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Trading name:		ACID SOLUTION				
Product code:	KOT-OT-X**	Date of compilation:	26 June 2019	Version:	3	

SECTI	ON 1: Identification of t	he substance	e/mixture	and of the company/undertaking			
1.1	Product identifier						
	Trading name:	ACID SOLU	TION				
	Chemical name:	-					
	Catalogue number:	KOT-OT-X*	*				
1.2	Relevant identified use	Relevant identified uses of the substance or mixture and uses advised against					
	Uses:		For preparation of impregnation solution with Warthin Starry kit				
	Uses advised against:		Only the identified uses are advised.  The product is intended for use only as an <i>in vitro</i> diagnosti				
	Reason why uses advis	sed against:					
1.3	Details of the supplier	of the safety	data shee	t			
	Supplier:		BioGnos	t Ltd.			
	Address:		Medjugo	orska 59, Zagreb			
	Telephone number:		+385 1 2	2409997			
	Telefax.:		+385 1 2	2404039			
	e-mail of competent p	erson:	msds@b	oiognost.hr			
	National contact:		-				
1.4	Emergency telephone	number					
	National Protection an	National Protection and Rescue Directorate: 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 Reg	lation (EC) No 1272/2008 (CLP)				
	Hazard class and categ	ry code: Haz	ard statements*:			
	Not identified as hazardous su	stance				
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Hazard-	tatements: see SECTION 16				
2.2	Label elements					
	Product identification:	ACID SOLUTION				
	Identification number: -					
	Authorization number:	-				
	Hazard pictograms:	-				



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	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	-	

SECTION 3. Co	SECTION 3. Composition/information on ingredients							
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)				
-	-	-	Contains no hazardous substances	-				

SECTI	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.
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.
	Following ingestion:	Rinse the mouth thoroughly with 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.
	Self-protection of the first aider:	-
4.2	Most important symptoms and eff	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.



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	Following ingestion:	Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting.
4.3	Indication of any immediate medi	cal attention and special treatment needed
	-	

SECTI	SECTION 5. Firefighting measures					
5.1	Extinguishing media	Extinguishing media				
	Suitable extinguishing media: water spray, dry powder, CO <sub>2</sub> or alcohol resistant f	oam				
	Unsuitable extinguishing media: Water with full jet					
5.2	Special hazards arising from the substance or mixture	Special hazards arising from the substance or mixture				
	Hazardous combustion products: no information available	Hazardous combustion products: no information available				
5.3	Advice for firefighters					
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof cl	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.				
5.4	Additional information	Additional information				
	Cool endangered receptacles with water spray. Collect contaminated fire fighting water contaminate the environment with extinguishing media.	er separately. Do not				

CECTI	SECTION 6. Accidental release measures				
2FC110	ION 6. Accidental release measures				
6.1	Personal precautions, protective	ve 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 member without protective equipment. Avoid breathing vapors and avoic contact with skin and eyes. Do not smoke. Keep away from ignition sources.				
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Use protective equipment; in c (see Section 8).	ase of inadequate ventilation use adequate airways protective equipment			
6.2	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3	Methods and material for containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:  Sand protective barrier or barriers made of similar materials.				



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6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.				
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).				
6.4	Reference to other sections					
	See Section 8 for information	ee Section 7 for information on safe handling. ee Section 8 for information on personal protection equipment. ee 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. Do not use tools that cause sparks. Do not smoke.			
	Measures to prevent aerosol and dust generation	on:	Secure proper ventilation.			
	Measures to protect the environment:	res to protect the environment:				
	Other measures:	Protect against electrostatic charge				
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 container well ventilated storage rooms at temperatures r from 15 to 25 °C. Protect from heat and direct s				
	Packaging materials:	Manufactu	rer's original packaging.			
	Requirements for storage rooms and vessels:	Keep away tightly clos	from food and drink. Keep the containers sed.			
	Advices for storage equipment:	must be re	e must be made of hard material; floors sistant to chemicals. There must be no drain ly leads into sewage system. Secure proper .			
	Further information on storage conditions:	and do no	ce the unused material in the storage room t use empty containers for storing other Do not store with incompatible materials on 10).			



Air

# **SAFETY DATA SHEET** BIOGNOST® According to Regulation (EC) No. 1907/2006

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Tradi	ing name:					ACID S	SOLUT	ION				
Prod	uct code:	KOT-O	Г-Х**	D	ate of	f compila	tion:	26 Jun	e 2019	Version:	3	
	:										•	
7.3	Specific e	nd use(s)										
	Recomme	endations:				-						
	Industrial	sector spe	cific solut	tions:		-						
SECT	ION 8. Expos	ure contr	ols/perso	nal protec	tion							
8.1	Control p	arameters										
						ipational (	•					
	Substance	9	CAS No V			ues/short			Biolo	gical limit values	5	
					þ	opm	mg/					
-				-		-		-				
	tance name:	-	1				l					
EC No		-	CAS No	):								
DNEL	_											
		1		T		ustrial						
Route							Chro			Chronic		
expo	sure:		effect local		effect systemic		effect local			effect systemic		
Oral Inhala	ation	-		-					-			
Derm		_		_								
	al physical pa	rameters:	solubility	l flammabili	ty corr	osivity.						
Circie	ar priyorear pa	Tarriccio.	Joid Siney 7			nsumer	<u> </u>					
Route	e of	A	cute	Acu			Chro	nic		Chronic		
expo			ct local	effect sy				ect local		effect systemic		
Oral		-		-		-			-	·		
Inhala	ation	-		-		-			-			
Derm	al	-		-		-			-			
PNEC												
Enviro	Environmental protection target				PNEC							
Fresh	Fresh water				no information available							
Fresh	Freshwater sediments					no information available						
Marin	Marine water					no information available						
Marin	ne sediments					no information available						
Food	chain					no inform	nation a	vailable				
Micro	organisms in	sewage tr	eatment			no inform	nation a	vailable				
Soil (a	agricultural)					no inform	nation a	vailable				

no information available



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	·					
8.2	Exposure controls					
8.2.1.	Appropriate engineering controls	S				
	Substance/mixture related measure prevent exposure during identified		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structural measures to prevent exposure:		In accordance with Section 7.			
	Organisational measures to preve exposure:	ent	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to prevent ex	kposure:	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:	Safety glasses that stick to face (EN 166) or visor in case of low levels of concentration in air; protective gas mask that covers entire face in case of higher levels of concentration in air.				
8.2.2.2.	Skin protection					
	Hand protection:		The protective gloves have to satisfy the specification of Regulation (EU) 2016/425 and the related standard EN 374.  Glove material: nitrile rubber  Glove thickness: 0.40 mm  Time until perforation: > 480 min			
	Other skin protection:	footwe entire imperr	everyday work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of meable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.			
8.2.2.3.	Respiratory protection:	with a	tive full face mask (EN 136) or half mask (EN 140) equipped filter for organic vapors, type "A" (boiling point >65°C) ng to EN 14387) used when concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No info	ormation available			
8.2.3.	Environmental exposure controls					
	Substance/mixture related measures to prevent exposure:	See Se	ection 6			
	Structural measures to prevent exposure:	Use mo	nodern equipment.			
	Organisational measures to prevent exposure:	Adapt workpl	the work process to the required working conditions of the lace.			



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

Information on basic physical and	chemical properties	
	Value	Method
Physical state:	liquid	No information available
Colour:	colourless	No information available
Odour:	No information available	No information available
Odor threshold:	No information available	No information available
рН:	No information available	No information available
Melting point / freezing point;	No information available	No information available
Initial boiling point and boiling range:	No information available	No information available
Flash point:	No information available	No information available
Evaporation rate:	No information available	No information available
Flammability (solid, gas):	No information available	No information available
Upper/lower flammability or explosive limits:	No information available	No information available
Vapour pressure:	No information available	No information available
Vapour density:	No information available	No information available
Relative density:	No information available	No information available
Bulk density:	No information available	No information available
Solubility(ies):	No information available	No information available
Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
Viscosity:	No information available	No information available
Explosive properties:	No information available	No information available
Oxidising properties:	No information available	No information available

SECTI	ON 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:	Avoid heat, sparks, open flames and other ignition sources.
10.5	Incompatible materials:	No further relevant information available.
10.6	Hazardous decomposition products:	No dangerous decompostion products known.

