

WARTHIN STARRY KIT

The kit contains:

Acid solution
Silver nitrate, crystals
Silver nitrate, WS solution
Gelatin, solution (in transport / incubation container)
Hydroquinone, solution



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Trading name:	ACID SOLUTION					
Product code:	KOT-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	

		<i>-</i>		
ON 1 IDENTIFICATION (OF THE SUBS	STANCE/MI	XTURE AND OF THE COMPANY/UNDERTAKING	
Product identifier				
Trading name:	ACID SOLUTION			
Chemical name:	-			
Catalogue number:	KOT-OT-X**			
Relevant identified use	s of the subs	stance or mi	xture and uses advised against	
Uses:		For use w	ith special staining kits.	
Uses advised against:		Only the i	dentified 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		
Details of the supplier	of the safety	data sheet		
Supplier: Bi		ioGnost Ltd.		
Address: N		Medjugorska 59, Zagreb		
Telephone number:	+	-385 1 2409997		
Fax no.: +		+385 1 2404039		
e-mail of competent p	erson: <u>m</u>	msds@biognost.hr		
National contact:	-	-		
Emergency telephone	number			
National Protection and Rescue Dire		octorato:	112	
National Protection an	d Rescue Dir	ectorate.	• • •	
National Protection an Medical information:	d Rescue Dir	ectorate.	+385 1 2348 342	
	Trading name: Chemical name: Catalogue number: Relevant identified use Uses: Uses advised against: Reason why uses advis Details of the supplier Supplier: Address: Telephone number: Fax no.: e-mail of competent p National contact:	Trading name: ACID SOLU Chemical name: - Catalogue number: KOT-OT-X* Relevant identified uses of the subs Uses: Uses advised against: Reason why uses advised against: Details of the supplier of the safety Supplier: B Address: N Telephone number: + Fax no.: + e-mail of competent person: m	Trading name: Chemical name: Catalogue number: KOT-OT-X** Relevant identified uses of the substance or mi Uses: Uses advised against: Conly the interpretation of the safety data sheet Supplier: Address: Telephone number: Fax no.: Habitaname: ACID SOLUTION ACID SOLUTION ACID SOLUTION ACID SOLUTION ACID SOLUTION ACID SOLUTION For use we medical of medical of Medical Divided against: The production medical of Medical Divided against: Address: Habitaname: ACID SOLUTION ACID SOLUTION For use we medical of Medical Divided against: The production medical of Medical Divided against: Address: Address: Telephone number: Habitaname: Habitaname: Habitaname:	

SECTIO	ON 2 HAZARDS INFORMATION					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification (REGULATION (EC)	No. 1272/2008 ((CLP)			
	Hazard class and category code: Hazard statements*:					
	Not identified as hazardous substance					
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Hazard-st	atements: see Se	ection 16			
2.2.	Classification according to EC Dir	ective Nr. 1272/	2008 CLP)			
	Product identification:	ACID SOLUTION	ON			
	Identification number:	-				
	Authorization no.:	-				
	Hazard pictograms:	-				



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

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

SECTIO	TION 4 FIRST AID MEASURES					
4.1.	Description of first aid measures					
	General notes:		-			
	Following inhalation:		No information available			
	Following skin contact:		No information available			
	Following eye contact:		No information available			
	Following ingestion:		No information available			
	Self-protection of the first	aider:	Treat symptomatically.			
4.2.	Most important symptoms	and eff	ects, both acute and delayed			
	Following inhalation:	No i	nformation available			
	Following skin contact:	No i	nformation available			
	Following eye contact:	No i	nformation available			
	Following ingestion:	No information available				
4.3.	Indication of any immediat	e medi	cal attention and special treatment needed			
	-					

SECTION 5 FIREFIGHTING MEASURES			
5.1.	Extinguishing media		



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

SECTIO	ON 6 ACCIDENTAL RELEASE M	MEASURES			
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personne	For non-emergency personnel			
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	.1.2. For emergency responders: Wear protective equipment (see Section 8).				
6.2.	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact Nati Protection and Rescue Directorate (NPRD) on 112.				
6.3.	Methods and material for containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.			
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.			
6.3.3.	Other information:	-			
6.4.	Reference to other sections				



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SECTIO	ON 7 HANDLING AN STORAGE					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.				
	Measures to prevent aerosol and dust 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. Thoroughly wash hands after work and before eating.					
7.2.	Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances.				
	Packaging materials:	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:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.				
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).				
7.3.	Specific end use(s)					
	Recommendations:	-				
	Industrial sector specific solutions:	-				

SECTI	SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION							
8.1.	Control parameters	Control parameters						
Substance		CAS No	•	exposure limit t term values	Biological limit values			
			ppm	mg/m³				
-		-			No information available			
				•				



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				:				:	1 1	
Substance name:	-									
EC No:	_		CAS No:	_						
DNEL										
					Ind	lustrial				
Route of Acute A				Acute	9		Chronic	Chronic		
exposure:		effe	ct local	е	effect syst	temic		effect local	effect systemic	
Oral		-		-			-		-	
Inhalation		-		-			-		-	
Dermal		-		-			-		-	
Critical phys	sical par	ameters: s	olubility, fla	mmab	ility, corr	osivity:	-	-		
					Cor	nsumer				
Route of		Δ	cute		Acute	e		Chronic	Chronic	
exposure:		effe	ct local	effect system		temic	effect local		effect systemic	
Oral		-		-			-		-	
Inhalation		-		-	-		-		-	
Dermal		-		-			-		-	
PNEC										
Environmen	ntal prot	ection targ	get			PNEC				
Fresh water						No information available				
Freshwater	sedimer	nts				No information available				
Marine wate	er					No information available				
Marine sedi	ments					No information available				
Food chain						No information available				
Microorgan	isms in :	sewage tre	eatment			No information available				
Soil (agricul	tural)					No information available				
Air					No information available					
8.2.	Exposu	re control	S							
8.2.1.	Engine	ering mea	sures							
	measu	nce/mixtu res to prev identified	ent exposu	re		•		ventilated rooms. U drink or smoke in t	Jse personal protective he workspace.	
	Structu exposu		res to preve	ent	No infor	rmation av	ailable	2		
	_	sational m t exposure	neasures to			ation of w		order to reduce ot	her worker's influence	



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	Technical measures to prexposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.			
8.2.2.	Personal protection equi	pment				
8.2.2.1.	Eye and face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.			
8.2.2.2.	Skin protection					
			tive gloves must be according to the EU Directive 2016/425/EEC and ard EN 374.			
	Hand protection:		Glove this law and 2.50 mms			
			Glove thickness: ≥0.50 mm Break through time: >480 min			
	Other skin protection:	Wear antistatic clothing made of natural fibers (such as cotton) with lor sleeves (EN 13034), and shoes that cover the entire foot (EN 10335).				
8.2.2.3.	Respiratory protection:	filter f	ctive full face mask (EN 136) or half mask (EN 140) equipped with a or organic vapors, type "A" (boiling point >65°C) acording to EN) used when concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No inf	ormation 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 prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.			
	Technical measures to pr exposure:	event	See Section 6			

SECTI	ON 9 PHYSICAL AND CHEMICAL PROF	PERTIES					
9.1.	Information on basic physical and chemical properties						
		Value	Method				
	Physical state:	liquid	No information available				
	Colour:	colourless	No information available				
	Odour/odour threshold:	no odor/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				



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	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 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
9.2.	Other information		
	-		

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

SECTION 11 TOXIC	COLOGICAL INFORM	ATION						
11.1. Informatio	ion on hazard classes as defined in Regulation (EC) No 1272/2008							
Acute toxic	city:							
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results			
Oral exposure:	No information available	-	LD ₅₀	-	-			
Dermal exposure:	No information available	-	LD ₅₀	-	-			
Inhalation exposure:	No information available	-	LC ₅₀	-	-			



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Specific	target organ toxic	itv – sinale expo	osure (STOT SF):				
<u> </u>		Specific effects	33410 (310132).	Target	organ		Note
Oral exposure:		nation available	No information available			le -	
Dermal exposure: No informa		nation available	No i	nformatio	n availab	le -	
Inhalation expos		nation available	No i	nformatio	n availab	le -	
<u> </u>	į.		<u> </u>			<u> </u>	
Respira	tory irritation:	N	o information a	/ailable			
Irritatio	n and corrosion					**	
	Exposure	e time S	pecies Eva	uation	Method		Note
Skin irritation:	-	-	-		-	-	
Eye irritation:	-	-	-		-	-	
:							
Sensitiz	ation						
Dermal exposure	e: No informatio	n available					
Inhalation exposure:	No informatio	n available					
	·						
Sympto	oms related to the p	ohysical, chemic	al and toxicolog	ical chara	cteristics		
Oral exposure:	No informa	tion available					
Dermal exposure	e: No informa	tion available					
Inhalation expos	sure: No informa	tion available					
Eye exposure:	No informa	tion available					
	;						
Repeat	ed dose toxicity (su	bacute, subchro	onic, chronic)				
	Dose	Exposure time	Species	Method	E	valuation	Note
Subacute oral	No information available	No information available	No information available	No informa available	tion i	No nformation vailable	-
Subacute dermal	No information available	No	No information available	No informa available	tion i	No nformation vailable	-
Subacute inhalation	No information available	No information available	No information available	No informa available	tion i	No nformation ivailable	-
				.4			



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Subchronic oral	No information available	No information available	No information available	No information available	No information available	-
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-
Chronic oral	No information available	No information available	No information available	No information available	No information available	-
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-

Specific target	organ toxicity – repeated exposu	ure (STOT RE):	
	Specific effects	Target organ	Note
Subacute oral	No information available	No information available	-
Subacute dermal	No information available	No information available	-
Subacute inhalation	No information available	No information available	-
Subchronic oral	No information available	No information available	-
Subchronic dermal	No information available	No information available	-
Subchronic inhalation	No information available	No information available	-
Chronic oral	No information available	No information available	-
Chronic dermal	No information available	No information available	-
Chronic inhalation	No information available	No information available	-

CMR effects (carcinogenicity	y, mutagenicity, reproductive toxicity)
Carcinogenicity:	Current studies on test animals did not indicate carcinogenic effects.
Mutagenicity in-vitro:	Current in vitro tests did not indicate mutagenic effects.
Genotoxicity:	No information available
Mutagenicity in-vivo:	Current in vivo tests did not indicate mutagenic effects.
Germ cell mutagenicity:	No information available
Reproductive toxicity:	No toxicity on reproductive organs was determined in reproductive organs.



