh water

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

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

No information available

Freshwater sediments			No information available			
Marine w	rater		No information available			
Marine se	ediments		No information available			
Food cha	in		No information available			
Microorg	anisms in sewage treatment		No information available			
Soil (agrid	cultural)		No information available			
Air			No information available			
8.2.	Exposure controls					
8.2.1.	Appropriate engineering controls	5				
	Substance/mixture related measure to prevent exposure during ident uses:	ified L	Jse personal protective equipment. Do not eat, drink or moke in the workspace.			
	exposure: Organisational measures to prevent		No information available			
			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:		afety 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 the standard EN 374 derived f			
	Other skin protection:	١	No specific protective equipment required.			
8.2.2.3.	Respiratory protection:		Use when overexposure potential. Improper use of espirators is dangerous.			
8.2.2.4.	Thermal hazards:	N	lo 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 workpla	the work process to the required working conditions of the ace.			



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

Technical measures to prevent	See Section 6
exposure:	See Seelion 0

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

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).

11.1. Inf	ormation on to	xicological effe	cts						
Ac	ute toxicity:								
Route of exposure:	M	ethod	Sp	ecies	Effecti Dose LD ₅₀ /LC ATE _{mix}	e ₅₀ or	Exposu time		Results
Oral:	_	formation ailable		-	No informa availal		_		_
Dermal:		formation ailable		-	No informa availal		-		-
Inhalation:		formation ailable		-	No information available		-		_
Sp	ecific target or	gan toxicity - si		•	OT-SE):	T			NI-4-
Oral:	No infe	Speci ormation availal	fic effe	cts		Target organ			Note
Dermal:		ormation availal				_		-	
Inhalation:		ormation availal						-	
innaiation:	INO INTO	imation avallal	Jie			-		-	
As	piration hazard	d:	-	-					
Irr	itation and cor	rosion							
		Exposure ti	me	Specie	s E	valuatio	on N	Method	Note
	on/irritation:	No inform	ation	rabbit					mild skin



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No

No

information

information

available

available

No

No

information

information

available

available

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

Trade name:		IRON CHLORIDE, SOLUTION									
Product code:	FK-O	Г-Х**	Date of	compilation:	14 November	2022	Version:	4			
Serious irritation	n to eyes:	No availa	information able	-	-	-	-				
Sensit	ization										
Skin sensitizatio	n: N	lo inform	ation available								
Respiratory sensitization:	N	lo inform	nation available	•							
Sympt	toms relat	ed to ph	ysical, chemica	l, and toxicologi	cal properties						
Oral exposure:		No kno	own specific syr	mptoms.							
Dermal exposur	e:	No kno	known specific symptoms. May cause skin irritation.								
Inhalation expos	sure:	No kno	own specific syr	mptoms.							
Eye exposure:		No kno	own specific syr	mptoms.							
1											
Repea	ted dose	toxicity (subacute, subc	hronic, chronic)		-					
	Do	se	Exposure time	Species	Method	Evaluation	Note				
Subacute oral	No info		No information available	No information available	No information available	No information available	No informat available				
Subacute dermal	No info		No information available	No information available	No information available	No information available	No informat available				
Subacute inhalation	No info		No information available	No information available	No information available	No information available	No informat available				
Subchronic oral	No info		No information available	No information available	No information available	No information available	No informat available				
Subchronic dermal	No info		No information available	No information available	No information available	No information available	No informat available				