SECTIO	ON 11. Toxico	ological info	ormation							
11.1	Information	on toxicolo	gical effects							
	Acute toxici	ity:								
Route of exposure:		Method	d Species		Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mix</sub>		Exposure time		Results	
Oral: -		-	-		-		-		-	
Dermal: -		-	-		-		-		-	
Inhalation: -		-		-		-		-		
	Specific targ	get organ to	xicity – single exp	posure (S	TOT SE	):				
	Specific effects					Target org	an		Note	
Oral:	Oral: No information available				No inf	ormation ava	ilable	-		
Dermal: No information available			tion available		No information available					
Inhalati	Inhalation: No information available			No information available -						
	Aspiration h	nazard:		No information available.						
	Irritation an	d corrosion								
		Exp	osure time	Spec	ies	Evaluation	Method		Note	
Skin corrosi	on/irritation:	<b>–</b>		-		-	<b>–</b>	-		
Serious damag	s eye e/irritation	-		-	-		_	-		
	Sensitizatio	n								
Skin sensitization: No information a			o information ava	available.						
Respiratory sensitization: No information as			o information ava	ıvailable.						
		į								
	Symptoms	related to th	e physical, chem	ical and t	oxicolo	gical characte	eristics			
						9				



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Dermal exposure	<b>:</b>	No informati	on available.				
Inhalation expos	ure:	No informati	on available.				
Eye exposure:		No informati	on available.				
Repeate	ed dose	toxicity (sub	acute, subchro	onic, chronic)	ì		
		Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No availa	information able	No information available	No information available	No information available	No information available	-
Subacute dermal	No availa	information able	No information available	No information available	No information available	No information available	-
Subacute inhalation	No availa	information able	No information available	No information available	No information available	No information available	-
Subchronic oral	No availa	information able	No information available	No information available	No information available	No information available	-
Subchronic dermal	No availa	information able	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	-
Chronic oral	No availa	information able	No information available	No information available	No information available	No information available	-
Chronic dermal	No availa	information able	No information available	No information available	No information available	No information available	-
Chronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	-
Specific	target	organ toxicit	<u> </u>	xposure (STOT	RE):		
			Specific effec	cts	Target o		Note
Subacute oral			ition available		No information		
Subacute derma			ition available		No information		
	ion						
Subacute inhalat Subchronic oral	ion		tion available		No information		



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Subchronic dermal	No information available		No information available	-			
Subchronic inhalation	n 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 effect	s (carcinogenicity; mutagenicit	v: reproductive	e toxicity)				
Carcinoger		· ·	ilable data, the classification o	criteria are not met.			
Mutagenic	ty in vitro:	Based on ava	ilable data, the classification c	criteria are not met.			
Genotoxici	ty:	Based on available data, the classification criteria are not met.					
Mutagenic	ty in vivo:	Based on ava	ilable data, the classification c	criteria are not met.			
Germ cell r	nutagenicity:	Based on ava	ilable data, the classification c	criteria are not met.			
Reproduct	ve toxicity:	Based on ava	ilable data, the classification o	criteria are not met.			
Summary properties:	of evaluation of the CN	MR Based or met.	available data, the classifica	ation criteria are not			
11.2 Practical ex	neriences:						
	on observations:	No inform	mation available				
Other obse	rvations:	No inforr	nation available				
11.3 General no	tes:						
-							

SECTION 12. Ecologi	cal informat	ion				
12.1 Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC <sub>50</sub>	4 days	No information available	No information available	No information available	-
Other organisms	-	-	-	_	-	-



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Product code.		.01-01-X		Date of compila	11011. 26 Ju	ine 2019	versic	)n.
Chronic (long-t	erm)	Dose	Exposure time	Species	Method	Evalua	ation	Note
Fish		LC <sub>50</sub>	96 hours	No information available	No information available	No informat available		
Crustacea:		EC <sub>50</sub>	48 hours	No information available	No information available	No informat available		
Algae/aquatic p	olants	IC <sub>50</sub>	72 hours	No information available	No information available	No informat available		
Other organism	าร	-	-	-	-	-	-	
	tence a	nd degradab	ility					
	De	gradation ha	ılf-lives	Method	Evaluatio	on	No	ote
Marine water	No ir	nformation a	vailable	No information available	No information	on -		
Fresh water	No ir	nformation a	vailable	No information available	No information	on -		
Air	No ir	nformation a	vailable	No information available	No information	on -		
Soil	No ir	nformation a	vailable	No information	No information	on _		

Fresh water No information available No information No information	Marine water	No information available	No information available	No information available	-
Air No information available available available - No information No information	Fresh water	No information available			-
Soil No information available No information -	Air	No information available			-
available available	Soil	No information available			-

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

12.3	Bioaccumulative potenti	al				
	Octanol-water partition	coefficien	t (log Ko	w)		
Value	Concentration	рН	°C	Method	Evaluation	Note
-	-	_	-	-	-	-
	·	-	-	-	i .	



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Vá	alue		Species		١	∕lethod	l	E۱	aluatio	on		Note
No infor available		No availa	inform ible	ation				No information available		-		
	Chronic e	cotoxic	ity									
i	Value		Dose		osure ime	Spe	ecies	Meth	od	Eva	aluation	Note
Chronic	toxicity on	ı fish	LC <sub>50</sub>	No infor availa	mation able	No inforr availa	nation ible	No informa availab		No infoi avail	rmation able	-
Chronic toxicity on crustacea ( <i>Daphnia</i> )		EC <sub>50</sub>	No infor availa	mation able	No inforr availa	mation ible	No informa availab		No infoi avail	rmation able	-	
	Known or	predict	od distributi	on in c	nuironm							
	No inform	nation a		OHIHE	environini	ental c	ompart	ments:				
	No inform	nation a	vailable				ompart		d			Note
	No inform	nation a ension: N	vailable °C	C No	oncentra informa ilable	tion		Metho			_	Note
	No inform Surface te Value No information	nation a ension: N	°C o formation	C No	oncentra informa	tion	No inf	Metho			-	Note
	No inform Surface te Value No informatic available  Adsorption	nation a ension: N on in av	°C o formation vailable orption	C No	oncentra informa	tion	No inf	Metho			-	Note
Transpo	No inform Surface te Value No informatio available  Adsorptio	ension:  Non in average A/D coe	°C o formation vailable orption	No ava	oncentra informa	tion	No inf	Metho formation ole	1	Metho		Note
Transpo Soil-wat	No inform Surface te Value No informatio available  Adsorptio	ension:  Non in average A/D coelenry's coele	°C o formation vailable orption	No ava	oncentra informa ilable og Kow	tion tion Ev	No inf availal	Methodological Method	1	nforma	od	
•	No inform Surface te Value No informatio available  Adsorption ort H No avail	on / des A/D coe Henry's o	°C oformation vailable orption efficient constant	No ava	oncentra informa ilable og Kow nformation able	tion tion  Eventon No aventon No	No inf availal vaporati	Methodological Method	No ir avail:	nforma able nforma	od ation	



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	Not applic	able.				
12.6						
	No further	relevant information	available.		_	
		osal considerations				
13.1	Waste tr	eatment methods				
4044		<i></i>				
13.1.1.		Packaging disposal:				
	Submit f Protection	,	al person authorized by the Min	istry of Environment	al and Nature	
	1.70.000					
13.1.2.	Waste co	odes/waste designati	ons according to Law:			
	15 01 10	)*: Packaging that cor	ntains residual hazardous substai	nces or is contamina	ted with hazardous	
	substand					
13.1.3.	Waste tr	eatment – relevant in	formation:			
	No infor	mation available				
13.1.4.	Sewage	disposal – relevant in	formation:			
	Waste m	nust not be disposed	of into the sewage system.			
	ł.					
13.1.5.	Other di	sposal recommendat	ions:			
			t's remains into the sewage syste			
		,	charge. Do not dispose of the pa rs authorized by the ministry in o	5 5	wage system. Submit	
13.1.6.		: Community provisio	<u> </u>	Jilai ge.		
13.1.0.			ding to official regulations.			
	2.00000		amy to emela regulations.			
SECTIO	N 14 TRAN	ISPORT INFORMATI	ON			
	Transporti	ng/shipment by road	(ADR)			
UN nur		<u> </u>	Not subject to transport regu	lations		
UN pro	per shipping	g name:	_			
······	ort hazard cl		-			
·	g group:		-			
·····	nmentally ha	zardous:	-			
Special	precautions	for user:	-			