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	Summary of evaluation of the CMR properties: -
11.2	Information on other hazards:
11.2.1.	Endocrine disrupting properties:
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
11.2.2.	Other informations:
	-

SECTION 12 ECOLOGICAL INFORMATION:

12.1. **Toxicity** Exposure Acute toxicity Dose **Species** Method Evaluation Note time No No information 96 hours Fish LC_{50} information available available No No information EC_{50} 48 hours information Crustacea: available available No No information Algae/aquatic plants IC_{50} 8 days information available available LC_{50} 72 hours Microorganisms Exposure Method Evaluation Chronic toxicity Dose **Species** Note time No No No information information Fish LC_{50} 96 hours information available available available No No No information information information Crustacea: EC_{50} 48 hours available available available No No No information Algae/aquatic plants IC_{50} 72 hours information information available available available



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Trading nar	me:					ACID SC)LU	IION			
Product cod	de:	КОТ-ОТ-Х	**		Date	e of compilati	on:	21 Dec	2022	Versio	n: 4
					-			·			·
Other organ	isms	-	-		-		_		-		•
		i	· · · · · · · · · · · · · · · · · · ·		i	;			1	i	
12.2. Pers	sistence	e and degrad	lability								
		gradation									
***		egradation h	nalf-live	S		Method			Evaluatio	on	Note
Marine water		information			No info	rmation availab	ole	No inform	nation av	ailable	-
Fresh water	No	information	availab	le	No info	rmation availab	ole	No inform	nation av	ailable	-
Air	No	information	availab	le	No info	rmation availab	ole	No inform	nation av	ailable	-
Soil	No	information	availab	le	No info	rmation availab	ole	No inform	nation av	ailable	-
				1							<u> </u>
Biod	degrad	ation									
% Degradat		Time (d	avs)		M	lethod		Evaluatio	n	N	ote
No informati			ormatic	n N	No information					No information	
available	á	available		a۱	available		av	ailable		available	
									·		
12.3. Bioa	accumu	ılative poten	tial								
Part	tition c	oefficient: n-	octano	/wate	r (log K	ow):					
Value	Cor	ncentration	рŀ	1	°C	Method		Evalua	ation		Note
	No	information	ı			No information	า	No inform	nation		
_	availa	ble	-	•	-	available		available		-	
Biod	concen	tration facto	r (BCF)								
Value		Spe	cies			Method		Evaluation	on	١	lote
No informati	ion		informa	ation		ormation		o informatio	on	No inform	ation
available available			availab	ole	av	ailable		available			
							-				
1											
Chr	onic ec	otoxicity	3								
į.	ronic ec		ose	•	osure ime	Species		Method	Eva	luation	Note



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Trading	g name:				<i>F</i>	ACID 20	LUIIU	IN				
Produc	roduct code: KOT-OT-X**			Date o	of co	mpilati	on: 2	1 Dec	2022	Versio	n:	4
				:-ft	:		:	_4:	ما ما ما المديدة			
					avail	mation able	inform availab		available			
	toxicity o ea (<i>Daphn</i>		EC ₅₀	information	No infor avail	mation able	No inform availab		No infori available		_	
12.4.	Mobility	in soil										
	Known o	r predict	ted distributi	on in environme	ntal	compart	ments:					
	No infor	nation a	ıvailable									
	Surface t	ension:										
	Value	•	°C	Concentrati	ion		Metho	od		No	te	
	No informat available		o Iformation vailable	No informati available	on	No inf availat	ormatio ole	on -				
Transpo	ort	A/D coe		log Kow	E'	vaporati	on rate		Method		N	ote
Soil-wa	ter No		nformation	No information available		o inform /ailable	ation	No ir	formation able	1 -		
Water-a	air No avai	i lable	nformation	No information available		o inform ⁄ailable	ation	No ir availa	formation able	-		
Soil-air	No avai	lable	information	No information available		o inform ⁄ailable	ation	No ir availa	formation able	l -		
12.5.	Results o	f PBT an	nd vPvB asses	ssment								
	accordin	g to REA	CH Article 5	not contain com 7(f) or Commissi evels of 0.1% or	on D	elegated				•		-
12.6.	Endocrin	e disrup	ting properti	es								
	accordin	g to REA	CH Article 5	not contain com 7(f) or Commissi evels of 0.1% or	on D	elegated				•	.	•

12.7. Other adverse effects

No information available



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SECTION	N 13 DISPOSAL CONSIDE	RATIONS		
13.1.	Waste treatment method			
13.1.1.	Product/Packaging disp	osal:		
	Submit for disposal to the Protection.	ne legal person authorized by the Ministry of Environmental and Nature		
13.1.2.	Waste codes/waste desi	gnations according to Law:		
	No information available			
13.1.3.	Waste treatment – relev			
	No information available			
13.1.4.	Sowago disposal rolov	ant information:		
13.1.4.	Sewage disposal – relevant information: Waste must not be disposed of into the sewage system.			
	waste must not be dispo	osed of fillo the sewage system.		
13.1.5.	Other disposal recomme	endations:		
	authorized by the minist	roduct's remains into the sewage system. Submit the remains to the collectors rry in charge. Do not dispose of the packaging into the sewage system. Submit lectors authorized by the ministry in charge. Do not dispose of in places where		
13.1.6.	Relevant Community pro	ovisions:		
	-			
SECTION	N 14 TRANSPORT INFORI			
1 101	Transporting/shipment by			
UN num	per shipping name:	Not subject to transport regulations.		
	rt hazard class(es):			
Packing				
······	mentally hazardous:	-		
	precautions for user:	-		
	Transporting/shipment by	rail (RID)		
UN num	ber:	Not subject to transport regulations.		
1 IN1	per shipping name:	-		



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Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN)	
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	MDG)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by air (ICA	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: -	

SECTIO	SECTION 15 REGULATORY INFORMATION				
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture				
	EU regulations				
	Authorization and/or restric	tions of use			
	Authorizations:	-			
	Restrictions:	-			



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	Other EU regulations:	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 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2.	Chemical safety assessme	ent
	None	

SECTIO	ECTION 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:	-			



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Trading name:	ACID SOLUTION			
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16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)			
Classific	cation	Classification procedure		
-		-		
16.5.	.5. Relevant H statements (number 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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Trading name:	SILVER NITRATE, CRYSTALS				
Product code:	SNP-P-X**	Date of compilation:	21 Dec 2022	Version:	5

SECTION	ON 1: Identification of t	he substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	SILVER NITI	RATE, CRY	STALS	
	Chemical name:	-	-		
	Catalogue number:	SNP-OT-X*	*		
h1.2	Relevant identified use	s of the subs	tance or m	nixture and uses advised against	
	Uses:		For use	with special staining kits.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advis	sed against:	The product is intended for use only as an <i>in vitro</i> diagnosti medical device, registered at the Agency for Medicinal Prod Medical Devices and there is no reason to use it for other product.		
1.3	Details of the supplier	of the safety	data shee	t	
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb +385 1 2409997 +385 1 2404039 msds@biognost.hr		
	Telephone number:				
	Telefax.:				
	e-mail of competent p	erson:			
	National contact:		-		
1.4	Emergency telephone	number			
	National Protection an	d Rescue Dire	ectorate:	112	
	Medical information: Other information:			+385 1 2348 342	
				-	

SECTIO	ON 2. Hazards identification				
2.1	Classification of the substance or mixture				
2.1.1	Classification according to Regu	ılation (EC) No 12	1272/2008 (CLP)		
	Hazard class and catego	ory code:	Hazard statements*:		
	Ox. Sol. 2		H272		
	Skin Corr. 1B		H314		
	Aquatic Chronic 1		H410		
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Hazard-s	statements: see S	SECTION 16		
2.2	Label elements				
	Product identification:	SILVER NITRATE	E, CRYSTALS		
	Identification number:	_			



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Trading name:	SILVER NITRATE, CRYSTALS				
Product code:	SNP-P-X**	Date of compilation:	21 Dec 2022	Version:	5

	Authorization number:	-	
	Hazard pictograms:	GHS03 GHS05 GHS09	
	Signal word:	Danger	
	Hazard statements:	H272 May intensify fire; oxidizer. H314 Causes severe skin burns and eye damage. H410 Very toxic to aquatic life with long lasting effects.	
	Precautionary statements:	P273 Avoid release to the environment. 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/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		
	Endocrine Disrupting Properties:		
	No known endocrine disrupti	ng properties	
	Results of PBT and vPvB assessment : According to the results of its assessment, this substance is not PBT or a vPvB.		

SECTION 3. Cor	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)				
7761-88-8/ 231-853-9/ 047-001-00-2	-	≤ 100 %	silver nitrate	Ox. Sol. 2; H272 Skin Corr. 1B; H314 Aquatic Acute 1; H400 Aquatic Chronic 1; H410				

SECTIO	ON 4. First aid measures	
4.1	Description of first aid measures	
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.



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Trading name:		SILVER NITRATE, C	RYSTALS		
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	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 oral cavity, drink 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:	-			
4.2	Most important symptoms and effects, both acute and delayed				
	Following inhalation:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.			
	Following skin contact:	Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking.			
	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.			
	Following ingestion:	Danger of gastric perforattion.			
4.3	Indication of any immediate medi	cal attention and special treatment needed			

SECTIO	ON 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media: Water spray, foam, dry powder, CO ₂ or alcohol resistant foam.				
	Unsuitable extinguishing media:	Water with full jet.			
5.2	Special hazards arising from the su	ubstance or mixture			
	Hazardous combustion products: Nitrogen oxides (NOx). During heating or in case of fire poisonous gases are produced.				
5.3	Advice for firefighters				
	Use a self-contained open-circuit o	compressed air breathing apparatus and fireproof clothing.			
5.4	Additional information				
	Do not contaminate the environm	ent with extinguishing media.			

SECT	ION 6. Accidental release measures
6.1	Personal precautions, protective equipment and emergency procedures



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Trading name:	SILVER NITRATE, CRYSTALS					
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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.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	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, drainage system and waterways. In case of large spillage contact Protection and Rescue Directorate (NPRD) on 112.				
6.3	Methods and material for con-	tainment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.			
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:	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 on personal protection equipment.				
	See Section 13 for disposal information.				

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. Keep away from sources of ignition and heat.
	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:	Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.
7.1.2.	Advice on general occupational hygiene:	



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Trading name:		SILVER NITRATE, C	RYSTALS		
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	Do not eat, drink or smoke in the workspace. The	noroughly wash hands after work and before eating.					
7.2	Conditions for safe storage, including any incompatibilities						
	Technical measures and storage conditions:	Keep in a cool and well-ventilated place. Keep away from heat and direct solar radiation.					
	Packaging materials:	Manufacturer's original packaging. Store away from flammable substances.					
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed. Protected from light.					
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.					
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).					
7.3	Specific end use(s)						
	Recommendations:	-					
	Industrial sector specific solutions:	-					

SECTION 8. Expo	sure	contro	ols/perso	nal pro	otection				
8.1 Control p	aram	ameters							
Substance		CAS No				exposure limit term values	Biological limit values	Biological limit values	
					рр	m	mg/m³	-	
Silver nitrate (as Ag)		776	1-88-8	-		0.01	-		
							_		
Substance name:	_								
EC No:	_		CAS No: -		-				
DNEL	•								
					Indus	trial			
Route of		Acu	te		Acute		Chronic	Chronic	
exposure:		effect	local	effec	t systemic		effect local	effect systemic	
Oral	-			-		-		-	
Inhalation	-			-		-		-	
Dermal	-			-		-		-	
Critical physical pa	arame	eters: s	olubility,	flamma	ability, corros	sivity:	-	•	
					Consi	umer	i		