No

No

information

information

available

available

No

No

information

information

available

available

No information

No information

available

available

Subchronic

Chronic oral

inhalation

No

No

information

information

available

available



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

Chronic dermal	No information available	No information available	No informatio available	n	No information available	No informatio available	No information available		
Chronic inhalation	No information available	No information available	No informatio available	n	No information available	No informatio available	No information available		
Spe	ecific target organ to	oxicity - repeated	d exposure (S	TOT	-RF)·				
- P		Specific ef			Target org	an	Note		
Subacute ora	1 1	No information a		No	information av		No information available		
Subacute der	rmal 1	No information a	vailable	No	information ava	ailable	No information available		
Subacute inh	alation [No information a	vailable	No	information ava	ailable	No information available		
Subchronic o	ral [No information a	vailable	No	information ava	ailable	No information available		
Subchronic d	ermal 1	No information a	lo information available			ailable	No information available		
Subchronic ir	nhalation [No information a	vailable	No information available			No information available		
Chronic oral	1	No information a	vailable	No information available			No information available		
Chronic derm	nal [No information a	vailable	No information available			No information available		
Chronic inhal	ation 1	No information a	vailable	No	information ava	ailable	No information available		
CM	IR effects (carcinoge	nıcity, mutageni			-	l- 'C' - '			
Car	cinogenicity:		Based of met.	on av	<i>r</i> anabie data, th	e ciassificatio	on criteria are not		
Mu	itagenicity in-vitro:			on av	vailable data, th	e classificatio	on criteria are not		
Gei	notoxicity:		met.				on criteria are not		
Mu	itagenicity <i>in-vivo</i> :		met.				on criteria are not		
Gei	rm cell mutagenicity	•	met.				on criteria are not		
Rep	oroductive toxicity:		Based of met.	on av	ailable data, th	e classificatio	on criteria are not		



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

	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 informations:
	-

SECTION 12. Ecologic	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	-	-	-	-	-	-						

12.2. Persistence and degradability Abiotic degradation Degradation half-lives Method **Evaluation** Note Marine No information No information available No information available available water No information available No information No information available Fresh water available No information available No information available No information Air available No information available No information available No information Soil available Biodegradation