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Transporting/shipment by rail (RI	D)
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 (IN	/IDG)
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 (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: -	

SECTI	SECTION 15. Regulatory information			
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture			
	EU regulations			



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	Authorizations		
	Authorizations:	-	
	Restrictions:	-	
		EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council;	
		Regulation (EC) No. 1907/2006 of the European Parliament and Council or registration, evaluation, authorization and restriction of chemical substanc (REACH);	
	Other EU regulations:	EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer;	
	-	EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals;	
		EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants;	
		Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives	
	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	
2	Chemical safety assessme	ent	

SECTIO	ON 16. Other information			
16.1	Indication of changes:	-		
		PBT	Stable, bioaccumulative and toxic	
		vPvB	Strongly stable and strongly bioaccumulative.	
16.2	Abbreviations and acronyms:	LD <sub>50</sub>	Lethal dose, 50%	
		LC <sub>50</sub>	Lethal concentration, 50%	
		TCOJ	Specific target organ toxicity - single exposure	
16.3.	Key literature references and source of data:	-		
16.4. Classification and procedure us 1272/2008 (CLP)		sed to derive th	e classification for mixture according to Regulation (EC)	
Classification		Classification procedure		
-	-			
16.5. Relevant H statements (number		r and full text)		



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Trading name:		ACID SOLUT	ION		
Product code:	KOT-OT-X**	Date of compilation:	26 June 2019	Version:	3

	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
16.7.	ratulei illioilliauoli.	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:	10 July 2019	Version:	4

SECTI	ON 1: Identification of t	he substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	SILVER NITE	RATE, CRY	STALS	
	Chemical name:	-			
	Catalogue number:	SNP-OT-X*	*		
1.2	Relevant identified use	es of the subs	tance or n	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	dvised against: medical device, registered at the Agenc		duct is intended for use only as an <i>in vitro</i> diagnostic device, registered at the Agency for Medicinal Products and Devices and there is no reason to use it for other purposes.	
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		
	Telephone number:				
	Telefax.:				
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:		-		
1.4	Emergency telephone	number			
	National Protection an	d 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 Regulation (EC) No 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 ful	I text of Hazard- and EU Hazard-	statements: see S	ECTION 16		
2.2	Label elements				
	Product identification:	SILVER NITRATE, CRYSTALS			
	Identification number:	-			
	Authorization number:	-			



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Trading name:	SILVER NITRATE, CRYSTALS				
Product code:	SNP-P-X**	Date of compilation:	10 July 2019	Version:	4

	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	
	-	

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		

SECT	SECTION 4. First aid measures				
4.1	Description of first aid measu	res			
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.			
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.			
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.			



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Trading name:	SILVER NITR		TE, CRYSTALS		
Product code:	SNP-P-X**	Date of compilation:	10 July 2019	Version:	4

	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 medical attention and special treatment needed			
	-			

SECTI	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	Water spray, foam, dry powder, CO <sub>2</sub> 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 environment with extinguishing media.				

SECTIO	SECTION 6. Accidental release measures			
6.1	Personal precautions, protective equipment and emergency procedures			
6.1.1.	For non-emergency personnel			
	Protective equipment:	Use personal protective equipment (see Section 8).		
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. 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:			



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Trading name:	SILVER NITRAT		CRYSTALS		
Product code:	SNP-P-X**	Date of compilation:	10 July 2019	Version:	4

	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).		
6.2	Environmental precautions:		
	Do not dispose of in sewage, Protection and Rescue 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 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	CTION 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 generatio	n:	Secure proper ventilation.		
	Measures to protect the environment:	to protect the environment:			
	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:				
	Do not eat, drink or smoke in the workspace. The	oroughly was	h hands after work and before eating.		
7.2	Conditions for safe storage, including any incom	patibilities			
	Technical measures and storage conditions:	•	cool and well-ventilated place. Keep away and direct solar radiation.		
	Packaging materials:		rer's original packaging. Store away from substances.		
	Requirements for storage rooms and vessels:		from food and drink. Keep the containers sed. Protected from light.		



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Trading name:		SILVER NITRATE, (	CRYSTALS	_	
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	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	suro contr	ols/porse	nal protoc	rtion				
	parameters	ois/ perso	mai protec					
Substance		CA			cupational exposure limit alues/short term values		Bio	Biological limit values
				p	pm	mg/m <sup>3</sup>		
Silver nitrate (as A	vg)	776	1-88-8		-	0.01		-
Substance name:	-	T						
EC No:	-	CAS No	) <b>:</b>					
DNEL								
Industrial								
Route of	Acı	ute	Acu	ite		Chronic		Chronic
exposure:	effect	local	effect sy	stemic		effect local		effect systemic
Oral	-		-		-		-	
Inhalation	-		-		_		-	
Dermal	-		-		-		-	
Critical physical p	arameters: s	solubility,	flammabili	ty, corr	osivity:	-		
				Con	sumer			
Route of exposure:	Act effect	ute : local	Acu effect sy			Chronic effect local		Chronic effect systemic
Oral	-		-		-		-	
Inhalation	-		-		-		-	
Dermal	-		-		-		-	
PNEC								
Environmental pro	otection tar	get			PNEC			
Fresh water					no inforr	nation available		



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Trading name:	SILVER NITRATE, CRYSTALS				
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Freshwater sediments	no information available
Marine water	no information available
Marine sediments	no information available
Food chain	no information available
Microorganisms in sewage treatment	no information available
Soil (agricultural)	no information available
Air	no information available

8.2	Exposure controls			
8.2.1.	Appropriate engineering controls			
	Substance/mixture related measure prevent exposure during identified		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.	
	Structural measures to prevent exposure:		In accordance with Section 7.	
	Organisational measures to preven exposure:	nt	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	nt		
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.		
8.2.2.2.	Skin protection			
	Hand protection:	2016/4 full cor splash	tive gloves must be according to the EU Directive EU 25/EEC and standard EN 374.  ntact: Glove material: nitrile rubber Glove thickness: 0,11 mm Break through time:> 480 min contact: Glove material: nitrile rubber Glove thickness: 0,11 mm Break through time:> 480 min	
	Other skin protection:	Wear a	intistatic clothing made of natural fibers (such as cotton) ng sleeves (EN 340) and shoes that cover the entire foot.	



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Trading name:		SILVER NITRATE, (	CRYSTALS	<u> </u>	
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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

9.1	Information on basic physical and	chemical properties	
		Value	Method
	Physical state:	crystalline	No information available
	Colour:	colourless	No information available
	Odour:	odourless	No information available
	Odor threshold:	No information available	No information available
	pH:	5.5 -6.4 (100 g/l at 20°C)	No information available
	Melting point / freezing point;	212 ℃	No information available
	Initial boiling point and boiling range:	444 °C	No information available
	Flash point:	Not applicable	No information available
	Evaporation rate:	No information available	No information available
	Flammability (solid, gas):	Product is not flammable	No information available
	Upper/lower flammability or explosive limits:	No information available	No information available
	Vapour pressure:	No information available	No information available
	Vapour density:	No information available	No information available
	Relative density:	No information available	No information available
	Bulk density:	No information available	No information available
	Solubility(ies):	2, 192 g/l (water, 20°C)	No information available
	Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
	Auto-ignition temperature:	No information available	No information available



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	Decomposition temperature:	444 °C	No information available
	Viscosity:	No information available	No information available
	Explosive properties:	Product does not present an explosion hazard.	No information available
	Oxidising properties:	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 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.	