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Trading name:		SILVER NITRATE, CRYSTALS					
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Route of exposure		Acute effect local	Acute effect syste	emic	Chronic effect local	Chronic effect systemic	
Oral		-	-	-		-	
Inhalation	n	-	-	-		-	
Dermal		-	-	-		-	
PNEC							
Environm	nental prot	ection target		PNEC			
Fresh wat	ter			no inf	ormation available		
Freshwate	er sedimer	nts		no inf	ormation available		
Marine w	ater			no inf	ormation available		
Marine se	ediments			no inf	ormation available		
Food cha	in			no inf	ormation available		
Microorg	anisms in	sewage treatment		no inf	ormation available		
Soil (agri	cultural)			no inf	no information available		
Air				no inf	ormation available		
	Exposu	ure controls		no inf	ormation available		
8.2 8.2.1.	•	ure controls priate engineering	controls	no inf	ormation available		
8.2	Appro		ed measures to	Use th	ne product in well ve ctive equipment. Do	entilated rooms. Use personal not eat, drink or smoke in the	
8.2	Appro Substa prever	priate engineering ince/mixture relate it exposure during ural measures to p	ed measures to identified use	Use the protection works	ne product in well ve ctive equipment. Do	not eat, drink or smoke in the	
8.2	Appro Substa prever Structu exposu	priate engineering ince/mixture relate it exposure during ural measures to p ure: isational measures	ed measures to identified use: revent	Use the protect works In accompany	ne product in well ve ctive equipment. Do pace. ordance with Sectio	not eat, drink or smoke in the n 7. rder to reduce other worker's	
8.2	Substa prever Structu exposu Organ exposu	priate engineering ince/mixture relate it exposure during ural measures to p ure: isational measures	ed measures to identified use revent to prevent	Use the protect works In accomparing the secure conce	ne product in well vective equipment. Do pace. ordance with Section ization of work in once during work prosessive proper workspace	not eat, drink or smoke in the n 7. rder to reduce other worker's ocess. ventilation in order to keep below permitted levels. Secure	
8.2	Substa prever Structu exposu Organi exposu	priate engineering ince/mixture relate it exposure during ural measures to p ure: isational measures ure:	ed measures to identified use revent to prevent	Use the protect works In accomparing the secure conce	ne product in well ventive equipment. Do pace. ordance with Section ization of work in once during work proper workspace ontration levels in air	not eat, drink or smoke in the n 7. rder to reduce other worker's ocess. ventilation in order to keep below permitted levels. Secure	
8.2 8.2.1.	Appro Substa prever Structu exposu Organi exposu Techni	priate engineering Ince/mixture relate It exposure during Irral measures to poure: Isational measures Irre:	ed measures to identified uses revent to prevent event exposur pment Safe leve	Use the protect works In accomparing the secure concestation sety glasses is of concests.	ne product in well vertive equipment. Do pace. ordance with Section ization of work in once during work production levels in airns for rinsing eyes a that stick to face (Eentration in air; proteins in air; pro	not eat, drink or smoke in the n 7. rder to reduce other worker's ocess. ventilation in order to keep below permitted levels. Secure	



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Trading name:		SILVER NITRATE, CRYSTALS					
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	Hand protection:	Protective gloves must be according to the EU Directive EU 2016/425/EEC and standard EN 374. 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:	Wear antistatic clothing made of natural fibers (such as cotton) with long sleeves (EN 340) and shoes that cover the entire foot.		
8.2.2.3.	Respiratory protection:	Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present. Recommended Filter type: Filter P3 (acc. to EN 14387).		
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		

SECTI	SECTION 9. Physical and chemical properties						
9.1	Information on basic physical and chemical properties						
		Value	Method				
	Physical state:	crystalline	No information available				
	Colour:	colourless	No information available				
	Odour/odour threshold:	odourless/no information available	No information available				
	Melting point / freezing point:	212 °C	No information available				
	Boiling point or initial boiling point and boiling range:	444 °C	No information available				
	Flammability:	Product is not flammable	No information available				
	Lover and upper explosion limit:	No information available	No information available				
	Flash point:	Not applicable	No information available				



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Trading name:		SILVER NITRATE, CRYSTALS					
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	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	444 °C	No information available
	pH:	5.5 -6.4 (100 g/l at 20°C)	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	2.192 g/l (water, 20°C)	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		
	-		

SECTION	SECTION 10. Stability and reactivity					
10.1	Reactivity:	See subsections 10.3 through 10.5.				
10.2 Chemical stability:		The product is chemically stable if used according to specifications. Sensitivity to light.				
10.3	Possibility of hazardous reactions:	Reacts with alkali and metals, with light metals, with acids, alkalis and oxidising agents.				
10.4	Conditions to avoid:	Strong heating (decomposition). Exposure to light.				
10.5	Incompatible materials:	Acids, aluminium, mild steel.				
10.6	Hazardous decomposition products:	Nitrogen oxides.				

SECTION 11. Toxicological information							
11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008							
Acute to	xicity:						
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure time	Results		
Oral:	-	No information available	-	No information available	-		
Dermal:	-	No information available	-	No information available	-		
Inhalation:	-	No information available	-	No information available	-		
Inhalation:	-		-				
Specific	target organ to	xicity – single expos	ure (STOT SE):				



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Trading name:	SILVER NITRATE, CRYSTALS					
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Product code:	2INP-P-X**	D	ate or co	mpliation	. 21 De	C 2022	version. 5
	Spec	cific effects		Ta	rget organ		Note
Oral:	-	No information available No information available		No information available		le -	
Dermal:	No information			No informa	ation availab	le -	
Inhalation:	No information	n available		No informa	ation availab	le -	
	1		i			i	
Aspirati	on hazard:	١	lo inform	ation avail	able.		
Irritatio	n and corrosion						
	Exposure	time Sp	ecies	Evaluation	on Me	ethod	Note
Skin corrosion/irritati	on:	in vitr	o study	-	OECD .	TEST 431	causes burns
Serious eye damage/irritatio	- n	rabbit	t	_	-		causes burns
Sensitiz	1	<i>c</i>					
Skin sensitization		formation avai					
Respiratory sens	itization: No in	formation avai	lable.				
Sympto	ms related to the p	hysical shamis	al and to	vicological	characterist	icc	
Зупрю							of perforation of the
Oral exposure:		and the stoma		atti alia tili	Jat, as well a	is a dariger	or perioration or the
Dermal exposure	e: No informat	ion available.					
Inhalation expos	ure: Mucosal irri	tations, cough,	shortnes	s of breath	, possible da	ımages: da	mage of respiratory
Eye exposure:	No informat	ion available.					
	·						
Repeate	ed dose toxicity (sul	pacute, subchro	onic, chro	onic)			
	Dose	Exposure time	Species	s N	lethod	Evaluatio	on Note
Subacute oral	No information available	No information available	No informa availab		o formation vailable	No informat available	
Subacute dermal	No information available	No information available	No informa availab		o formation vailable	No informat available	
Subacute inhalation	No information available	No information available	No informa availab		o formation vailable	No informat available	



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Trading name:		SILVER NITRATE, CRYSTALS					
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Subchronic oral	No i availa	nformation ble	No information available	No information available	No information available	No information available	on	-
Subchronic dermal	ic No information available No information available			No information available	No information available	No information available	on	-
Subchronic inhalation				No information available	No information available	No information available	on	-
Chronic oral	No i availa	nformation ble	No information available	No information available	No information available	No information available	on	-
Chronic dermal	No information available		No information available	No information available	No information available	No information available	on	-
Chronic inhalation	No i availa	nformation ble	No information available	No information available	No information available	No information available	on	-
C:t:-				(CTOT	DE).			
Specific	target	organ toxicit	· · · · · · · · · · · · · · · · · · ·	xposure (STOT				
<u> </u>		N	Specific effec	its	Target o			Note
Subacute oral Subacute derma	I		ition available				-	
Subacute uerma		T	ition available		No information			
Subchronic oral	.1011		ition available		No information		_	
Subchronic dern	nal		ition available		No information			
Subchronic inhal			ition available		No information		_	
Chronic oral			ition available		No information		_	
Chronic dermal					No information		-	
Chronic inhalatio	nronic inhalation No information available				No information	n available	-	
CMR ef	fects (ca	arcinogenicity	y; mutagenicity	y; reproductive	toxicity)			
Carcino	genicity	<i>'</i> :		No inform	ation available.			
Mutagenicity in vitro:					ation available.			
Genoto					ation available.			
Mutage					ation available.			
		genicity:			ation available.			
Reproductive toxicity:				No inform	ation available.			



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

12.1 Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	Leuciscus idus (Golden orfe)	OECD Test 203	-	0.011 mg/l (silver nitrate)
Crustacea:	EC ₅₀	48 hours	Daphnia magna (Water flea)	OECD Test 202	-	0.0082 mg/l (silver nitrate)
Algae/aquatic plants	s IC ₅₀	4 days	Pseudokirchner iella subcapitata (green algae)	-	-	0.19 mg/l (silver nitrate)
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	-	_
Crustacea:	EC ₅₀	48 hours	No information available	No information available	-	_
Algae/aquatic plants	S IC ₅₀	72 hours	No information available	No information available	-	_
Other organisms	-	-	-	-	-	-
12.2 Persistence	and degradal	oility				
Abiotic deg	radation	1			÷	
Г	Degradation h	alf-lives	Method	Evaluation		Note



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	1	·			1						
Marine water	No	information	availa	ble	No info	ormation ble	No inforravailable	matior	1	-	
Fresh water	No	information	availa	ble	No info	ormation ble	No inforravailable		1	-	
Air	No	information	availa	ble	No info	ormation ble	No information available		1	_	
Soil	No	information	availa	ble	No info	ormation ble	No inforr		1	-	
D:l	1 - 4	•									
Biodeg			, , ,								
% Degradation		Time (1ethod		luatior			Note
No information available		No ir available	nform	ation	No info	ormation ble	No inforr available		1	No info	rmation e
	ol-wat	er partition of entration			°C) Method	-	Evalua	ation	-	Note
Biocor	centr	ation factor	(BCF)								
Value		Speci	ies		Ŋ	Method	Ev	aluatio	on		Note
No information available		No in available	ıforma	ation	No info availab	ormation le	No info availabl		on	_	
Chroni	c eco	toxicity									
Value	<u> </u>	Do	se		osure me	Species	Meth	od	Evalu	ıation	Note
Chronic toxicity	on fis	sh LC ₅₀		No informavaila	mation able	No information available	No informa availabl		No inform availab		-



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Chronic		•	EC ₅₀	No information available	No inforn availa	nation ble	No informa availabl		No informatior available	-
12.4	Mol	oility in soi	1							
	Kno	wn or pred	dicted distributi	on in environm	nental c	ompart	ments:			
	No	nformatio	n available							
	Surf	ace tensio	n:							
	١	Value	°C	Concentra	ation		Metho	d		Note
	_	rmation lable	No information available	No informa available	ition	No infa	ormation ole		-	
	Ads	orption / c	desorption							:
Transpo	ort	•	coefficient 's constant	log Kow	Ev	'		Method		Note
Soil-wa	ter	No available	information	No information				formation ble	-	
Water-a	air	No available	information	No information		inform ailable	ation	No in availa	formation ble	-
Soil-air		No available	information	No information		inform ailable	ation	No in availa	formation ble	-
12.5.	Resi	ults of PBT	and vPvB asses	ssment						
			e/mixture conta very persistent	•						oaccumulative and ner.
12.6.	End	ocrine disr	rupting properti	es						
	acco	ording to F		7(f) or Commis	sion De	legated				srupting properties or Commission
12.7.	Oth	er adverse	effects							
	Biol	ogical effe	cts: Forms corre	osive mixtures	with wa	ter ever	n if dilute	d. Disc	harge into t	he environment