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Product code: FK-OT-X** Date of compilation: 14 November 2022 Version: 4 % Degradation Time (days) Method Evaluation Note No information available No information available Note 12.3. Bioaccumulative potential Octanol-water partition coefficient (log Kow) Value Concentration pH °C Method Evaluation Note No No information available Note information information information information information information available	Trade na	ame:							IRON C	HLOR	IDE,	, SOLUTION	1			
No information available No information No information No information No information No information available Avail	Product	code:		FK-C)T-X**		Da	te of	compilat	ion:	14	November	2022		Version:	4
No information available No information No information No information No information No information available Avail							•							:		
Available Avai	% Degi	radatic	on		Time (days)			Method			Evaluation			Note	
12.3. Bioaccumulative potential Octanol-water partition coefficient (log Kow)			n	_		ion				n				-		
Value Dose Exposure time Species Method Evaluation Note	available	е		availa	able			avail	able		avai	lable				
Value																
Value																
Value																
Value Concentration No information available Phase of the procession of the p	12.3.	Bioa	ccum	nulativ	e poter	ntial										
No information available No information information available No info		Octa	nol-v	water	partitio	n coef	ficien	t (log	Kow)							
information available Bioconcentration Factor (BCF)	Valu	e	Cor	ncentr	ation	рН		°C	Мє	ethod		Evaluat	tion		Note	
Bioconcentration Factor (BCF) Value Species Method Evaluation Note No information available available Chronic ecotoxicity Value Dose Exposure time Species Method Evaluation available					ation	-		-			n		ition	-		
Bioconcentration Factor (BCF) Value Species Method Evaluation Note No information available No information available Chronic ecotoxicity Value Dose Exposure time Species Method Evaluation Note Chronic toxicity on fish LC50 information available availa			avail	able					availabl	е		available				
Value Species Method Evaluation Note No information available No information available No information available - Chronic ecotoxicity Value Dose Exposure time Species Method Evaluation Note Chronic toxicity on fish LC50 Information available available information available available available available available available available available No 12.4. Mobility in soil Motor information available Note No	availabi	е														
Value Species Method Evaluation Note No information available No information available No information available - Chronic ecotoxicity Value Dose Exposure time Species Method Evaluation Note Chronic toxicity on fish LC50 Information available available information available available available available available available available available No 12.4. Mobility in soil Motor information available Note No																
Value Species Method Evaluation Note No information available No information available No information available - Chronic ecotoxicity Value Dose Exposure time Species Method Evaluation Note Chronic toxicity on fish LC50 Information available available information available available available available available available available available No 12.4. Mobility in soil Motor information available Note No																
Value Species Method Evaluation Note No information available No information available No information available - Chronic ecotoxicity Value Dose Exposure time Species Method Evaluation Note Chronic toxicity on fish LC50 Information available available information available available available available available available available available No 12.4. Mobility in soil Motor information available Note No																
No information available No information available No information available No information available		Bioc	once	ntrati	on Fact	or (BCI	-)				i					
available available available available available available															Note	
Chronic ecotoxicity Value Dose Exposure time Species Method Evaluation Note No Information available Available Chronic toxicity on crustacea (Daphnia) Chronic toxicity in soil Chronic toxicity on crustacea (Daphnia) Chronic t			n			ion				n			n	_		
Value Dose Exposure time No No Chronic toxicity on fish Chronic toxicity on crustacea (Daphnia) No Exposure time No No No No Information available available available available available available available available available No Information available available available No Information available available Available No Information available available 12.4. Mobility in soil	availabi	е		avalia	abie			avaii	abie		a۱	/allable				
Value Dose Exposure time No No Chronic toxicity on fish Chronic toxicity on crustacea (Daphnia) No Exposure time No No No No Information available available available available available available available available available No Information available available available No Information available available Available No Information available available 12.4. Mobility in soil																
Value Dose Exposure time Species Method Evaluation Note No Chronic toxicity on fish Chronic toxicity on crustacea (Daphnia) No EC ₅₀ No No No Information available Torustacea (Daphnia) Exposure time No No Information information information information available Available No Information available Available Torustacea (Daphnia) No Information available Available Torustacea (Daphnia)																
Value Dose Exposure time Species Method Evaluation Note No Chronic toxicity on fish Chronic toxicity on crustacea (Daphnia) No EC ₅₀ No No No Information available Torustacea (Daphnia) Exposure time No No Information information information information available Available No Information available Available Torustacea (Daphnia) No Information available Available Torustacea (Daphnia)																
Chronic toxicity on fish Chronic toxicity on crustacea (Daphnia) No time Species Method Evaluation Note No No No information available 12.4. Mobility in soil		Chro	onic e	ecoto	kicity								1			
Chronic toxicity on fish Chronic toxicity on fish Chronic toxicity on crustacea (Daphnia) Chronic toxicity on crustacea (Mobility in soil Chronic toxicity on available No information information information information information available No information information information available No information available No information information available No information available No information information available 12.4. Mobility in soil		Value	9		Dose	E			Spec	cies		Method	Ev	aluation	No	te
Chronic toxicity on fish LC ₅₀ information available information available available available Chronic toxicity on crustacea (Daphnia) LC ₅₀ information available information available information information information information available information available information available information available information available information available information informatio						No		<u>e</u>			NI.		Na			
Chronic toxicity on crustacea (Daphnia) EC ₅₀ available No information available available No information available available available No information available available available available available available 12.4. Mobility in soil	Chronic	toxicit	tv on	fish	I C50	1		tion	1	ation	1			rmation	_	
Chronic toxicity on crustacea (Daphnia) EC ₅₀ information information available information available available information availa	GGG		.,						1		1					
crustacea (Daphnia) EC ₅₀ Information available available available available available 12.4. Mobility in soil	Chronic	toxicit	tv on			1			1							
12.4. Mobility in soil			•		EC ₅₀	1			1		1				-	
						ava	allable	<u>e</u>	avaiiabi	<u>e</u>	av	/allable	avai	iabie		
	12.4	N 4 - 1-	.:1:4	in sail												
Known or predicted distribution in environmental compartments:	12.4.	-								<u> </u>						
		Kno	wn oi	r pred	icted d	istribut	ion ir	ı envir	onmenta	comp	artm	nents:				
Surface tension:				ensior			1		1				1			
Value °C Concentration Method Note		Vá	alue		°C		C	oncen	tration		N	1ethod			Note	



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Trade na	me:		IRON CHLORIDE, SOLUTION									
Product	code:	Fk	<-OT-X**	Date of com	pilation:	14 ١	November 20	22	Version:	4		
		rmatio ailable	No information available	No information available		informa lable	ation	-				
	Ads	orption	/ desorption		1		1		1			
Transpo	rt	-	coefficient ry's constant	log Kow	Evapo ra		Metho	od	Note			
Soil-wat	er	No info	ormation le	No information available	No informa availabl		No informat available	ion	-			
Water-a	No information available		No information available	No informa availabl		No informat available	ion	_				
Soil-air		No info	ormation le	No information available	1	No No informa information available		ion	-			
12.5.	Resu	ılts of P	BT and vPvB as	sessment								
				ntains no compone rsistent and very bi						ve		
12.6.	Endo	ocrine d	lisrupting prop	erties								
	prop	perties a	according to RE	es not contain com ACH Article 57(f) o U) 2018/605 at leve	r Commi	ssion D	elegated regu			or		
12.7.			rse effects									
	No i	nforma	tion available									
SECTIO	N 13	Disnos	al consideration	nns								
13.1.			ment methods									
13.1.1.	Pro	oduct/P	ackaging dispo	sal:								
		bmit for		e legal person auth	norized b	y the M	linistry of Envir	onmen	tal and Nature			
13.1.2.	Wa	aste coc	les/waste desic	nations according	to Law:							