11.1 Inform	nation on toxicolo	gical effects				
Acute	toxicity:					
Route of exposure:	Method	Species	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mix</sub>	Exposure time	Results	
Oral:	-	No information available	-	No information available	-	
Dermal:	-	No information available	-	No information available	-	
Inhalation:	-	No information available	-	No information available	-	
Specif	ic target organ to	xicity – single expo	osure (STOT SE):			
	S	pecific effects	Target	: organ	Note	
Oral:	No informa	tion available	No information	No information available -		
Dermal:	No informa	tion available	No information	n available -		
Inhalation:	No informa	tion available	No information available			
	1		1	:		



available

available

available

available

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

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Trading name:		SILVER NITRATE, CRYSTALS						
Product code:	SNP-P-X**	Date of compilation:	10 July 2019	Version:	4			

		Exposure 1	time Sn	ecies	Evaluat	ion M	1ethod		Note
Skin		Exposure	•		Lvalaat				
corrosion/irritati	ion:	-	in vitr	o study	-	OECD	TEST 431	causes b	ourns
Serious eye damage/irritatio	n	-	rabbit		-	_		causes l	ourns
Sensitiz	zation								
Skin sensitizatio	n:	No inf	ormation avail	able.					
Respiratory sensitization: No inform			ormation avail	able.					
Sympto	oms re	lated to the pl	nysical, chemic	al and to	xicologica	al characteris	tics		
Oral exposure:	evere burns of and the stoma		ıth and th	roat, as well	as a dange	r of perfor	ration o		
Dermal exposur	e:	No informati	on available.						
Inhalation expos	ations, cough,	shortnes	s of breat	h, possible c	lamages: da	amage of I	respirat		
Eye exposure:		No informati	on available.						
Repeat	ed do	se toxicity (sub	acute, subchro	onic, chro	nic)				
		Dose	Exposure time	Species	s !	Method	Evaluati	on N	lote
Subacute oral		information ilable	No information available	No informa availab	ation i	No Information available	No informa availabl		
Subacute dermal		information ilable	No information available	No informa availab	ation i	No Information available	No informa availabl		
Subacute inhalation		information ilable	No information available	No informa availab	ation i	No Information available	No informa availabl		
Subchronic oral		information ilable	No information available	No informa availab	ation i	No Information available	No informa availabl		
Subchronic dermal		information ilable	No information available	No informa availab	ation i	No information available	No informa availabl		
Subchronic inhalation		information ilable	No information	No informa		No information	No informa	tion -	



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Trading name:		SILVER NITRATE, CRYSTALS						
Product code:	SNP-P-X**	Date of compilation:	10 July 2019	Version:	4			
			<b>, ,</b>					

Chronic oral	No i availa	nformation ble	No information available	No information available	No information available	No information available	on	-	
Chronic dermal	No i availa	information information info		No information available	No information available	No informatio available	on	-	
Chronic inhalation	No i availa	nformation ble	No information available	No information available	No information available	No informatio available	on	-	
Specific	target (	organ toxicit	y – repeated ex	posure (STOT	RE):				
<u> </u>			Specific effect	·	Target o	rgan		Note	
Subacute oral		No informa	tion available		No information	n available	-		
Subacute dermal No information available				No information	n available	-			
Subacute inhalation No information available				No information	n available	-			
Subchronic oral No information available				No information	n available	-			
Subchronic dermal No information available				No information	n available	-			
Subchronic inhalation No information available				No information	n available	-			
Chronic oral No information available				No information	n available	-			
Chronic dermal		No informa	tion available		No information	n available	-		
Chronic inhalatio	n	No informa	tion available		No information	n available	-		
CMR eff	ects (ca	rcinogenicity	y; mutagenicity	: reproductive	toxicity)				
Carcino			,, 9	· ·	ation available.				
Mutage	<u>-</u>			No inform	No information available.				
Genoto	······				No information available.				
Mutage	······································	vivo:		No inform	No information available.				
	<del>-</del>	genicity:		No inform	No information available.				
Reprodu	uctive to	oxicity:		No inform	No information available.				
Summai properti	,	evaluation	of the CM	IR No inform	ation available.				
11.2 Practica	l experi	ences:							
Classific	ation ol	bservations:		-					
Other o	bservati	ions:		-					
	General notes:								



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Trading name:		SILVER NITRATE, CRYSTALS						
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SECTION 12. E	cologi	cal informat	ion				
12.1 Toxicit	У						
Acute (short-te toxicity	rm)	Dose	Exposure time	e Species	Method	Evaluation	Note
Fish		LC <sub>50</sub>	96 hours	Leuciscus idus (Golden orfe)	OECD Test 203	<b>–</b>	0.011 mg/l (silver nitrate)
Crustacea:		EC <sub>50</sub>	48 hours	Daphnia magna (Water flea)	OECD Test 202	-	0.0082 mg/l (silver nitrate)
Algae/aquatic μ	olants	IC <sub>50</sub>	4 days	Pseudokirchner iella subcapitata (green algae)	-	-	0.19 mg/l (silver nitrate)
Other organisn	าร	-	-	-	_	-	-
Chronic (long-toxicity	erm)	Dose	Exposure time	e Species	Method	Evaluation	Note
Fish		LC <sub>50</sub>	96 hours	No information available	No information available	_	-
Crustacea:		EC <sub>50</sub>	48 hours	No information available	No information available	_	-
Algae/aquatic p	olants	IC <sub>50</sub>	72 hours	No information available	No information available	-	-
Other organism	าร	-	-	-	-	-	_
	tence a	nd degradab	ility				
	De	gradation ha	alf-lives	Method	Evaluation		Note
Marine water	No ir	nformation a	vailable	No information available	No information available	<b>–</b>	
Fresh water	No ir	nformation a	vailable	No information available	No information available	-	
Air	No information available		vailable	No information available	No information available	_	
Soil	No ir	nformation a	vailable	No information available	No information available	-	
-							
	gradatio		_				
% Degradati	on	Time (c	lays)	Method	Evaluation		Note



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Produc	rt code:							YSTAI			
	it code.	SNP-P-X**		Date	e of cor	mpilati	on:	10 Jul	y 2019	,	Version:
No info availabl	ormation le	No available	nformation	No inf availab	ormatic		No infor available		1	No inf availal	ormation ole
12.3	Bioaccumu	lative potent	ial	***************************************							
	Octanol-wa	ter partition	coefficient	(log Kow	<u>'</u> )						
Valu	e Con	centration	рН	°C	Мє	ethod		Evalu	ation		Note
-	-		-	-	-		-			-	
		ration factor				•	_				
	/alue 	Spec			Method 			valuatio			Note
No into availabl	rmation le	No i available	nformation	No info availab	ormatio ole	n	No info		on	-	
	-										
	<u>i</u>			1						i .	
	Chronic eco	otoxicity									
	Value	Do	100	posure time	Spe	ecies	Meth	nod	Evalı	uation	Note
Chronic	toxicity on f	ish LC <sub>50</sub>	No info	rmation lable	No inforn availa	nation Ible	No inform availab		No inform availal		-
	toxicity on ea ( <i>Daphnia</i> )	EC <sub>50</sub>	i i	rmation lable	No inforn availa	mation Ible	No inform availab		No inform availal		-
12.4	Mobility in		atta a et	•							
		redicted dis		environn	nental c	ompart	ments:				
		ition availabl	е								
	Surface ten				-4:		N A - + 1				NI-4-
	Value	°C		Concentra	ation		Metho	od			Note
	No information available	No informat available	ion	o informa ailable	ntion	No inf availal	formation ble	n	-		



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Trading n	ame:		SILV	'ER NITRATE, CR	YSTALS		
Product c	ode:	SNP-P-X**	Date of	compilation:	10 July 2019	Version:	4
А	dsorption	n / desorption					
Transport		A/D coefficient enry's constant	log Kow	Evaporation rate	Method	Note	
Soil-water	No availa	information able	No information available	No information available	No information available	-	
Water-air	No availa	information able	No information available	No information available	No information available	-	
Soil-air	No availa	information able	No information available	No information available	No information available	-	
Bi	iological nust be a			n water even if dilu	ted. Discharge into	the environme	nt
13.1		eatment methods	15				
13.1.1.	Product,	/Packaging disposa	ıl:				
	Protection	on. Do not dispose	of the product's re	emains into the sev	Ministry of Enviror wage system. Subm ose of the packagi	it the remains	to the
13.1.2.	Waste co	odes/waste designa	ations according to	Law:			
		cation of waste ide stry and process.	ntity waste descrip	tions must be carri	ed out according to	the EEC, speci	ific to
13.1.3.	Waste tr	eatment – relevant	information:				
	No infor	mation available					
	<u> </u>						
13.1.4.		disposal – relevant nust not be dispose					