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SECTIO	N 13. Disposal consideration	ons		
13.1	Waste treatment method	s		
13.1.1.	Product/Packaging dispo	sal:		
	Protection. Do not dispo	the legal person authorized by the Ministry of Environmental and Nature se of the product's remains into the sewage system. Submit the remains to the he ministry in charge. Do not dispose of the packaging into the sewage system.		
13.1.2.	Waste codes/waste desig	nations according to Law:		
	The allocation of waste ic the industry and process.	lentity waste descriptions must be carried out according to the EEC, specific to		
13.1.3.	Waste treatment – releva	nt information:		
	No information available			
13.1.4.	Sewage disposal – relevant information:			
	Waste must not be disposed of into the sewage system.			
13.1.5.	Other disposal recomme	ndations:		
13.1.3.	Do not dispose of the pro	oduct's remains into the sewage system. Submit the remains to the collectors y in charge. Do not dispose of the packaging into the sewage system.		
13.1.6.	Relevant Community pro			
	-			
SECTIO	N 14 TRANSPORT INFORM	IATION		
	Transporting/shipment by			
UN num		1493		
	per shipping name:	Silver nitrate		
Transpo	rt hazard class(es):	5.1		
Packing		II .		
Environr	mentally hazardous:	yes		
Special	orecautions for user:	-		
	Transporting/shipment by	rail (RID)		
UN num	ıber:	1493		
UN prop	per shipping name:	Silver nitrate		
Transpo	rt hazard class(es):	5.1		



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yes
-
1493
Silver nitrate
5.1
II
yes
-
MDG)
1493
Silver nitrate
5.1
II
yes
-
-
AO-TI/IATA-DGR)
1493
Silver nitrate
5.1
II
yes
-

SECTI	SECTION 15. Regulatory information				
15.1	Safety, health and en	Safety, health and environmental regulations/legislation specific for the substance or mixture			
	EU regulations				
	Authorization and/or	restrictions of use			
	Authorizations:	-			
	Restrictions:	-			



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	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);			
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-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				
	None				

SECTIO	SECTION 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:	-				



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16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)					
Classification		1	Classification procedure			
-			-			
16.5.	Rele	evant H statements (num	ber and full text)			
		H272	May intensify fire; oxidiser.			
		H314	Causes severe skin burns and eye damage.			
	H:	H400	Very toxic to aquatic life.			
		H410	Very toxic to aquatic life with long lasting effects.			
16.6.	Trai	ning advice:	-			
			** "X" in the product code marks different volumes (different packagings of the product)			
16.7. Further information:		her information:	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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SECTI	ION 1: Identification of	the substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	SILVER NITI	RATE, WS	SOLUTION	
	Chemical name:	-			
	Catalogue number:	SNWS-OT-	X**		
1.2	Relevant identified use	es of the subs	tance or m	nixture and uses advised against	
	Uses:		For use	with Warthin Starry staining kit.	
	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	Emergency telephone number			
	National Protection ar	nd Rescue Dire	ectorate:	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 Regu	ulation (EC) No 12	272/2008 (CLP)				
	Hazard class and catego	ory code:		Hazard statements*:			
	Skin Corr. 1B		H314				
	Aquatic Chronic 3		H412				
2.1.2.	Additional information						
	-						
*For ful	l text of Hazard- and EU Hazard-	statements: see S	ECTION 16				
2.2	Label elements						
	Product identification: SILVER NITRATE, WS SOLUTION						
	Identification number:	-					
	Authorization number:	-					



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I	<u> </u>			
	Hazard pictograms:	GHS05		
	Signal word:	Danger		
	Hazard statements:	H314 Causes severe skin burns and eye damage. H412 Harmful to aquatic life with long-lasting effects.		
	Precautionary statements:	P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water and soap. 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			
	Endocrine Disrupting Properties:			
	No known endocrine disrupting properties			
	Results of PBT and vPvB assessment : According to the results of its assessment, this substance is not a PBT or a vPvB.			

SECTION 3. Composition/information on ingredients				
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)
7761-88-8/ 231-853-9/ 047-001-00-2	-	17 - 20 %	silver nitrate	Ox. Sol. 2; H272 Skin Corr. 1B; H314 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

SECTION 4. First aid measures			
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.	



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	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 oral cavity, drink 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:	-
4.2	Most important symptoms and ef	fects, both acute and delayed
	Following inhalation:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.
	Following skin contact:	Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking.
	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.
	Following ingestion:	Danger of gastric perforattion.
4.3	Indication of any immediate medi	cal attention and special treatment needed
	-	

SECTI	CTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	Water spray, foam, dry powder, CO ₂ or alcohol resistant foam.			
	Unsuitable extinguishing media:	Water with full jet.			
5.2	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	Nitrogen oxides (NOx). During heating or in case of fire poisonous gases are produced.			
5.3	Advice for firefighters				
	Use a self-contained open-circuit	compressed air breathing apparatus and fireproof clothing.			
5.4	Additional information				
	Do not contaminate the environm	ent 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 personal protective equipment (see Section 8).		



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	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke.		
	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, or Protection and Rescue Director	drainage system and waterways. In case of large spillage contact National rate (NPRD) on 112.		
6.3	Methods and material for containment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.		
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:	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	on personal protection equipment.		
	See Section 13 for disposal information.			

SECTIO	ION 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. Keep away from sources of ignition and heat.				
	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:		-			
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.					
7.2	Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions:		htly closed and upright set containers at res ranging from +2 to +8 °C.			



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	Packaging materials:	Manufacturer's original packaging. Avoid metal containers.
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).
7.3	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8. Exp	osure co	ntrols/pers	onal pro	otection			
8.1 Control	paramet	ers					
Substance		CA			ccupational exposure limit values/short term values		Biological limit values
				рр	m	mg/m³	
Silver (as Ag)			-	-		0.01	-
Substance name	: -						
EC No:	-	CAS No	o:	-			
DNEL	· · · · · · · · · · · · · · · · · · ·		:				
				Indus	strial		
Route of		Acute		Acute	te Chronic		Chronic
exposure:	ef	fect local	effec	t systemic		effect local	effect systemic
Oral	-		-		-		-
Inhalation	-		-		-		-
Dermal	-		-		-		-
Critical physical	paramete	ers: solubility	flamma	ability, corros	sivity:	-	-
				Consi	-	:	
Route of		Acute		Acute		Chronic	Chronic
exposure:	ef	fect local	effec	ct systemic		effect local	effect systemic
Oral	-		-		-		-
Inhalation	-		_		_		-



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Dermal				
PNEC				
Environmental protection target			PNEC	
Fresh wate	er		no information available	
Freshwate	r sediments		no information available	
Marine wa	ter		no information available	
Marine sed	diments		no information available	
Food chair	n		no information available	
Microorga	nisms in sewage treatment		no information available	
Soil (agricı	ultural)		no information available	
Air			no information available	
8.2	Exposure controls			
8.2.1.	Appropriate engineering contro	ols		
	Substance/mixture related measures to prevent exposure during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.	
	Structural measures to prevent exposure:		In accordance with Section 7.	
	Organisational measures to pre exposure:	event	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. Secure stations for rinsing eyes and showering.	
8.2.2.	Personal protection equipment			
8.2.2.1.	Eye and face protection:	levels	glasses that stick to face (EN 166) or visor in case of lower of concentration in air; protective gas mask that covers the face in case of higher levels of concentration in air.	
8.2.2.2.	Skin protection			
	Hand protection:	Protec	tive nitrile gloves, >0.11 mm thick (EN 374).	
	Other skin protection:		intistatic clothing made of natural fibers (such as cotton) ng sleeves (EN 340) and shoes that cover the entire foot.	
8.2.2.3.	Respiratory protection:		quired under normal conditions of use. Use suitable tory protective device when high concentrations are t.	
8.2.2.4.	Thermal hazards:		ormation available	
8.2.3.	Environmental exposure contro	nls		



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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

	Information on basic physical and chemical properties						
		Value	Method				
	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				
.2	Other 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 dangerous reactions known.
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 Information		classes as defined in	n Regulat	ion (EC) No 12 ⁻	72/2008		
Acute toxi				<u> </u>			
Route of exposure:	Method	Species	Dose	LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure ti	me	Results
Oral:	-	No information available		-	No informatio available	n	-
Dermal:	-	No information available		-	No informatio available	n	-
Inhalation:	-	No information available		-	No informatio available	n	-
Specific ta		xicity – single expo	sure (STC				NI .
		Specific effects		Target organ			Note
Oral:		tion available	No information available			-	
Dermal:		No information available				-	
Inhalation:	No informa	tion available	No information available			-	
Aspiration	hazard:	No	o informa	tion available.			
Irritation a	nd corrosion				:		
	Ехро	osure time	Species	Evaluati	ion Method		Note
Skin corrosion/irritation:	-	-		-	-	-	
Serious eye damage/irritation	–	_		-	-	_	
Sensitizati	on						
Skin sensitization:	-						
Respiratory sensitiz	ration: -						



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Oral exposure:		No informati	on available.				
Dermal exposure	e:	No informati	on available.				
Inhalation expos	ure:	No informati	on available.				
Eye exposure:		No informati	on available.				
Repeate	ed dos	se toxicity (sub	acute, subchro	onic, chronic)			
		Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No avai	information lable	No information available	No information available	No information available	No information available	_
Subacute dermal		information lable	No information available	No information available	No information available	No information available	—
Subacute inhalation		information lable	No information available	No information available	No information available	No information available	-
Subchronic oral		information lable	No information available	No information available	No information available	No information available	-
Subchronic dermal		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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Trading name:		SOLUTION	<u></u>		
Product code:	SNWS-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

	. 1						
	Subacute oral No information available			No information available	-		
	Subacute dermal No information available			No information available	-		
Subacut	te inhalation	No information available		No information available	-		
Subchro	onic oral	No information available		No information available	-		
Subchro	onic dermal	No information available		No information available	-		
Subchro	onic inhalation	No information available		No information available	-		
Chronic	oral	No information available		No information available	-		
Chronic	dermal	No information available		No information available	-		
Chronic	inhalation	No information available		No information available	-		
	CMR effects (c	arcinogenicity; mutagenicity; re	productive t	oxicity)			
	Carcinogenicit	y:	No information available.				
	Mutagenicity i	n vitro:	No information available. No information available. No information available. No information available. No information available.				
	Genotoxicity:						
	Mutagenicity i	n vivo:					
	Germ cell muta	agenicity:					
	Reproductive t	toxicity:					
······································	3						
	Summary of properties:	evaluation of the CMR	No informa	ation available.			
11.2.	Information or	n other hazards:					
11.2.1.		upting properties:					
		docrine disrupting properties					
11.2.2.	Other informat	tions:					
	-						

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	Leuciscus idus (Golden orfe)	-	-	0.011 mg/l (silver nitrate)		
Crustacea:	EC ₅₀	48 hours	Daphnia magna (Water flea)	-	-	0.0082 mg/l (silver nitrate)		