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

	Disposal must be made according to official regulations.							
13.1.3.	Waste treatment – relevant information:							
	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 recommendat	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	SECTION 14. Transport information							
Transporting/shipment by road (ADR)								
UN numb	er:	Not subject to transport regulations						
UN prope	r shipping name:	-						
Transport	hazard class(es):	-						
Packing g	roup:	-						
Environme	ental hazards:	-						
Special pr	ecautions for user:	-						
	Transporting/shipment by rail	(RID)						
UN numb	er:	Not subject to transport regulations						
UN prope	r shipping name:	-						
Transport	hazard class(es):	-						
Packing g	roup:	-						
Environmental hazards:		-						
Special precautions for user:		-						
Transporting/shipment by inland waterways (ADN)								
UN number:		Not subject to transport regulations						
UN proper shipping name:		-						
Transport hazard class(es):		-						
Packing g	roup:	-						
Environmental hazards:		-						



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

Special precautions for u	iser:	-		
Transporting/s	hipment by sea (I	IMDG)		
UN number:		Not subject to transport regulations		
UN proper shipping nam	ne:	-		
Transport hazard class(es	s):	-		
Packing group:		-		
Environmental hazards:		-		
Special precautions for u	iser:	-		
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 nam	ne:	-		
Transport hazard class(es	s):	-		
Packing group:		-		
Environmental hazards:		-		
Special precautions for user:		-		
Further information: -				

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

15.2. Chemical safety assessn	nent			
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			
Information according guideline)	1999/13/EC about limitation of emissions of volatile organic compounds (VOC-			
	REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);			
	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;			
Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council o 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;			

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)				
Classific	Classification		Classification procedure		
_	-		-		
16.5.	Relevant H statements (nu		mber and full text)		
	H:	302 317 319	Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye irritation.		
16.6.	Training advice:		-		
16.7.	Further 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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Trade name:	TRICHLOROACETIC ACID, SOLUTION				
Product code:	TKO-OT-X**	Date of compilation:	14 November 2022	Version:	4

SECTI	ON 1: Identification of	the substan	ce/mixture a	nd of the company/undertaking		
1.1.	Product identifier	the substan	cc, mixture a	ind of the company, under taking		
	Trade name:	TRICHLOF	ROACETIC ACII	D, SOLUTION		
	Chemical name:	-				
	Catalogue number:	TKO-OT-X	TKO-OT-X**			
1.2.	Relevant identified us	Relevant identified uses of the substance or mixture and uses advised against				
	Uses:		For use with	Fouchet-Van Gieson kit.		
	Uses advised against:		Only the ide	ntified uses are advised.		
	Reason why uses advised against:		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	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltc	I.		
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Telefax:		+385 1 2404039			
	e-mail of competent p	person:	msds@biognost.hr			
	National contact:	National contact:		-		
1.4.	Emergency telephone	Emergency telephone numbers				
	National Protection a	nd Rescue D	irectorate:	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 cate	egory code:	Hazard statement*:			
	Skin Corr. 1A H314					
	Aquatic Chronic 1 H410					
2.1.2.	Additional information					
	-					
* For fu	ll text of Hazard- and EU Hazar	d-statements: see	SECTION 16			
2.2.	Label elements					
	Product identification: TRICHLOROACETIC ACID, SOLUTION					
	Identification number:	-				
	Authorisation number:	-				



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Trade name:	TRICHLOROACETIC ACID, SOLUTION				
Product code:	TKO-OT-X**	Date of compilation:	14 November 2022	Version:	4

ctograms:	GHS07 GHS09		
rd:	Danger		
atement:	 H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation. H410 Very toxic to aquatic life with long lasting effects. 		
nary statements:	P280 Wear protective gloves/ protective clothing/eye/protection/face protection. P303+P361+P353 IF ON SKIN (or hair): take off immediately all contaminated clothing. Rinse skin with water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
etal hazard on (EU):	-		
Other hazards			
), or very persistent ance/mixture does n	ns no components considered to be either persistent, bioaccumulative and and very bioaccumulative (vPvB) at levels of 0.1% or higher. not contain components considered to have endocrine disrupting properties (f) or Commission Delegated regulation (EU) 2017/2100 or Commission		
:a), aı t	nce/mixture contai or very persistent nce/mixture does r		