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Trading name:		SILVER NITRATE, CRYSTALS						
Product code:	SNP-P-X**	Date of compilation:	10 July 2019	Version:	4			

13.1.5. Other disposal recommendation	ons:
	s remains into the sewage system. Submit the remains to the collectors harge. Do not dispose of the packaging into the sewage system.
13.1.6. Relevant Community provision	s:
-	
SECTION 14 TRANSPORT INFORMATIO	ON CONTRACTOR OF THE CONTRACTO
Transporting/shipment by road (	ADR)
UN number:	1493
UN proper shipping name:	Silver nitrate
Transport hazard class(es):	5.1
Packing group:	П
Environmentally hazardous:	yes
Special precautions for user:	-
Transporting/shipment by rail (R	ID)
UN number:	1493
UN proper shipping name:	Silver nitrate
Transport hazard class(es):	5.1
Packing group:	П
Environmentally hazardous:	yes
Special precautions for user:	-
Inland waterway transport (ADN)	
UN number:	1493
UN proper shipping name:	Silver nitrate
Transport hazard class(es):	5.1
Packing group:	П
Environmentally hazardous:	yes
Special precautions for user:	-
Transporting/shipment by sea (II	MDG)
UN number:	1493
UN proper shipping name:	Silver nitrate
Transport hazard class(es):	5.1
Packing group:	П
Environmentally hazardous:	yes
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-



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Trading name:		SILVER NITRATE, CRYSTALS					
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UN number:	1493
UN proper shipping name:	Silver nitrate
Transport hazard class(es):	5.1
Packing group:	п
Environmentally hazardous:	yes
Special precautions for user:	-
	·

15.1	ON 15. Regulatory information Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture			
	EU regulations				
	Authorization and/or rest	rictions of use			
	Authorizations:	-			
	Restrictions:	-			
		EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council;			
		The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH);			
	Other EU regulations:	EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer;			
		EC Regulation No. 689/2008 of the European Parliament and Council fron 17 June 2008 concerning the export and import of dangerous chemicals;			
		EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants;			
		Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives			
	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			
L5.2	Chemical safety assessme				
	None				



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Trading name:	SILVER NITRATE, CRYSTALS				
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SECTIO	CTION 16. Other information				
16.1	Indi	ication of changes:	-		
16.2	Abk	previations and acronyms:	PBT vPvB LD <sub>50</sub> LC <sub>50</sub> TCOJ	Stable, bioaccumulative and toxic Strongly stable and strongly bioaccumulative. Lethal dose, 50% Lethal concentration, 50% Specific target organ toxicity - single exposure	
16.3.		literature references and rce of data:	-		
16.4.	16.4. Classification and procedure 1272/2008 (CLP)		used to derive th	e classification for mixture according to Regulation (EC)	
Classifi	catior	١	Classification procedure		
-			-		
16.5.	Rele	evant H statements (numb	per and full text)		
		H272	May intensify fir	e; 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	ining advice:			
	16.7. Further information:		** "X" in the pro the product)	duct code marks different volumes (different packagings of	
16.7.				onsible for consequences in case of failure to comply with use or improper use of the product described in this lata sheet.	

ANNEX: Exposure scenario resulting to chemical safety assessment
-



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Trading name:		SOLUTION	<u> </u>		
Product code:	SNWS-OT-X**	Date of compilation:	09 July 2019	Version:	3

SECTI	ON 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	e identified uses are advised.	
	Reason why uses advi	sed 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 shee	t	
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:		-		
1.4	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	Classification of the substance or mixture			
2.1.1	Classification according to Reg	ulation (EC) No 12	.272/2008 (CLP)		
	Hazard class and categ	ory code:	Hazard statements*:		
	Skin Corr. 1B		H314		
	Aquatic Chronic 3		H412		
2.1.2.	Additional information				
	-				
*For ful	ll text of Hazard- and EU Hazard	-statements: see S	SECTION 16		
2.2	Label elements				
	Product identification: SILVER NITRATE, WS SOLUTION				
	Identification number:	-			
	Authorization number:	-			



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Trading name:		SILVER NITRATE, WS	SOLUTION		
Product code:	SNWS-OT-X**	Date of compilation:	09 July 2019	Version:	3

	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	
	-	

SECTION 3. Con	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	-	≤ 20 %	silver nitrate	Ox. Sol. 2; H272 Skin Corr. 1B; H314 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	

SECT	SECTION 4. First aid measures				
4.1	Description of first aid measur	res			
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.			
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.			
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.			



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Trading name:	SILVER NITRATE, WS SOLUTION		<u> </u>		
Product code:	SNWS-OT-X**	Date of compilation:	09 July 2019	Version:	3

	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 media	Indication of any immediate medical attention and special treatment needed	
	-		

SECTION 5. Firefighting measures				
5.1	Extinguishing media			
	Suitable extinguishing media:	Water spray, foam, dry powder, CO <sub>2</sub> 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 environment with extinguishing media.			

SECTION 6. Accidental release measures				
6.1	Personal precautions, protective equipment and emergency procedures			
6.1.1.	For non-emergency personnel			
	Protective equipment:	Use personal protective equipment (see Section 8).		
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke.		
	Emergency procedures:	Mark the area using proper signs.		
6.1.2.	For emergency responders:			



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Trading name:		SILVER NITRATE, WS	SOLUTION		
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	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, 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 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 See Section 8 for information See Section 13 for disposal in	on personal protection equipment.

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	n:	Secure proper ventilation.
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.
	Other measures:		-
7.1.2.	Advice on general occupational hygiene:		
	Do not eat, drink or smoke in the workspace. Th	oroughly was	sh hands after work and before eating.
7.2	Conditions for safe storage, including any incom	patibilities	
	Technical measures and storage conditions:		ghtly closed and upright set containers at ares ranging from +2 to +8 °C.
	Packaging materials:	Manufactu containers	urer's original packaging. Avoid metal s.
	Requirements for storage rooms and vessels:	Keep away tightly clo	y from food and drink. Keep the containers sed.



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	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	osuro contr	ols/porse	nal protoc	rtion					
	parameters	ois/ perso	mai protec	Lion					
Substance					ccupational exposure limit values/short term values		Bio	Biological limit values	
				þ	opm	mg/m³			
Silver (as Ag)			-		-	0.01		-	
Substance name:	-	ı				T			
EC No:	-	CAS No	:						
DNEL									
				Ind	ustrial				
Route of	Acı	ute	Acu	te		Chronic		Chronic	
exposure:	effect	local	effect sy	stemic		effect local		effect systemic	
Oral	-		-		-		-		
Inhalation	-		-		-		-		
Dermal	-		-		-		-		
Critical physical p	arameters:	solubility,	flammabili	ty, corr	osivity:	-			
				Con	sumer	<u> </u>			
Route of exposure:	_	ute : local	Acu effect sy			Chronic effect local		Chronic effect systemic	
Oral	-		-		-		-		
Inhalation	-		-		-		-		
Dermal	-		-				-		
PNEC									
Environmental pr	otection tar	get			PNEC				
Fresh water					no information available				



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Freshwater sediments	no information available
Marine water	no information available
Marine sediments	no information available
Food chain	no information available
Microorganisms in sewage treatment	no information available
Soil (agricultural)	no information available
Air	no information available

8.2	Exposure controls			
8.2.1.	Appropriate engineering controls			
	Substance/mixture related measures to		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.	
	exposure:  Organisational measures to prevent		In accordance with Section 7.	
			Organization of work in order to reduce other worker's influence during work process.	
	Technical measures to prevent exp	oosure:	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:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.		
8.2.2.2.	Skin protection			
	Hand protection:	Protect	tive nitrile gloves, >0.11 mm thick (EN 374).	
	Other skin protection:		nntistatic 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:	No info	ormation available	
8.2.3.	Environmental exposure controls			
	Substance/mixture related measures to prevent exposure:	See Se	ction 6	
	Structural measures to prevent exposure:	Use mo	odern equipment.	
	Organisational measures to prevent exposure:	Adapt workpl	the work process to the required working conditions of the ace.	