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Other organisms	Algae/aquatic p	olants	IC ₅₀	4 days	Pseudokirchner iella subcapitata (green algae)	-	-		0.19 mg/l (silver nitrate)
toxicity	Other organism	าร	-	-	-	-	-		-
Fish LC ₅₀ 96 hours No information available information availabl	_	erm)	Dose		e Species	Method	Evalua	ation	Note
Crustacea: EC ₅₀ 48 hours No information available information av	Fish		LC ₅₀	96 hours		information	inform		-
Algae/aquatic plants	Crustacea:		EC ₅₀	48 hours		information	inform		-
12.2 Persistence and degradability Abiotic degradation Degradation half-lives Method Evaluation No te Marine water No information available Fresh water No information available Air No information available Biodegradation Biodegradation Method Evaluation No information Available Available No information Available Available	Algae/aquatic μ	olants	IC ₅₀	72 hours		information	inform		-
Abiotic degradation Degradation half-lives Method Evaluation Note Marine water No information available No information No information available	Other organism	าร	-	-	-	-	-		-
Marine water No information available available available available available available available - No information available No information No information available No inf		c degra	adation	-	Method	Evaluatio	on		Note
Fresh water No information available No information No information No information available	Marine water				No information	No information		-	Note
Air No information available available available available available - No information available No information available - Soil No information available No information available No information No information available No information available available available available - No information available available available available available - No information available available available available - No information ava	Fresh water	No i	nformation a	available	No information			_	
Biodegradation **No information available** Biodegradation **Degradation Time (days) Method Evaluation Note No information available available available available available available available **No information available	Air	No i	nformation a	available		-		-	
% Degradation Time (days) Method Evaluation Note No information available Available Available Service Available Ava	Soil	No i	nformation a	available			on	_	
% Degradation Time (days) Method Evaluation Note No information available Available Available Service Available Ava	Biode	gradati	on						
available available available available available	% Degradati	on	Time (days)	Method	Evaluatio	on		Note
12.3 Bioaccumulative potential		1		nformation			on		
12.3 Bioaccumulative potential									
12.3 Bioaccumulative potential									
Octanol-water partition coefficient (log Kow)			•						



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												1 4	gc 12 01 10	
Trading	j nar	ne:				SIL	VER N	ITRATI	E, WS S	OLUTI	ION			
Product	t coc	de:	SNWS	S-OT-X**		Date	of co	mpilati	on:	21 Dec	2022		Version:	4
														:
Value	9	Cor	ncentrat	ion p	Н	°C	M	ethod		Evalua	ation		Note	
_		-		-		-	-		-			-		
		oncen	tration 1	factor (BCF)										
	alue			Species			Method			valuatio			Note	
No infor available		on	No availab	inform	ation	No info		on	No info	ormatic	on	-		
avanabic			avanac	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		avanab			avanac	/IC				

	Chro	onic ec	otoxicit	у										
i	\/-	l		Dana	Ехр	osure	C		N 4 - 4 l		F l		NI-t-	
	Va	iue		Dose	t	ime	She	ecies	Meth	100	EVall	uation	Note	
Chuania			C: _ L_	1.6	No :f		No	mation	No inform	_4:	No inform	4:		
Chronic	toxic	ity on	TISN	LC ₅₀	availa	mation able	availa		availab		availal		-	
Cl : -		••			No		No		No		No			
Chronic crustace		-)	EC ₅₀		mation	1	mation	inform	1	inform		-	
					availa	abie	availa	abie	availab	oie	availal	oie		
12.4	Mak	oility in	soil											
12.4				ed distributi	on in e	nvironm	nental (compart	ments:					
			ation av		011 111 6		ieritar	Jonipart	illelits.					
		ace ter		anabic										
		Value		°C	C	oncentra	ation		Metho	od			Note	
	No		No											
	information information available No information available		_											
	avai	lable	ava	ailable										
······································														
	۸۵۰	orntion) / doso	rntion										
	Aus	-	n / deso /D coef									1		
Transpo	rt		enry's co		lc	g Kow	E	vaporati	on rate	N	Method		Note	
Call		No		formation	No ir	nformatio	on N	o inform	nation	No in	ıformat	ion		
Soil-water available		ble		available		av	ailable			able		-		



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1					
Water-a	ir available information	on No information available	No information available	No information available	-
Soil-air No information available No information available No information available No information available -					
12.5	Results of PBT and vPvB a	ssessment			
	This substance/mixture co toxic (PBT), or very persist	•		•	
12.6.	Endocrine disrupting prop	erties			
12.0.	The substance/mixture do		onents considered t	o have endocrine d	isrupting properties
	according to REACH Articl Regulation (EU) 2018/605	e 57(f) or Commission	n Delegated regula		
12.7.	Other adverse effects				
	No information available				
SECTIO	N 13. Disposal considerat	ons			
13.1	Waste treatment metho	ds			
13.1.1.	Product/Packaging disp	osal:			
	Submit for disposal to the Protection.	e legal person autho	rized by the Minist	ry of Environmental	and Nature
13.1.2.	Waste codes/waste desi	gnations according to	Law:		
	Packaging that contains			taminated with haza	ardous substances
	<u> </u>				
13.1.3.	Waste treatment – relev	ant information:			
	No information available	1			
13.1.4.	Sewage disposal – relev	ant information:			
	Waste must not be disp	osed of into the sewa	ge system.		
13.1.5.	Other disposal recomme	ndations:			
	Do not dispose of the part authorized by the minist the packaging to the co	ry in charge. Do not o	dispose of the pack	aging into the sewa	



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Trading name:		SILVER NITRATE, WS	SOLUTION		
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13.1.6. Relevant Community provision	s:
-	
SECTION 14 TRANSPORT INFORMATIO	ON CONTRACTOR OF THE CONTRACTO
Transporting/shipment by road (ADR)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by rail (R	ID)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN)	
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (II	MDG)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
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



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UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

SECTI 15.1	ON 15. Regulatory information Safety, health and environmental safety.	ation nmental regulations/legislation specific for the substance or mixture
13.1	EU regulations	internal regulations, registation specific for the substance of final care
	Authorization and/or rest	rictions of use
	Authorizations:	-
	Restrictions:	-
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2	Chemical safety assessme	ent
	None	



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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 procedure 1272/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)
Classifi	cation	Classification procedure
_		-
16.5.	Relevant H statements (numb	er and full text)
	H272	May intensify fire; oxidiser.
	H314	Causes severe skin burns and eye damage.
	H: H400	Very toxic to aquatic life.
	H410	Very toxic to aquatic life with long lasting effects.
	H412	Harmful to aquatic life with long lasting effects
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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Product code:	GEL-X**	Date of compilation:	21 Dec 2022	Version:	6

SECTI	ON 1 IDENTIFICATION (OF THE SUB	STANCE/MI	IXTURE AND OF THE COMPANY/UNDERTAKING
1.1.	Product identifier			
	Trading name:	GELATIN, (GELATIN, GEL IN TRANSPORT JAR	
	Chemical name:	-		
	Catalogue number:	GEL-X**		
1.2.	Relevant identified use	es of the sub	stance or mi	xture and uses advised against
	Uses:		For use w	rith Warthin Starry staining kit.
	Uses advised against:		Only the i	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: Bi		ioGnost Ltd	
	Address:		Medjugorska 59, Zagreb	
	Telephone number: +		+385 1 2409997	
	Fax no.: +		+385 1 2404039	
	e-mail of competent person: <u>m</u>		msds@biognost.hr	
	National contact: -		-	
1.4.	Emergency telephone number			
	National Protection and Rescue Dire		rectorate:	112
	Medical information:			+385 1 2348 342
	Other information:			-

SECTIO	SECTION 2 HAZARDS INFORMATION			
2.1.	Classification of the substance or mixture			
2.1.1.	Classification (REGULATION (EC) No. 1272/2008 (CLP)			
	Hazard class and category	code:	Hazard statements*:	
	Not identified as hazardous substa	ance.	-	
2.1.2.	Additional information			
	-			
*For fu	ll text of Hazard- and EU Hazard-sta	tements: see S	ection 16	
2.2.	Classification according to EC Dire	ective Nr. 1272,	(2008 CLP)	
	Product identification:	GELATIN, GEL	. IN TRANSPORT JAR	
	Identification number: -			
	Authorization no.: -			
	Hazard pictograms:	-		



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Product code:	GEL-X**	Date of compilation:	21 Dec 2022	Version: 6

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

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

SECTIO	SECTION 4 FIRST AID MEASURES				
4.1.	Description of first aid measures				
	General notes:		-		
	Following inhalation:		No information available		
	Following skin contact:		No information available		
	Following eye contact:		No information available		
	Following ingestion:		No information available		
	Self-protection of the first	aider:	Treat symptomatically.		
4.2.	Most important symptoms	and eff	ects, both acute and delayed		
	Following inhalation:	No i	nformation available		
	Following skin contact:	No i	nformation available		
	Following eye contact:	No i	nformation available		
	Following ingestion:	No i	No information available		
4.3.	Indication of any immediate medical attention and special treatment needed				
	-	-			

SECTI	ON 5 FIREFIGHTING MEASURES
5 1	Extinguishing media



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Trading name:	GELATIN, GEL IN TRANSPORT JAR			
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	Suitable extinguishing media:	Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol-resistant foam	
	Unsuitable extinguishing media:	water jet	
5.2.	Special hazards arising from the su	ubstance or mixture	
	Hazardous combustion products: No information available		
5.3.	3. Advice for firefighters		
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. Cool closed containers exposed to fire with water spray or vapor.		
5.4.	Additional information		
	Remove sources of heat and ignition. Do not contaminate the environment with extinguishing media.		

SECTIO	CTION 6 ACCIDENTAL RELEASE MEASURES				
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personnel				
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Wear protective equipment (see Section 8).				
6.2.	Environmental precautions:				
	Do not dispose of in sewage, Protection and Rescue Direct	drainage system and waterways. In case of large spillage contact National orate (NPRD) on 112.			
6.3.	Methods and material for cor	ntainment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.			
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.			
6.3.3.	Other information:	-			
6.4.	Reference to other sections				
	-				



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Trading name:	GELATIN, GEL IN TRANSPORT JAR				
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SECTIO	ON 7 HANDLING AN STORAGE				
7.1.	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.			
	Measures to prevent aerosol and dust 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. Thoroughly wash hands after work and before eating.				
7.2.	Conditions for safe storage, including any incompatibilities				
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances.			
	Packaging materials:	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:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.			
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).			
7.3.	Specific end use(s)				
	Recommendations:				
	Industrial sector specific solutions:	-			

SECTI	SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION						
8.1.	Control parameters	Control parameters					
	Substance	CAS No	Occupational exposure limit values/short term values		Biological limit values		
			ppm	mg/m³			
-		-	-	-	No information available		
				•			



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Trading na	ıme:	GELA ⁻				TIN, GEL IN TRANSPORT JAR			
Product co	ode:	GEL-X**			Date of	f compila	tion:	21 Dec 2022	Version: 6
Substance name:	-								
EC No:	_		CAS No:	_					
DNEL									
					Ind	lustrial			
Route of		Д	cute		Acute	9		Chronic	Chronic
exposure: effect local			ffect syst	temic		effect local	effect systemic		
Oral		-		-			-		-
Inhalation		-			-		-		
Dermal		-		-			-		-
Critical physical parameters: solubility, flammabil				ility, corr	osivity:	-	-		
					Cor	nsumer			
Route of		Δ	cute		Acute	9		Chronic	Chronic
exposure:		effe	ct local	effect syst		temic		effect local	effect systemic
Oral		-		-			-		-
Inhalation		-		-			-		-
Dermal		-		-			-		-
PNEC									
Environmen	ntal prot	ection targ	get			PNEC			
Fresh water						No inforr	mation	available	
Freshwater	sedimer	nts				No inforr	mation	available	
Marine wate	er					No inforr	mation	available	
Marine sedi	ments					No information available			
Food chain						No information available			
Microorgan	isms in	sewage tre	eatment			No information available			
Soil (agricul	tural)					No information available			
Air						No information available			
8.2.	Exposu	ire control	S						
8.2.1.	Engine	ering mea	sures						
	measu	tance/mixture related Use the				ne product in well ventilated rooms. Use personal protective ment. Do not eat, drink or smoke in the workspace.			
	Structu exposu		res to preve	ent	No info	ormation available			
	_	sational m	neasures to			ization of work in order to reduce other worker's influence work process.			