SECTION 3. Composition/information on ingredients



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Trade name:	TRICHLOROACETIC ACID, SOLUTION						
Product code:	TKO-OT-X**	Date of compilation:	14 November 2022	Version:	4		

CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)
76-03-9/ 200-927-2/ 607-004-00-7	-	20 – 25 %	trichloroacetic acid	Skin Corr. 1A; H314 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 STOT SE 3; H335: C≥1%

SECTI	ON 4. First aid measures				
4.1.	Description of first aid meas	ures			
	General notes:	First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.			
	Following inhalation:	Supply fresh air. Consult doctor if symptoms persist.			
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water and soap and rinse thoroughly. If symptoms persist, consult a doctor.			
	Following eye contact:	Rinse opened eye for several minutes under running water. Remove contact lenses if worn. If symptoms persist, consult a doctor.			
	Following ingestion:	After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.			
	Self-protection of the first aider	Avoid direct contact with the chemical; use appropriate protective equipment described in Section 8.			
4.2.	Most important symptoms and effects, both acute and delayed				
	Following inhalation:	No information available.			
	Following skin contact:	Mixture causes severe burns.			
	Following eye contact:	Mixture causes serious eye damage. Risk of blindness!			
	Following ingestion:	If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages: damage of respiratory tract.			
4.3.	Indication of any immediate	medical attention and special treatment needed			
	No further relevant informa	tion available.			

SECTIO	SECTION 5. Firefighting measures								
5.1.	Extinguishing media								
	Suitable extinguishing media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.							



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Trade name:	TRICHLOROACETIC ACID, SOLUTION							
Product code:	TKO-OT-X**	Date of compilation:	14 November 2022	Version:	4			

	Unsuitable extinguishing media:	For this substance/mixture no limitations of extinguishing agents are given.				
5.2.	Special hazards arising from the substance or mixture					
	Hazardous by products of fire: Carbon oxides Hydrogen chloride gas Not combustible. Ambient fire may liberate hazardous vapours.					
5.3.	Advice for firefighters					
	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.					
5.4.	Additional information					
	Do not contaminate the environment	with extinguishing media.				

	ON 6. Accidental release me					
6.1.	Personal precautions, prote	ective equipment and emergency procedures				
6.1.1.	For non-emergency persor	nnel				
	Protective equipment:	Use personal protective equipment (see Section 8). Keep unprotected persons away.				
	Accident prevention metho	Evacuate members of all non-essential personnel and those members without protective equipment. Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.				
	Emergency procedures:	Mark the area using proper signs.				
6.1.2.	For emergency responders:					
	Use protective equipment; (see Section 8).	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).				
6.2.	Environmental precautions					
	Do not dispose of in sewage Protection and Rescue Dire	ge, drainage system and waterways. In case of large spillage contact National ectorate (NPRD) on 112.				
6.3.	Methods and materials for	containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Cover drains.				
6.3.2.	Cleaning up:	Collect, bind, and pump off spills. Clean up affected area.				
6.3.3.	Other information:	Secure proper ventilation. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material.				
6.4.	Reference to other section					
	See Section 7 for informati	on on safe handling.				
	See Section 8 for informati	on on personal protection equipment.				
	See Section 13 for disposal information.					



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Trade name:	TRICHLOROACETIC ACID, SOLUTION							
Product code:	TKO-OT-X**	Date of compilation:	14 November 2022	Version:	4			

SECTION	ON 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.			
	Measures to prevent aerosol and dust generatio	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. The	oroughly wa	ash hands after work and before eating.			
7.2.	Conditions for safe storage, including any incom	patibilities				
	Technical measures and storage conditions:	well ven	tightly closed and upright set containers in a stilated storage rooms, and away from sources sunlight, and other incompatible substances.			
	Packaging materials:	Manufa	cturer's original packaging.			
	Requirements for storage rooms and vessels:	Keep av tightly o	vay from food and drink. Keep the containers closed.			
	Advices for storage equipment:	must be drain th	rage must be made of hard material; floors e resistant to chemicals. There must be no at directly leads into sewage system. Secure ventilation.			
	Further information on storage conditions:	Do not place the unused material in the storage rand do not use empty containers for storing other chemicals. Do not store with incompatible material (see Section 10).				
7.3.	Specific end use(s)					
	Recommendations:	-				
	Industrial sector specific solutions:	-	-			