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

Information on basic physical and	chemical properties	
	Value	Method
Physical state:	liquid	No information available
Colour:	colourless	No information available
Odour:	No information available	No information available
Odor threshold:	No information available	No information available
pH:	No information available	No information available
Melting point / freezing point;	No information available	No information available
Initial boiling point and boiling range:	No information available	No information available
Flash point:	No information available	No information available
Evaporation rate:	No information available	No information available
Flammability (solid, gas):	No information available	No information available
Upper/lower flammability or explosive limits:	No information available	No information available
Vapour pressure:	No information available	No information available
Vapour density:	No information available	No information available
Relative density:	No information available	No information available
Bulk density:	No information available	No information available
Solubility(ies):	No information available	No information available
Partition coefficient: n- octanol/water (log Kow):	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
Viscosity:	No information available	No information available
Explosive properties:	No information available	No information available
Oxidising properties:	No information available	No information available

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 Iı	nformation	on toxicolo	gical effects								
	cute toxicit		<u> </u>								
Route of exposure:		Method	Species	Do	ose $LD_{50}/LC_{50}$ or $ATE_{mix}$ Exposure ti		ime Results				
Oral:		_	No informatior available	า	-	No in availa	formatio ble	n	_		
Dermal:		-	No information available	า	-	No in	formatio ble	n	-		
Inhalation	nhalation:  - No information available				-	No in availa	formatio ble	n	-		
:											
S	pecific targ	et organ to	xicity – single exp	oosure (S	TOT SE):						
		S	pecific effects		Target organ			Note			
Oral:		No informa	tion available		No information available				-		
Dermal:	Permal: No information available				No information available -						
Inhalation	•	No informa	tion available	No information available -							
A	spiration h	azard:	I	No information available.							
Iı	ritation and	d corrosion									
		Ехро	osure time	Speci	es Evaluat	ion	Method		Note		
Skin corrosion/	irritation:	-	-	-	-	-		-			
-	Serious eye damage/irritation		-	-	-	-		-			
S	ensitization	1									
Skin sensi	tization:	_									
ъ	y sensitizat	ion: -									



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Sympto	ms rela	ated to the ph	ysical, chemic	al and toxicolog	gical characterist	ics	
Oral exposure:		No informati	on available.				
Dermal exposure	<b>:</b> :	No informati	on available.				
Inhalation expos	ure:	No informati	on available.				
Eye exposure:		No informati	on available.				
	·						
Repeate	ed dose	e toxicity (sub	acute, subchro	nic, chronic)			
·		Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No availa	information able	No information available	No information available	No information available	No information available	-
Subacute dermal	No information available		No information available	No information available	No information available	No information available	-
Subacute inhalation	No information available		No information available	No information available	No information available	No information available	-
Subchronic oral	No information available		No information available	No information available	No information available	No information available	-
Subchronic dermal	No availa	information able	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	-
Chronic oral	No availa	information able	No information available	No information available	No information available	No information available	-
Chronic dermal	No availa	information able	No information available	No information available	No information available	No information available	-
Chronic No inhalation availa		information able	No information available	No information available	No information available	No information available	-
Specific	target	organ toxicit	y – repeated e	xposure (STOT	RE):		
			Specific effec	ts	Target o	rgan	Note
Subacute oral		No informa	tion available		No information	n available -	
Subacute derma		No informa	tion available		No information	n available -	



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11.3	General notes:		;				
	Other observa	uioria.					
	Other observations:		_				
	Classification of		-				
11.2	Practical exper	iences:					
	F P						
	Summary of properties:	evaluation of the CMR	No information available.				
	Reproductive t	oxicity:	No information available.  No information available.				
	Germ cell muta	agenicity:					
	Mutagenicity i	n vivo:	No information available.				
	Genotoxicity:		No information available.				
	Mutagenicity i	n vitro:	No information available.				
	Carcinogenicit	y:	No information available.				
	CMR effects (c	arcinogenicity; mutagenicity; re	eproductive toxicity)				
CHIOTIIC	. milatation	ivo information available	TVO IIIOTTIAIOTT AVAILABLE				
Chronic inhalation		No information available	No information available				
	dermal	No information available  No information available	No information available  No information available	_			
Chronic	onic inhalation	No information available	No information available				
	onic dermal	No information available	No information available				
	onic oral	No information available	No information available				
	te inhalation	No information available	No information available	<b>-</b>			

SECTION 12. Ecolog	SECTION 12. Ecological information										
12.1 Toxicity											
Acute (short-term) Dose Exposure time Species Method Evaluation Note											
Fish	LC <sub>50</sub>	96 hours	Leuciscus idus (Golden orfe)	-	-	0.011 mg/l (silver nitrate)					
Crustacea:	EC <sub>50</sub>	48 hours	Daphnia magna (Water flea)	-	-	0.0082 mg/l (silver nitrate)					



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Algae/aquatic p	olants	IC <sub>50</sub>	4 days	Pseudokirchner iella subcapitata (green algae)	-	-	0.19 mg/l (silver nitrate)
Other organism	ıs	-	-	-	-	-	-
Chronic (long-t toxicity	erm)	Dose	Exposur time	e Species	Method Evaluation		ion Note
Fish		LC <sub>50</sub>	96 hours	No information available	No information available	No informat available	
Crustacea:		EC <sub>50</sub>	48 hours	No information available	No information available	No informat available	
Algae/aquatic p	olants	IC <sub>50</sub>	72 hours	No information available	No information available	No informat available	
Other organism	ıs	-	-	-	-	-	-
		gradation h	alf-lives	Method No information	Evaluation No information		Note
10.00		edation egradation h	alf-lives	Method	Evaluatio	on	Note
Marine water	No ir	nformation a	available	available	available		
Fresh water	No ir	nformation a	available	No information available	No information available	on -	
Air	No ir	nformation a	available	No information available	No information - available		
Soil	No ir	nformation a	available	No information available	No information	on -	
Biodeg % Degradation		on Time (	dave)	Method	Evaluatio	n l	Note
No information		No ir	oays) oformation	No information	No informatio	on N	No information
available		available		available	available	а	vailable
12.3 Bioacc	umulat	tive potentia	al				
		er partition of		og Kow)			
Value		entration	рН	°C Method	Eval	uation	Note



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											Page 1.	2 01 10
Tradir	ng nar	ne:			SILVE	RN	ITRATE	, ws s	OLUTIC	N		
Produ	ıct co	de: S	NWS-OT-X**		Date o	f co	mpilatio	on:	09 July 2	2019	Versio	on:
		**************************************										
-		-	-	-	-			-			<del>-</del>	
					<u> </u>					<u> </u>		
	Biod	concentra	tion factor (BCF)									
,	Value Species				Method E			E۱	aluation		N	ote
No inf availat			o inform vailable		No inforn available	natio	'n	No info	ormation le	-		
	Chr	onic ecoto	oxicity									
	Va	lue	Dose	Expo tin		Species		Meth	nod	Evaluatio	on	Note
				No		No N		No	1	No		
Chron	ic toxic	city on fish	n LC <sub>50</sub>	information available		1				nformatic available	on -	
Ch				No		No		No		Vo		
Chroni crusta		aphnia)	EC <sub>50</sub>	inform availat	1	nforr availa	nation Ible	inform availab	1	nformatic available	on -	
			•	1	•		•		•		,	
12.4	Mol	oility in so	oil									
	Kno	wn or pre	edicted distributi	on in er	nvironmer	ntal c	ompartr	ments:				
	No	informatio	on available									
		ace tension	1									
		Value	°C	Co	ncentratio	on		Metho	od		Not	te
		rmation lable	No information available	-	nformatic lable	n	No info	ormation _				
				<u> </u>								
	Ads		desorption									
Transp	ort		coefficient y's constant	log	g Kow	Εv	/aporatio	on rate	M	ethod		Note
Soil-w	ater	No available	information	No inf availab	ormation ole		o inform ailable			ormation le	-	
Water-	-air	No available	information	No inf	ormation ole		o inform ailable	ation	No info	ormation le	-	