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	Technical measures to prexposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.		
8.2.2.	Personal protection equi	pment			
8.2.2.1.	Eye and face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.		
8.2.2.2.	Skin protection		1		
			tive gloves must be according to the EU Directive 2016/425/EEC and ard EN 374.		
	Hand protection:		Glove material: nitrile rubber		
			Glove thickness: ≥0.50 mm Break through time: >480 min		
		Wear	r antistatic clothing made of natural fibers (such as cotton) with long		
	Other skin protection:		s (EN 13034), and shoes that cover the entire foot (EN 10335).		
8.2.2.3.	Respiratory protection:	filter f	ctive full face mask (EN 136) or half mask (EN 140) equipped with a cor organic vapors, type "A" (boiling point >65°C) acording to EN) used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No inf	ormation available		
8.2.3.	Environmental exposure controls				
	Substance/mixture relate measures to prevent exp		See Section 6		
	Structural measures to prexposure:	revent	Use modern equipment.		
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.		
	Technical measures to prexposure:	event	See Section 6		

SECTI	ON 9 PHYSICAL AND CHEMICAL PROF	PERTIES	
9.1.	Information on basic physical and che	emical properties	
		Value	Method
	Physical state:	gelatinous liquid	No information available
	Colour:	colourless	No information available
	Odour/odour threshold:	mild/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



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	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 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
9.2.	Other information		
	-		

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

11.1. Information	n on hazard classes as	defined in Reg	ulation (EC) No 1272	2/2008					
	Acute toxicity:								
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results				
Oral exposure:	No information available	_	LD ₅₀	-	_				
Dermal exposure:	No information available	-	LD ₅₀	-	-				
Inhalation No information exposure: available		-	LC ₅₀	-	-				



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	c target organ to	xicity – single	e exposure (ST	OT SE):			
		Specific et	ffects	Target organ			Note
Oral exposure:	No info	ormation avai	ilable	No informa	ition availa	ble -	
Dermal exposur	e: No info	ormation avai	ilable	No information available -			
Inhalation expo	sure: No info	ormation avai	ilable	No informa	ition availa	ble -	
Respira	atory irritation:		No inform	ation available	!		
Irritatio	on and corrosion						
	Exposi	ure time	Species	Evaluation	Metho	d	Note
Skin irritation:	-		-	-	-	-	
Eye irritation:	-		-	-	-	-	
Sensitiz							
Dermal exposur	e: No informa	tion available	e				
Inhalation exposure:	No informa	tion available	e				
скрозите.							
Sympto	oms related to th	e nhysical cl	hemical and to	vicological cha	aracteristic	ς	
Oral exposure:		mation availa		Alcological che	in acteristic.		
-							
Dermal exposure: No information a							
Inhalation expo	nhalation exposure: No information		a D I C				
-		mation availa	able				
-		mation availa	able				
Eye exposure:	No infor			onic)			
Eye exposure:	No information in the second s	(subacute, su	ubchronic, chro				
Eye exposure:	No infor		ıbchronic, chro		od	Evaluation	Note
Eye exposure:	No information of the second s	(subacute, su Exposur time	ubchronic, chronere Species	s Meth		No	Note
Eye exposure:	No information in the second s	(subacute, su Exposur time	ubchronic, chronere Species No inform	Meth No ation inform	mation	No information	Note
Eye exposure:	No informati	(subacute, su Exposur time No informa availabl	ubchronic, chronere Species No ation information availab	No ation informable availation	mation	No information available	Note -
Eye exposure: Repeat Subacute oral Subacute	No informati available No informati	(subacute, su Exposur time No informa availabl	ubchronic, chronere Species No information availab	No ation informavaila	mation	No information	Note -
Eye exposure: Repeat Subacute oral	No informati available	(subacute, su Exposur time No informa available	ubchronic, chronere Species No information availab No information information information information information information information	No information No ation information information information information	mation able mation	No information available No	-
Eye exposure: Repeat Subacute oral Subacute	No informati available No informati	(subacute, su Exposure time No information available No information available No	ubchronic, chronere Species No information availabe No information availabe No	No information inf	mation able mation	No information available No information	-



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Trading name:		GELATIN, GEL IN TRA	NSPORT JAR		
Product code:	GEL-X**	Date of compilation:	21 Dec 2022	Version: 6	5

Product code:	t code: GEL-X**			Date of compilation:		21 Dec	21 Dec 2022		ion:	6	
Subchronic oral	No i availa	info		ion	No information available		o formation ailable	No informat available	_	-	
Subchronic dermal	No i availa	nformation ble	rmation No information available		No information available			No information available		-	
Subchronic inhalation	No information available		No informati available	ion	No information available		o Formation ailable	No informat available		-	
Chronic oral	No information available		intormatio		No information available		o Formation ailable	No informat available		-	
Chronic dermal	_	No information available		ion	No information available		o Formation ailable	No informat available		-	
Chronic inhalation	No information available		No informati available	ion	No information available		o formation ailable	No informat available	_	_	
Specific	target	organ toxicit	y – repeat	ed ex	xposure (STO	T RE):					
	9		pecific effe	ects			Target orga	an		N	ote
Subacute oral		No informa	ation availa	able	N	lo infor	mation avai	lable	-		
Subacute derma	l	No informa	ation availa	able	N	lo infor	mation avai	ailable -			
Subacute inhalat	ion	No informa	ation availa	able	N	lo infor	mation ava	lable	-		

	Specific effects	Target organ	Note
Subacute oral	No information available	No information available	-
Subacute dermal	No information available	No information available	-
Subacute inhalation	No information available	No information available	-
Subchronic oral	No information available	No information available	-
Subchronic dermal	No information available	No information available	-
Subchronic inhalation	No information available	No information available	-
Chronic oral	No information available	No information available	-
Chronic dermal	No information available	No information available	-
Chronic inhalation	No information available	No information available	-

CMR effects (carcinogenicity	y, mutagenicity, reproductive toxicity)
Carcinogenicity:	Current studies on test animals did not indicate carcinogenic effects.
Mutagenicity in-vitro:	Current in vitro tests did not indicate mutagenic effects.
Genotoxicity:	No information available
Mutagenicity in-vivo:	Current in vivo tests did not indicate mutagenic effects.
Germ cell mutagenicity:	No information available
Reproductive toxicity:	No toxicity on reproductive organs was determined in reproducti organs.



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	Summary of evaluation of the CMR properties: -
11.2	Information on other hazards:
11.2.1.	Endocrine disrupting properties:
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
11.2.2.	Other informations:
	-

SECTION 12 ECOLOGICAL INFORMATION:

12.1. **Toxicity** Exposure Acute toxicity Dose **Species** Method Evaluation Note time No No information 96 hours Fish LC_{50} information available available No No information EC_{50} 48 hours information Crustacea: available available No No information Algae/aquatic plants IC_{50} 8 days information available available LC_{50} 72 hours Microorganisms Exposure Method Evaluation Chronic toxicity Dose **Species** Note time No No No information information Fish LC_{50} 96 hours information available available available No No No information information information Crustacea: EC_{50} 48 hours available available available No No No information Algae/aquatic plants IC_{50} 72 hours information information available available available



Trading name:

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

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Product c	ode:	le: GEL-X**		Da	Date of compilation:		21 Dec 2022		Versio	n: 6	
0.1	•										
Other orga	anism	าร	-	-	-	-	•	-	•	-	•
12.2. Pe	ersist	tence	and degrada	bility							
			yradation	•							
:		De	egradation ha	lf-lives		Method		Evaluatio		on Note	
Marine water		No i	No information available		No in	formation availab	le	No informat	ion av	ailable	-
Fresh wate	er	No i	nformation av	/ailable	No in	formation availab	le	No informat	ion av	ailable	-
Air		No i	nformation av	/ailable	No in	formation availab	le	No informat	ion av	ailable	-
Soil		No i	nformation av	/ailable	No in	formation availab	le	No informat	ion av	ailable	-
	iodeg										
% Degrad		_	Time (day			Method .		Evaluation			ote .
No informa available	ation		lo infor vailable	mation	No into availabl	rmation e		information ailable		No information available	
										avallable	
				<u> </u>		<u> </u>					
12.3. Bi	inacc										
			efficient: n-o		iter (log	Kow):					
		on co			eter (log °C	Kow):	1	Evaluati	on		Note
Pa	artitio	on co Con	pefficient: n-od centration information	ctanol/wa	1			Evaluation No informate available		-	Note
Pa	artitio	on co Con	pefficient: n-od centration information	ctanol/wa	°C	Method No information		No informat			Note
Pa	artitio	on co Con	pefficient: n-od centration information	ctanol/wa	°C	Method No information		No informat			Note
Value	Partition N	on co Con lo vailal	pefficient: n-od centration information ble	pH -	°C	Method No information		No informat			Note
Value - Bi	lartition N	on co Con lo vailal	centration information ole ration factor (pH - BCF)	°C	Method No information available		No informat available	cion	-	
Value - Bi Value	artitio	on co Con lo vailal	centration information ole ration factor (pH - BCF)	°C	Method No information available Method		No informat available Evaluation	ion	- - N	lote
Value - Bi Value	artitio	on co Con- lo vailab	ration factor (pH - BCF)	°C -	Method No information available Method mformation	No	No informat available Evaluation	ion	- No inform	lote
Value - Bi Value	artitio	on co Con- lo vailab	centration information ole ration factor (pH - BCF)	°C	Method No information available Method mformation	No	No informat available Evaluation	ion	- - N	lote
Value - Bi Value	artitio	on co Con- lo vailab	ration factor (pH - BCF)	°C -	Method No information available Method mformation	No	No informat available Evaluation	ion	- No inform	lote
Value - Bi Value	artitio	on co Con- lo vailab	ration factor (pH - BCF)	°C -	Method No information available Method mformation	No	No informat available Evaluation	ion	- No inform	lote
Value - Bi Value No informa available	iocor	on co Con- lo vailab ncent	ration factor (pH - BCF)	°C -	Method No information available Method mformation	No	No informat available Evaluation	ion	- No inform	lote
Value - Bi Value No informa available	iocor	on co Con- lo vailal	ration factor (Speci	pH - BCF) es formatio	°C -	Method No information available Method nformation able	Nc	No informat available Evaluation	ion	- No inform	lote



No information available

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Produc	Product code: GEL-X**			Date of compilation: 21		21 Dec 202	22	Version:	6	
				1	nformatio available	n inform availab		ailable		
Chronic toxicity on crustacea (<i>Daphnia</i>)		EC ₅₀	information i	No nformatio available	ormation information		o informa vailable	ation -		
12.4.	Mobility i	n soil								
	:		ed distributi	on in environme	ntal compa	artments:				
	No inforn	nation av	vailable							
	Surface te	ension:								
	Value		°C	Concentration	on	Metho	od		Note	
	No No information available available		ormation	No information		No information available				
Transpo	ort	on / desc A/D coet	fficient	log Kow	Evapora	ation rate	Met	:hod	N	ote
Soil-wa	No	ir	nformation	No information available	available		available No information available		-	
Water-a	air No avai		nformation	No information available					-	
Soil-air	No avai		nformation	No information No informavailable available					-	
12.5.	Results o	PBT and	d vPvB asses	ssment						
	according	to REA	CH Article 5	not contain comp 7(f) or Commission evels of 0.1% or	on Delegat					
12.6.	Endocrine	e disrupt	ing properti	es						
	according	to REA	CH Article 5	not contain comp 7(f) or Commission evels of 0.1% or	on Delegat					
12.7.	Other adv	verse eff	ects							