SECTIO	SECTION 8. Exposure controls/personal protection								
8.1.	Control parameters	Control parameters							
	Substance	CAS No		exposure limit term values	Biological limit values				
			ppm	mg/m³					
-		-	-	-	-				
Substa	nce: -								



Organisational measures to

Technical measures to prevent

prevent exposure:

exposure:

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

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Trade na	me:	TRICHLOROACETIC ACID, SOLUTION							
Product of	code:	TKO-OT	-X**	Date	of com	pilation:	14 November 2022	Version:	4
EC No:	-		CAS No:		-				
DNEL									
		_		ı	Inc	lustrial		1	
Route of 6	exposure:		te effect local		Acute et		Chronic effect local		nic effect stemic
Oral		-		-			-	-	
Inhalation	l	-		_			-	-	
Dermal		-		_			-	-	
Critical ph	ysical par	ameters: s	solubility, fla	mmal	bility, cor	rosivity:	-	1	
			-		Coi	nsumer	·		
Route of 6	Route of exposure: Acute effect local			Acute et		Chronic effect local		nic effect stemic	
Oral		-		_			-	-	
Inhalation	l	-		-			-	-	
Dermal		-		-			-	-	
PNEC									
Environme	ental prot	ection tar	get			PNEC			
Fresh wat	er					No information available			
Freshwate	r sedimer	nts				No infor	mation available		
Marine wa	ater					No information available			
Marine se	diments					No information available			
Food chai	n					No information available			
Microorga	anisms in	sewage tr	eatment			No information available			
Soil (agric	ultural)					No information available			
Air						No information available			
8.2.	Exposu	ire contro	ls						
8.2.1.	Appro	oriate eng	ineering co	ntrols					
	Substance/mixture related measures to prevent exposure				Use personal protective equipment. Do not eat, drink or smoke in the workspace.				or smoke in
	Structural measures to prevent exposure: No information available					vailable			

during work process.

Organization of work in order to reduce other worker's influence

Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.



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Trade name:	TRICHLOROACETIC ACID, SOLUTION						
Product code:	TKO-OT-X**	Date of compilation:	14 November 2022	Version:	4		

8.2.2.	Personal protection equipment:				
8.2.2.1.	Eye and face protection:	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU)			
8.2.2.2.	Skin protection				
0,2,2,2,	Hand protection:	Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Full contact: Glove material: Nitrile rubber Glove thickness: 0.11 mm Break through time: 480 min Splash contact: Glove material: Nitrile rubber Glove thickness: 0.11 mm Break through time: 480 min			
	Other skin protection:	Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.			
8.2.2.3.	Respiratory protection:	Where risk assessment shows air-purifying respirators are appropriate use type ABEK (EN 14387) respirator cartridges as a backup to engine protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as CEN (EU).			
8.2.2.4.	Thermal hazards:	No information available			
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Section 6			
	Structural measures to prevent exposure:	Use modern equipment.			
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.			
	Technical measures to prevent exposure:	See Section 6			

SECTIO	SECTION 9. Physical and chemical properties			
9.1.	Information on basic physical and chemical properties			
		Value	Method	



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Trade name:	TRICHLOROACETIC ACID, SOLUTION				
Product code:	TKO-OT-X**	Date of compilation:	14 November 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
Lover 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
Other information		

SECTIO	SECTION 10.: Stability and reactivity			
10.1.	Reactivity:	No relevant information available.		
10.2.	Chemical stability:	The product is chemically stable under recommended storage conditions.		
10.3.	Possibility of hazardous reactions:	No information available		
10.4.	Conditions to avoid:	No information available		
10.5.	Incompatible materials:	Strong oxidizing agents.		
10.6.	Hazardous decomposition products:	No information available		

SECTIO	SECTION 11. Toxicological information	
11.1.	Information on toxicological effects	
	Acute toxicity:	



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Trade name:	TRICHLOROACETIC ACID, SOLUTION			_	
Product code:	TKO-OT-X**	Date of compilation:	14 November 2022	Version:	4