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						rage 13 or 10	<u> </u>			
Trading	g name:		SILVEI	R NITRATE, WS	SOLUTION		:			
Produc	t code:	SNWS-OT-X**	Date of	compilation:	09 July 2019	Version:	3			
Soil-air No information available			No information available	No information available	No information available	_				
12.5	Results of	PBT and vPvB asses	ssment							
	No inform	nation available								
12.6	Other adv	erse effects								
	No inform	nation available								
SECTIO	CTION 13. Disposal considerations									
13.1	Waste t	reatment methods								
13.1.1.	Product	/Packaging disposa	l:							
		•	egal person autho	rized by the Minis	try of Environmental	and Nature				
	Protecti	on.								
13.1.2.		odes/waste designa								
	Packagi	ng that contains res	idual hazardous s	ubstances or is co	ntaminated with haza	ardous substan	ıces			
13.1.3.		reatment – relevant	information:							
	No info	rmation available								
13.1.4.		disposal – relevant								
	Waste r	nust not be dispose	d of into the sewa	ge system.						
4245										
13.1.5.		isposal recommend					_			
					m. Submit the remair kaging into the sewa					
		caging to the collect	-			ige system. San	Sime			
13.1.6.	Relevan	t Community provis	ions:							
	-									
	:									
SECTIO	N 14 TRAI	SPORT INFORMA	TION							
	Transport	ing/shipment by roa	ad (ADR)							
UN nun			Not subject to transport regulations							
UN proj	per shippin	g name:	-							
	ort hazard c		_							



Further information:

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	:				Page 14 01 10	0
Trading name:			SILVER NITRATE, WS	SOLUTION		
Product code:	SNWS-OT-X**		Date of compilation:	09 July 2019	Version:	3
		.p		:	1	
Packing group:		-				
Environmentally ha	azardous:	-				
Special precaution	s for user:	-				
Transport	ing/shipment by rail (R	ID)				
UN number:		No	t subject to transport regu	lations		
UN proper shippin	g name:	-				
Transport hazard c	class(es):	-				
Packing group:		-				
Environmentally ha	azardous:	-				
Special precaution	s for user:	-				
Inland wa	terway transport (ADN)	)				
UN number:		No	t subject to transport regu	lations		
UN proper shippin	g name:	-				
Transport hazard c	:lass(es):	-				
Packing group:		-				
Environmentally ha	azardous:	-				
Special precaution	s for user:	-				
Transport	ing/shipment by sea (IN	ИDG	)			
UN number:		No	t subject to transport regu	lations		
UN proper shippin	g name:	-				
Transport hazard o	:lass(es):	-				
Packing group:		-				
Environmentally ha	azardous:	-				
Special precaution	s for user:	-				
Transport in bulk of MARPOL 73/78	according to Annex II and the IBC code:	-				
Transport	ing/shipment by air (IC	AO-	TI/IATA-DGR)			
UN number:		No	t subject to transport regu	lations		
UN proper shippin	g name:	-				
Transport hazard o	:lass(es):	-				
Packing group:		-				
Environmentally ha	azardous:	-				
Special precaution	s for user:	-				



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Trading name:	SILVER NITRATE, WS SOLUTION					
Product code:	SNWS-OT-X**	Date of compilation:	09 July 2019	Version:	3	

5.1	Safety, health and environmental regulations/legislation specific for the substance or mixture				
	EU regulations				
	Authorization and/or rest	rictions of use			
	Authorizations:	-			
	Restrictions:	-			
	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council;  The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH);  EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer;  EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals;  EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants;  Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives			
	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			
5.2	Chemical safety assessme	ent			
	None				

SECTION	ON 16. Other information		
16.1	Indication of changes:	-	
		PBT	Stable, bioaccumulative and toxic
			Strongly stable and strongly bioaccumulative.
16.2	Abbreviations and acronyms:	LD <sub>50</sub>	Lethal dose, 50%
		LC <sub>50</sub>	Lethal concentration, 50%
		TCOJ	Specific target organ toxicity - single exposure
16.3.	Key literature references and source of data:	-	



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Trading name:	SILVER NITRATE, WS SOLUTION					
Product code:	SNWS-OT-X**	Date of compilation:	09 July 2019	Version:	3	

16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)					
Classifi	Classification		Classification procedure			
-			-			
16.5.	Rele	evant H statements (num	ber and full text)			
	<b>H</b> :	H272 H314 H400 H410 H412	May intensify fire; oxidiser. Causes severe skin burns and eye damage. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects			
16.6.	Trai	ning 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:		GELATIN, GEL IN TRANSPORT JAR				
Product code:	GEL-OT-8	Date of compilation:	01 July 2019	Version:	4	

SECTION	ON 1: Identification of t	:he substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	GELATIN, G	EL IN TRA	NSPORT JAR	
	Chemical name:	-			
	Catalogue number:	GEL-OT-8	GEL-OT-8		
1.2	Relevant identified use	es of the subs	of the substance or mixture and uses advised against		
	Uses:		For use with Warthin Starry staining kit.		
	Uses advised against:		Only the	identified uses are advised.	
	Reason why uses advis	sed 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 shee	t	
	Supplier:		BioGnos	t Ltd.	
	Address:		Medjugo	orska 59, Zagreb	
	Telephone number:		+385 1 2	2409997	
	Telefax.:		+385 1 2	2404039	
	e-mail of competent p	erson:	msds@b	oiognost.hr	
	National contact:		-		
1.4	Emergency telephone	number			
	National Protection an	d 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 Regulation (EC) No 1272/2008 (CLP)					
	Hazard class and catego	ory code:	Hazard statements*:			
	Not identified as hazardous substance.					
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Hazard-	statements: see S	ECTION 16			
2.2	Label elements					
	Product identification:	GELATIN, GEL IN	I TRANSPORT JAR			
	Identification number:	-				
	Authorization number:	-				
	Hazard pictograms:	_				



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Trading name:		GELATIN, GEL IN TRAN			
Product code:	GEL-OT-8	Date of compilation:	01 July 2019	Version:	4

	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	-	

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)				
_	-	_	Contains no hazardous substances	-				

SECTI	ECTION 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.				
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.				
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.				
	Following ingestion:	Rinse the mouth thoroughly with 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.				
	Self-protection of the first aider:	-				
4.2	Most important symptoms and eff	fects, both acute and delayed				
	Following inhalation:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.				
	Following skin contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.				
	Following eye contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.				
	Following ingestion:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.				



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Trading name:	GELATIN, GEL IN TRANSPORT JAR				
Product code:	GEL-OT-8	Date of compilation:	01 July 2019	Version:	4

4.3	Indication of any immediate medical attention and special treatment needed
	-

SECTIO	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	water spray, dry powder, CO <sub>2</sub> or alcohol resistant foam			
	Unsuitable extinguishing media:	Water with full jet			
5.2	Special hazards arising from the sul	bstance or mixture			
	Hazardous combustion products:	no information available			
5.3	Advice for firefighters				
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.				
5.4	Additional information				
	Cool endangered receptacles with contaminate the environment with	water spray. Collect contaminated fire fighting water separately. Do not extinguishing media.			

SECTIO	ON 6. Accidental release measu	ıres			
6.1	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personnel				
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avacontact with skin and eyes. Do not smoke. Keep away from ignit sources.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Use protective equipment; in consequence (see Section 8).	ase of inadequate ventilation use adequate airways protective equipment			
6.2	Environmental precautions:				
	Do not dispose of in sewage, d Protection and Rescue Director	rainage system and waterways. In case of large spillage contact National rate (NPRD) on 112.			
6.3	Methods and material for cont	ainment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.			
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.			