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SECTION	13 DISPOSAL CONSIDER	RATIONS
13.1.	Waste treatment method	ds
13.1.1.	Product/Packaging dispo	osal:
		ne legal person authorized by the Ministry of Environmental and Nature
13.1.2.	Waste codes/waste design	gnations according to Law:
	No information available	
13.1.3.	Waste treatment – releva	ant information:
	No information available	
13.1.4.	Sewage disposal – releva	ant information:
	Waste must not be dispo	osed of into the sewage system.
13.1.5.	Other disposal recomme	endations:
	authorized by the minist	roduct's remains into the sewage system. Submit the remains to the collectors ry in charge. Do not dispose of the packaging into the sewage system. Submit lectors authorized by the ministry in charge. Do not dispose of in places where
13.1.6.	Relevant Community pro	ovisions:
	-	
SECTION	14 TRANSPORT INFORM	MATION
-	Fransporting/shipment by	road (ADR)
UN numb	per:	Not subject to transport regulations.
UN prope	er shipping name:	-
Transport	hazard class(es):	-
Packing g	roup:	-
Environm	entally hazardous:	-
Special p	recautions for user:	-
-	Γransporting/shipment by	rail (RID)
UN numb	er:	Not subject to transport regulations.
UN prope	er shipping name:	-



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Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN)	
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	MDG)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by air (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: -	

SECTIO	ON 15 REGULATORY INFORMATION					
15.1.	Safety, health and enviror	Safety, health and environmental regulations/legislation specific for the substance or mixture				
	EU regulations					
	Authorization and/or restrictions of use					
	Authorizations:	-				
	Restrictions:	-				



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	Other EU regulations:	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 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2.	Chemical safety assessme	ent
	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:	-



amended by Regulation (EU) No. 2020/878

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16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)				
Classific	cation	Classification procedure			
-		-			
16.5.	Relevant H statements (num	ber 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:	HYDROQUINONE, SOLUTION					
Product code:	HQ-OT-X**	Date of compilation:	21 Dec 2022	Version:	5	

SECTI	ON 1: Identification of	the substan	ce/mixture ar	nd of the company/undertaking	
1.1.	Product identifier				
	Trade name:	HYDROQI	JINONE, SOLU	TION	
	Chemical name:	-	-		
	Catalogue number:	HQ-OT-X	**		
1.2.	Relevant identified us	es of the sub	stance or mixt	cure and uses advised against	
	Uses:		For use with	Warthin Starry kit.	
	Uses advised against:		Only the ider	ntified uses are advised	
	Reason why uses advi against:	sed	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:		BioGnost Ltd.		
	Address:		Medjugorska	59, Zagreb	
	Telephone number:		+385 1 2409	997	
	Telefax:		+385 1 2404	039	
	e-mail of competent p	erson:	msds@biogr	nost.hr	
	National contact:		-		
1.4.	Emergency telephone	numbers			
	National Protection ar	nd Rescue Di	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 Regul	Classification according to Regulation (EC) No 1272/2008 (CLP)					
	Hazard class and catego	ry code:	Hazard statement*:				
	Skin Sens. 1		H317				
	Muta. 2		H341				
	Carc. 2 H351						
2.1.2.	Additional information						
	-						
* For fu	ıll text of Hazard- and EU Hazard-s	tatements: see SE	ECTION 16				
2.2.	Label elements						
	Product identification:	oduct identification: HYDROQUINONE, SOLUTION					
	Identification number:	-					
	Authorisation number: -						



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Trade name:	HYDROQUINONE, SOLUTION					
Product code:	HQ-OT-X**	Date of compilation:	21 Dec 2022	Version:	5	

	Hazard pictograms:	GHS07 GHS08				
	Signal word:	Warning				
	Hazard statement:	H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer.				
	Precautionary statements:	P280 Wear protective gloves/protective clothing/eye/protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P308+P313 IF exposed or concerned: Get medical advice/attention.				
	Supplemetal hazard information (EU):	-				
2.3.	Other hazards	hazards				
	Endocrine Disrupting Properties: No known endocrine disrupting properties Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB.					

SECTION 3. Composition/information on ingredients							
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)			
123-31-9/ 204-617-8/ 604-005-00-4	-	1 - 2 %	hydroquinone	Acute Tox. 4; H302 Skin Sens. 1; H317 Eye Dam. 1; H318 Muta. 2; H341 Carc. 2; H351 Aquatic Acute 1; H400			

SECTIO	SECTION 4. First aid measures					
4.1.	Description of first aid measures					
	General notes:	Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. Immediately remove any clothing soiled by the product.				



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Trade name:	HYDROQUINONE, SOLUTION					
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	Following inhalation:	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.			
	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. If symptoms persist, consult a doctor.			
	Following ingestion:	DO NOT induce vomiting. If symptoms persist, consult a doctor.			
	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:	High concentration vapor inhalation may cause headache, dizziness, difficult breathing and unconsciousness.			
	Following skin contact:	Causes skin irritation, redness, swelling. Prolonged or repeated contact causes defatting and dry skin.			
	Following eye contact:	Vapors irritate eyes. Splashing may cause irritation and redness.			
	Following ingestion:	Nausea, vomiting (danger of aspiration), diarrhoea. Aspiration may cause headache, vertigo, nausea, dazed feeling-unconsciousness/coma, possible hypothermia, reactions to the heart/circulatory system such as vasodilation (flush), hypotension, arrhythmia (possible ventricular fibrillation through cardiac sensitization), danger of central respiratory paralysis or of cardiac arrest; functional disturbance to the liver and kidneys and persistent disturbance to the CNS as sequelae.			
4.3.	Indication of any immediate	medical attention and special treatment needed			
	No further relevant information available.				

SECTIO	SECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	CO ₂ , powder or water spray. Fight larger fires with water spray or alcohol resistant foam.			
	Unsuitable extinguishing media: water with full jet				
5.2.	Special hazards arising from the subs	tance or mixture			
	Hazardous by products of fire:	Incomplete combustion of the product.			
5.3.	Advice for firefighters				
	Use a self-contained open-circuit con	npressed air breathing apparatus and fireproof clothing.			
5.4.	Additional information				
	Collect contaminated firefighting water separately.				
	Do not contaminate the environment	with extinguishing media.			



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Trade name:		HYDROQUINONE, SOLUTION							
Product code:	HQ-OT-X**	Date of compilation:	21 Dec 2022	Version:	5				

SECTIO	ON 6. Accidental release mea	asures			
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency person	nel			
	Protective equipment.		Use personal protective equipment (see Section 8). Keep unprotected persons away.		
	Accident prevention methods:		Evacuate members of all non-essential personnel and those members without protective equipment. Do not breathe in vapor, ensure adequate ventilation and avoid contact with skin and eyes. Remove all sources of sparks and ignition. Do not smoke.		
	Emergency procedures:		Mark the area using proper signs.		
6.1.2.	For emergency responders:				
	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, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3.	Methods and materials for	containme	nt and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or	clay barriers.		
6.3.2.	Cleaning up:	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and 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:	Do not use tools that may cause sparks.			
6.4.	Reference to other sections				
	See Section 7 for information	on on safe	handling.		
		See Section 8 for information on personal protection equipment.			
	See Section 13 for disposal information.				

SECTIO	SECTION 7. Handling and storage					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:	Use in well ventilated storage rooms. Keep away from sources of heat and ignition. Carry out measures for preventing static electricity.				
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.				



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	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.			
	Other measures:	-			
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Th	oroughly wash hands after work and before eating.			
7.2.	Conditions for safe storage, including any incom	patibilities			
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances.			
	Packaging materials:	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:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.			
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).			
7.3.	Specific end use(s)				
	Recommendations:	-			
	Industrial sector specific solutions:	-			

SECTION 8. Exposure controls/personal protection								
8.1. Control parameters								
Substance CAS No Occupational exposure limit values Biological limit values								ological limit values
					ppm	mg/m³		
Hydroquinone 123-31-9 -/0,5 -/								
Substance:	-							
EC No:	-		CAS No:	-				
DNEL								
					Industrial			
Doute of over	Acu	ite effect Ac		cute effect	Chronic	effect	Chronic effect	
Route of exposure:		l	ocal		systemic	loc	al	systemic
Oral		-		-		-		-



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Inhalation Dermal Critical physical paragram Route of exposure Oral Inhalation Dermal PNEC Environmental pro Fresh water Freshwater sediments Marine water Marine sediments Food chain Microorganisms in	rameters: solubility, flam Acute effect local	Date of com nmability, cor	pilation: rrosivity: nsumer ffect	Chronic effect local	sys	5 nic effect		
Inhalation Dermal Critical physical pa Route of exposure Oral Inhalation Dermal PNEC Environmental pro Fresh water Freshwater sedime Marine water Marine sediments Food chain	rameters: solubility, flam Acute effect local	- nmability, cor Co Acute e syster -	rosivity: nsumer ffect	Chronic effect local	- Chron	nic effect		
Dermal Critical physical paragrams Route of exposure Oral Inhalation Dermal PNEC Environmental pro Fresh water Freshwater sediments Marine water Marine sediments Food chain	- Acute effect local	- mmability, cor Co Acute e syster -	nsumer ffect	Chronic effect local	sys			
Dermal Critical physical paragrams Route of exposure Oral Inhalation Dermal PNEC Environmental pro Fresh water Freshwater sediments Marine water Marine sediments Food chain	- Acute effect local	- mmability, cor Co Acute e syster -	nsumer ffect	Chronic effect local	sys			
Critical physical paragrams Route of exposure Oral Inhalation Dermal PNEC Environmental profesh water Freshwater sediments Marine water Marine sediments Food chain	Acute effect local	Acute e syster	nsumer ffect	Chronic effect local	sys			
Route of exposure Oral Inhalation Dermal PNEC Environmental pro Fresh water Freshwater sedime Marine water Marine sediments Food chain	Acute effect local	Acute e syster	nsumer ffect	Chronic effect local	sys			
Oral Inhalation Dermal PNEC Environmental pro Fresh water Freshwater sedime Marine water Marine sediments Food chain	local	Acute e syster -	ffect	local -	sys			
Oral Inhalation Dermal PNEC Environmental pro Fresh water Freshwater sedime Marine water Marine sediments Food chain	local	syster - -		local -	sys			
Inhalation Dermal PNEC Environmental pro Fresh water Freshwater sedime Marine water Marine sediments Food chain		-	THC	-	-	Sterrife		
Inhalation Dermal PNEC Environmental pro Fresh water Freshwater sedime Marine water Marine sediments Food chain	-	-						
PNEC Environmental pro Fresh water Freshwater sedime Marine water Marine sediments Food chain	-				_			
PNEC Environmental pro Fresh water Freshwater sedime Marine water Marine sediments Food chain								
Environmental pro Fresh water Freshwater sedime Marine water Marine sediments Food chain	tection target			-	-			
Fresh water Freshwater sedime Marine water Marine sediments Food chain	iccion larget		PNEC					
Freshwater sedime Marine water Marine sediments Food chain	<u>J</u>			mation available				
Marine water Marine sediments Food chain	ntc		No information available No information available					
Marine sediments Food chain	111.5			mation available				
Food chain				mation available				
				mation available				
I whereorganisms in	sewage treatment			mation available				
Soil (agricultural)	sewage treatment			mation available				
Air				mation available				
7.11			110 1111011	That for a variable				
8.2. Expos	ure controls							
•	priate engineering cont	trols						
Subst meas	ance/mixture related ures to prevent exposure g identified uses:	Use pe	Use personal protective equipment. Do not eat, drink or smoke in the workspace.					
Struct expos	ural measures to prever ure:	res to prevent No information available						
	nisational measures to nt exposure:	-	Organization of work in order to reduce other worker's influduring work process.					
Techr expos	ical measures to preven ure:			rkspace ventilation in els in air below permi	•			
8.2.2. Perso	nal protection equipme	nt:						
8.2.2.1. Eye a	nd face protection:	tested		safety glasses Use eq oved under appropria EU)		•		
8.2.2.2. Skin p	rotection							