Route of exposure:	Method	Species	Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results
Oral:	No information available	rat	LD ₅₀	No information available	3.320 mg/kg (trichloracetic acid)
Dermal:	No information available	-	LD ₅₀	No information available	-
Inhalation:	No information available	_	LC ₅₀	No information available	-

Specific target organ toxicity - single exposure (STOT-SE):				
	Specific effects	Target organ	Note	
Oral:	No information available	No information available	-	
Dermal:	No information available	No information available	-	
Inhalation:	No information available	Respiratory system	-	

A	
Aspiration hazard:	-

Irritation and corrosion					
	Exposure time	Species	Evaluation	Method	Note
Skin corrosion/irritation	-	-	-	-	causes severe burns
Serious eye damage/irritation	-	-	-	-	causes serious eye damage

Sensitization	
Skin sensitization:	No information available
Respiratory sensitization:	No information available

Symptoms	s related to physical, chemical, and toxicological properties
Oral exposure:	May cause redness, mouth pain and sore throat.
Dermal exposure:	May cause irritation and redness.
Inhalation exposure:	May cause throat irritation and chest tightness. Exposure may cause coughing and shortness of breath.
Eye exposure:	May cause irritation, redness, and excessive lacrimation.



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			nic, chronic)			
	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No information available	No informatio available	on -
Subacute dermal	No information available	No information available	No information available	No information available	No informatio available	on -
Subacute inhalation	No information available	No information available	No information available	No information available	No informatio available	on -
Subchronic oral	No information available	No information available	No information available	No information available	No informatio available	n -
Subchronic dermal	No information available	No information available	No information available	No information available	No informatio available	n -
Subchronic inhalation	No information available	No information available	No information available	No information available	No informatio available	n -
Chronic oral	No information available	No information available	No information available	No information available	No informatio available	on -
Chronic dermal	No information available	No information available	No information available	No information available	No informatio available	n -
Chronic inhalation	No information available	No information available	No information available	No information available	No informatio available	on -
Specific t	target organ toxic	'	<u>. </u>		***	
<u> </u>		Specific e		Target or	_	Note
Subacute darmal		No information No information		No information a		-
Subacute dermal		No information		No information a		-
Subacute inhalatic Subchronic oral		No information		No information a		_
Subchronic derma		No information		No information a		
Subchronic inhala		No information		No information a		_



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Chronic	oral	No information	available	No information available	-
Chronic	: dermal	No information	n available	No information available	-
Chronic	inhalation	No information	available	No information available	-
	CLAD (C				
	1	genicity, mutagenici	· ·	•	
	Carcinogenicity:			tion available	
	Mutagenicity in-vitro	D:	No informa	tion available	
	Genotoxicity:		No informa	tion available	
	Mutagenicity in-vivo	:	No informa	tion available	
	Germ cell mutagenio	city:	No informa	tion available	
	Reproductive toxicit	y:	No informa	tion available	
	Summary of evaluation properties:	ation of the CMR	No informa	tion available	
11.2.	Information on othe	r hazards:			
11.2.1.	Endocrine disrupting	properties:			
	components consid disrupting propertion Article 57(f) or regulation (EU) 20	ture does not colered to have endo es according to RE Commission Deleg 17/2100 or Commis 8/605 at levels of 0.1	crine EACH pated ssion		
11.2.2.	Other informations:		·		
	_				

SECTION 12. Ecological information								
12.1. Toxicity								
Acute (short-term) 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	-		



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Algae/aquatic plants:	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms:	-	-	-	-	-	-
Chronic (long-term) toxicity	Doza	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. Tersistence and degradability	12.2. Persistence and degradability
-------------------------------------	-------------------------------------

Abiotic 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	-

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

12.3. Bioaccumulative potential

Octanol-water partition coefficient (log Kow)

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



Trade name:

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

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Product code: TKO-OT-X*		**	Da	te of com	pilation:	14 Nov	ember 2022	mber 2022 Version: 4				
	Bioc	oncen	tration Factor	(BCF)								
V	/alue	Oriceri	Spe			Me	ethod	Εν	/aluation		No	te
						No inforr	mation	_				
-			-			available		-		-		
	Chr	nic ec	otoxicity									
					Exi	posure						
	Va	lue	Do	ose		time	Species	5 N	Method	Eval	uation	Note
Chuania			£:-b 1.C				No information	No		No		
Chronic toxicity on fish LC_{50}					available			information - available		-		
Chronic	Chronic toxicity on					No	No					
crustace		-) EC ₅₀	1			information available	1		inform availab		-
					avant	ubic	available	uvu	lidble	avanac	,,, <u>,</u>	
12.4.	Mok	oility in	soil									
	Kno	wn or _l	predicted dis	tributio	on in e	environme	ntal compa	rtments:				
	No i	nform	ation availabl	e								
	Surf	ace ter	nsion:									
					0.1							T
	NI-		intonnetion	N	°(C nformation		ntration	N	∕lethod		Note
	No avai	lable	information	No availa		ntormation	available	o information vailable		available	-	
	7											
	Ads		n / desorption	1								
Transport A/D coefficient Henry's constant			log	y Kow	Evapora	tion rate	Metho	Method Not		Note		
Soil-Water No informa		information ble		o ir ailable	nformation e	No infor available		No informa available	ation	-		
Water-Air No information available			o ir ailable	nformation e	No infor available		No informa available	ation	-			



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Soil-Air		No information available	No information available	No information available	-		
12.5.	Results of PBT and vPvB asse	essment					
	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.						
12.6.	Endocrine disrupting properties						
	The substance/mixture does according to REACH Article Regulation (EU) 2018/605 at	57(f) or Commission	n Delegated regula				
127.	Other adverse effects						
	No information available						
	N 13. Disposal consideration						
13.1.	Waste processing method	S					
13.1.1.	Product/Packaging dispos	al·					
	Submit for disposal to the Protection.		rized by the Minist	ry of Environmental	and Nature		
13.1.2.	Waste codes/waste design	ations according to) Low:				
	Disposal must be made ac						
	:						
13.1.3.	Waste tretment – relevant	information					
	No information available						
13.1.4.	Sewage disposal – relevan	t information:					
	Waste must not be dispose		ge system.				
	:						
13.1.5.	Other disposal recommend	dations:					
	Do not dispose of the procauthorized by the ministry the packaging to the colleging ignition may occur.	in charge. Do not o	dispose of the pack	aging into the sewa	ige system. Submit		
13.1.6.	Relevant Community provi	icions:					



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Disposal must be made acc	ording to official regulations.
SECTION 14. Transport information	
Transporting/shipment by roa	ad (ADR)
UN number:	2564
UN proper shipping name:	Trichloroacetic acid solution
Transport hazard class(es):	8
Packing group:	II
Environmental hazards:	yes
Special precautions for user:	-
Transporting/shipment by rail	(RID)
UN number:	2564
UN proper shipping name:	Trichloroacetic acid solution
Transport hazard class(es):	8
Packing group:	П
Environmental hazards:	yes
Special precautions for user:	-
Transporting/shipment by inla	and waterways (ADN)
UN number:	2564
UN proper shipping name:	Trichloroacetic acid solution
Transport hazard class(es):	8
Packing group:	П
Environmental hazards:	yes
Special precautions for user:	-
Transporting/shipment by sea	a (IMDG)
UN number:	2564
UN proper shipping name:	Trichloroacetic acid solution
Transport hazard class(es):	8
Packing group:	П
Environmental hazards:	yes
Special precautions for user:	-
Transport in bulk condition in accordance with Annex II. of MARPOL 73/78 and IBC Codex:	-
Transporting/shipment by air	(ICAO-TI/IATA-DGR)
UN number:	2564



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UN proper shipping name:	Trichloroacetic acid solution
Transport hazard class(es):	8
Packing group:	II.
Environmental hazards:	yes
Special precautions for user:	-
<u> </u>	
Further information: -	

SECTIO	ON 15. Regulatory informati	ion				
15.1.	Safety, health and environm	Safety, health and environmental regulations/legislation specific for the substance or mixture				
	EU regulations					
	Authorisation and/or restric	ctions on use				
	Authorisations:	-				
	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 guideline)	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)				
	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	t				



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None

SECTIO	ON 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:	-			
16.4.	Classification and proced	dure used to derive the classification for mixture according to Regulation (EC)			
Classif	ication	Classification procedure			
-		-			
16.5.	Relevant H statements (r	number and full text)			
	314	Causes severe skin burns and eye damage.			
	H: 335	May cause respiratory irritation.			
	400	Causes severe skin burns and eye damage.			
	410	Very toxic to aquatic life with long lasting effects.			
16.6.	Training advice:	-			
16.7.	Further 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			
10.7.	Turtilet ittiotttiatiott.	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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