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	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: Viton Glove thickness: 0.7 mm Break through time: 480 min Splash contact: Glove material: Nitrile rubber Glove thickness: 0.4 mm Break through time: 35 min
	Other skin protection:	Complete suit protecting against chemicals, flame retardant antistatic protective clothing (EN 13688). 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

SECTI	SECTION 9. Physical and chemical properties									
9.1.	Information on basic physical and	Information on basic physical and chemical properties								
		Value	Method							
	Physical state:	liquid	No information available							
	Physical state:	colourless to light brown	No information available							
	Colour:	No information available	No information available							
	Odour/odour threshold:	No information available	No information available							



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	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
).2.	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 dangerous reactions known.					
10.4.	Conditions to avoid:	No information available					
10.5.	Incompatible materials:	No information available					
10.6.	Hazardous decomposition products:	No information available					

SECTIO	SECTION 11. Toxicological information									
11.1.	Informatio	Information on hazard classes as defined in Regulation (EC) No 1272/2008								
	Acute toxicity:									
Route o		Method	Method Species		Exposure time	Results				
Oral:		No information available	rat	LD ₅₀	No information available	367.3 mg/kg (hydroquinone)				



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Trade name:				HYDRO	QUIN	IONE, SO	LUTION			
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Dermal:	No inforr available	nation	-		-		No inform available	o information 367.3 mg		
Inhalation:	No inforr available	nation	-		No information available			n No information available		
Specific t	arget organ	toxicity -	sinale e	xposure (ST	OT-SF):				
		Specific		•			organ		1	Note
Oral:	No inforr	nation ava			No		on available			
Dermal:		nation ava					on available	_		
Inhalation:	No inforr	nation ava	ilable		No	information	on available		inform lable	nation
Aspiration	n hazard:			-						
Irritation	and corrosic	on								
i .		Exposu time	re	Species	Ev	aluation	Method		N	ote
Skin corrosion/irritation					-		-	No information availab		ion available
Serious eye damage/irritation		-	_		-		_	No information availab		
Sensitizat	ion									
Skin sensitization:	-	nformation	n availa	ble						
Respiratory sensitization:	No ir	nformation	n availa	ble						
Symptom	os rolated to	physical	chomics	and toxic	ologica	al proporti	05			
Oral exposure:	nausea, d heart/circ ventricula of cardiad	vomiting (lazed feeli culatory sy ar fibrillation	danger ng-unc stem su on thro nctiona	of aspiration onsciousnes uch as vasoo ugh cardiac	n), diar ss/com dilation sensiti	rhoea. Asp a, possible (flush), hy zation), da	piration may hypothermi potension, a anger of cent	a, react rrhythm ral resp	ions to nia (po iratory	the J
Dermal exposure:	Causes sk dry skin.	kin irritatio	n, redn	ess, swelling	g. Prolo	onged or r	epeated con	tact cau	ses de	efatting and
Inhalation exposure:	breathing	and suffo	ocating.	High conce	entratio	on vapor ir	-	y cause	heada	ugh, difficult iche, malaise
Eye exposure:	•	ritate eyes ision, pho	-		use irri	tation and	redness, lac	rimatior	n, pain	, swelling,



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Repeate	ed dose toxicity (su	ıbacute, subchro	onic, chronic)			
	Dose	Exposure time	Species	Method	Evaluatio	n Note
Subacute oral	No information available	No information available	No information available	No information available	No information	on -
Subacute dermal	No information available	No information available	No information available	No information available	No information	on -
Subacute inhalation	No information available	No information available	No information available	No information available	No information	on -
Subchronic oral	No information available	No information available	No information available	No information available	No information available	on -
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	on -
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	on -
Chronic oral	No information available	No information available	No information available	No information available	No information	on -
Chronic dermal	No information available	No information available	No information available	No information available	No information	on -
Chronic inhalation	No information available	No information available	No information available	No information available	No information	on -
	1	,		,	i	i ————————————————————————————————————
Specific	target organ toxic	<u> </u>	•			
	***************************************	Specific e		Target or	<u>- </u>	Note
		No information		No information a		-
Subacute dermal		No information		No information available		-
Subacute inhalat	ion	No information		No information available		-
Subchronic oral Subchronic derm		No information No information		No information available No information available		-
						-
Subchronic inhal	auon	No information	avaliable	No information a	-	



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Chronic	oral	No information	n available	No information available	-
Chronic	: dermal	No information	n available	No information available	-
Chronic	inhalation	No information	n available	No information available	-
	CMR effects (carcine	ogenicity, mutagenici	ty, reproduct	ive toxicity)	
	Carcinogenicity:		Suspected (of causing cancer.	
	Mutagenicity in-vitr	o:	No informa	tion available	
	Genotoxicity:		No informa	tion available	
	Mutagenicity in-viv	o:	No informa	tion available	
	Germ cell mutageni	city:	Suspected	of causing genetic defects.	
	Reproductive toxici	ty:	No informa	tion available	
	Summary of evaluproperties:	uation of the CMR	No informa	tion available	
11.2.	Information on other	er hazards:			
11.2.1.	Endocrine disruptin	g properties:			
	No known endocr that affect human h	ine disrupting properealth.	erties		
11.2.2.	Other informations:				
	_				

SECTION 12. Ecologic	al information
----------------------	----------------

12.1. Toxicity

Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	fish	No information available	0.638mg/l (hydroquinone)	-
Crustacea:	EC ₅₀	48 hours	Daphnia magna	No information available	0.134 mg/l (hydroquinone)	-
Algae/aquatic plants:	IC ₅₀	72 hours	algae	No information available	0.33 mg/l (hydroquinone)	-
Other organisms:	-	-	-	-	-	_
Chronic (long-term) toxicity	Doza	Exposure time	Species	Method	Evaluation	Note



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Trade name:		HYDROQUIN	ONE, SOLUTION		
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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:	IC ₅₀	72 hours	No information available	No information available	No information available	-
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	-

Biod	eai	rad	lati	n

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

12.3. Bioaccumulative potential

Octanol-water partition coefficient (log Pow)

Value	Concentration	рН	°C	Method	Evaluation	Note
log Pow 0.59	No information available	-	-	No information available	No information available	-

Bioconcentration Factor (E	BCF)	
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Value	Species	Method	Evaluation	Note



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Trade r	name:				HY	DROQUIN	ONE, SC	LUTION			
Produc	t code:	HQ-O	T-X**	Da	ite of cor	mpilation:	21 Dec	2022	Vers	sion:	5
No info	rmation e	No info	ormatio ole	n	No info		No infavailab	ormation ble	-		
	Chronic	c ecotoxicit	у								
	Value		Dos	. i	posure time	Species	s I	Method	Eval	luation	Note
Chronic	toxicity (on fish	LC ₅₀	No infor availa	mation able	No informatio available	1	ormation ilable	No inform availat		-
	toxicity on the contract to th		EC ₅₀	No infor availa	mation able	No informatio available		ormation ilable	No inform availat		-
12.4.	Mobility Known		ed distri	oution in e	environme	ental compa	rtments:				
12.4.	Known			oution in e	environme	ental compa	rtments:				
12.4.	Known o	or predicte		oution in e	environme	ental compa	rtments:				
12.4.	Known of No information Surface	or predicte		oution in e	environme	ental compa			Method	1	Note
12.4.	Known of No information Surface	or predicte ormation av tension: Value informa	vailable	°C	environme		tration	No info		d available	Note
12.4.	Known of No information Surface	or predicte ormation av tension: Value informa	vailable	°C Io infor		Concent No informa	tration	No info			
12.4.	No info	or predicte ormation av tension: Value informa	railable	°C Io infor		Concent No informa	tration	No info			
	No info	or predicte ormation av e tension: Value informa le	railable Intion N a Introduction or perpendicular or pe	°C Io infor vailable		Concent No informa available	tration	No info	ormation	available	
Γranspo	No info	or predicted or mation average tension: Value information information deso A/D coeffice Henry's corr	railable Intion N a Introduction or perpendicular or pe	°C lo infor vailable	rmation g Kow nformatio	Concent No informa available	tration tion tion rate mation		hod	available	-
12.4. Transpo Soil-Wa Water-A	No information in the informatio	or predicted or mation average tension: Value information average tension: Value information / deso A/D coeffice Henry's corror information / deso	railable Ition N a Protion cient nstant	°C Io infor vailable log No ir available	rmation g Kow nformatio e nformatio	Concent No informa available Evapora n No infor available	tration tion tion rate mation	Met No inform	hod	available	-



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	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	
12.6.	Endocrine disrupting properties
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7.	Other adverse effects
12,7,	No information available
	The information available
SECTIO	N 13. Disposal considerations
13.1.	Waste processing methods
1211	Draduct/Delegging dispessly
13.1.1.	Product/Packaging disposal:
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.
12.1.2	Wests and a forest decimation and a second of the land
13.1.2.	Waste codes/waste designations according to Low:
	Disposal must be made according to official regulations.
13.1.3.	Waste tretment – relevant information
	No information available
13.1.4.	Sewage disposal – relevant information:
13.1.4.	Waste must not be disposed of into the sewage system.
	waste mast not be disposed of into the sewage system.
13.1.5.	Other disposal recommendations:
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.
13.1.6.	Relevant Community provisions:
	-
SECTIO	N 14. Transport information
	Transporting/shipment by road (ADR)



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Trade name:		HYDROQUIN	ONE, SOLUTION		
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UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by rail (R	ID)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
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 group:	-
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	MDG)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transport in bulk condition in accordance with Annex II. of MARPOL 73/78 and IBC Codex:	-
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:	-
Environmental hazards:	-



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

amended by Regulation (EU) No. 1907/2006

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Special precautions for user:	-
Further information: -	

15.1.	Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture
	EU regulations	
	Authorisation and/or rest	rictions on use
	Authorisations:	-
	Restrictions:	-
		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
	Other EU regulations:	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 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2.	Chemical safety assessme	ent
	None	

SECTION 16. Other information	
16.1. Indication of changes:	-



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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 1272/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)		
Classification		Classification procedure		
_		-		
16.5.	Relevant H statements (num	ber and full text)		
	H351	Suspected of causing cancer.		
	H341	Suspected of causing genetic defects.		
	H: H318	Causes serious eye damage.		
	H317	May cause an allergic skin reaction.		
	H302	Harmful if swallowed.		
	H400	Very toxic to aquatic life.		
16.6.	Training advice:	-		
16.7	From the control of t	** "X" in the product code marks different volumes (different packaging of the product)		
16.7. Further information:		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