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Trading name:		<u> </u>			
Product code:	GEL-OT-8	Date of compilation:	01 July 2019	Version:	4

6.3.3.	Secure proper ventilation. Do not use incompatible materials (se 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. Do not use tools that cause sparks. Do not smoke.		
	Measures to prevent aerosol and dust generation	n:	Secure proper ventilation.		
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.		
	Other measures:		Protect against electrostatic charges.		
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Th	oroughly was	sh hands after work and before eating.		
7.2	Conditions for safe storage, including any incompatibilities				
	Technical measures and storage conditions:	well ventil	ightly closed and upright set containers in a ilated storage rooms at temperatures ranging to 25 °C. Protect from heat and direct sunlight.		
	Packaging materials:	Manufactu	acturer's original packaging. way from food and drink. Keep the containers closed.		
	Requirements for storage rooms and vessels:	Keep away			
	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 stora and do not use empty containers for storing chemicals. Do not store with incompatible m (see Section 10).				
7.3	Specific end use(s)				
_	Recommendations:	-			
	Industrial sector specific solutions:	-			

#### **SECTION 8. Exposure controls/personal protection**



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Trading name:		GELATIN, GEL IN TRA	GELATIN, GEL IN TRANSPORT JAR			
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8.1 Control parameters								
Substance		CA	S No		•	exposure limit term values	Biological limit values	
				F	opm	mg/m³		
-			-		-	-	-	
Substance name:	-							
EC No:	-	CAS No	: -					
DNEL								
				Ind	lustrial			
Route of	Acu	ıte	Acut	te		Chronic	Chronic	
exposure:	effect	local	effect sys	stemic		effect local	effect systemic	
Oral	-		-		-		-	
Inhalation	-		-		-		-	
Dermal	-		-		-		-	
Critical physical para	ameters: s	olubility,	flammabilit	y, corı	rosivity:	-		
			1	Cor	sumer			
Route of		cute	Acut	te	Chronic		Chronic	
exposure:	effec	t local	effect sys	stemic	effect local		effect systemic	
Oral	-		-		-		-	
Inhalation	-		-		-		-	
Dermal	-		-				-	
PNEC								
Environmental prote	ection targ	get			PNEC			
Fresh water					no information available			
Freshwater sedimen	ts				no information available			
Marine water					no information available			
Marine sediments					no information available			
Food chain					no information available			
Microorganisms in sewage treatment					no information available			
Soil (agricultural)					no information available			
Air					no information available			
8.2 Exposui	re control	ls						
8.2.1. Appropriate engineering controls								



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Trading name:		GELATIN, GEL IN TRANSPORT JAR				
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	Substance/mixture related measure prevent exposure during identifie		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 prevexposure:	ent	Organization of work in order to reduce other worker's influence during work process.	
	Technical measures to prevent ex	xposure:	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:	Safety glasses that stick to face (EN 166) or visor in case of low levels of concentration in air; protective gas mask that covers entire face in case of higher levels of concentration in air.		
8.2.2.2.	Skin protection			
	Hand protection:	The protective gloves have to satisfy the specification of Regulation (EU) 2016/425 and the related standard EN 374.  Glove material: nitrile rubber  Glove thickness: 0.40 mm  Time until perforation: > 480 min		
	Other skin protection:	footwe entire imperr	g everyday work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of meable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.	
8.2.2.3.	Respiratory protection:	with a	tive full face mask (EN 136) or half mask (EN 140) equipped filter for organic vapors, type "A" (boiling point >65°C) ng to EN 14387) used when concentration levels exceed GVI.	
8.2.2.4.	Thermal hazards:	No info	ormation available	
8.2.3.	Environmental exposure controls			
	Substance/mixture related measures to prevent exposure:	See Se	ection 6	
	Structural measures to prevent exposure:	Use m	odern equipment.	
	Organisational measures to prevent exposure:	Adapt workpl	the work process to the required working conditions of the lace.	
	Technical measures to prevent exposure:	See Se	ection 6	

#### **SECTION 9. Physical and chemical properties**

9.1 Information on basic physical and chemical properties



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Trading name:	GELATIN, GEL IN TRANSPORT JAR				
Product code:	GEL-OT-8	Date of compilation:	01 July 2019	Version:	4

		Value	Method
	Physical state:	gelatinous liquid	No information available
	Colour:	colourless	No information available
	Odour:	mild	No information available
	Odor threshold:	No information available	No information available
	pH:	No information available	No information available
	Melting point / freezing point;	No information available	No information available
	Initial boiling point and boiling range:	No information available	No information available
	Flash point:	No information available	No information available
	Evaporation rate:	No information available	No information available
	Flammability (solid, gas):	No information available	No information available
	Upper/lower flammability or explosive limits:	No information available	No information available
	Vapour pressure:	No information available	No information available
	Vapour density:	No information available	No information available
	Relative density:	No information available	No information available
	Bulk density:	No information available	No information available
	Solubility(ies):	No information available	No information available
	Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	Viscosity:	No information available	No information available
	Explosive properties:	No information available	No information available
	Oxidising properties:	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 (room temperature).				
10.3	Possibility of hazardous reactions:	No information available				
10.4	Conditions to avoid:	No information available				
10.5	Incompatible materials:	No information available				
10.6	Hazardous decomposition products:	No information available				



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Trading name:	GELATIN, GEL IN TRANSPORT JAR				
Product code:	GEL-OT-8	Date of compilation:	01 July 2019	Version:	4

11.1	Information	n on toxicological effects								
	Acute toxicit	ty:								
Route exposu		Method	Species	Do	se LD <sub>50</sub> /LC <sub>50</sub> o	r E	Exposure tim	ne Results		
Oral:		No information available	_		nformation lable		_	-		
Derma	l•	No information available	_		nformation lable		_	-		
Inhalat	ion.	No information available	-		nformation lable		_	_		
	Specific targ	et organ toxicity -	- single expo	sure (S	TOT SE):					
		Specific		•		et orgar	1	Note		
Oral:		No information av			No information			-		
Derma	l:	No information av	ailable		No information available -			_		
Inhalat	ion:	No information av	ailable	No information available -				_		
	·									
	Aspiration h	azard:	No	inforn	nation availabl	le.				
	•									
	Irritation and	d corrosion								
		Exposure t	ime	Speci	es Evalu	uation	Method	Note		
Skin corrosi	ion/irritation:	-	-		-		-	-		
Seriou: damag	s eye ge/irritation	-	-		-		-	-		
	Sensitization									
Skin se			mation availa	hle						
			mation availa							
	atory serisitizat	110 111011	Tiddion availa							
		elated to the nhys	ical, chemica	l and t	oxicological ch	naracteri	stics			
	Symptoms r	Clated to the priva	,		<i>y</i>					
Respira		No information	available.		No information available.					
Respira Oral ex	Symptoms r kposure: I exposure:	No information								
Respira Oral ex	rposure:	No information	available.							



Subchronic inhalation

Chronic oral

Chronic dermal

No information available

No information available

No information available

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Trading name:	GELATIN, GEL IN TRANSPORT JAR				
Product code:	GEL-OT-8	Date of compilation:	01 July 2019	Version:	4

Repeate	ed dose toxicity (su	bacute, subchro	onic, chronic)			
	Dose	Exposure time	Species	Method	Evaluation	n Note
Subacute oral	No information available	No information available	No information available	No information available	No information available	on -
Subacute dermal	No information available	No information available	No information available	No information available	No information available	on -
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	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	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 available	on -
Specific	target organ toxic		-			-
		Specific effec	cts	Target o		Note
Subacute oral No information available				No information		-
Subacute derma		ation available		No information available  No information available		-
Subacute inhalat Subchronic oral		ation available		No information		-
Subchronic orai		ation available		No information		-
Subcilionic derm	iai ino intorm	auon avallable		ino iniormatioi	i avaliable	-

No information available

No information available

No information available



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Trading name:		GELATIN, GEL IN TRANSPORT JAR			
Product code:	GEL-OT-8	Date of compilation:	01 July 2019	Version:	4

Chron	ic inhalation	No information available	No information available -				
	CMR effects (c	carcinogenicity; mutagenicit	y; reproductive toxicity)				
	Carcinogenicit	:y:	Based on available data, the classification criteria are not met.				
	Mutagenicity i	in vitro:	Based on available data, the classification criteria are not met.				
	Genotoxicity:		Based on available data, the classification criteria are not met.				
	Mutagenicity i	in vivo:	Based on available data, the classification criteria are not met.				
	Germ cell mut	agenicity:	Based on available data, the classification criteria are not met.				
	Reproductive 1	toxicity:	Based on available data, the classification criteria are not met.				
		·					
	Summary of properties:	evaluation of the CN	MR Based on available data, the classification criteria are not met.				
11.2	Practical experiences:						
	Classification of	observations:	No information available				
	Other observa	tions:	No information available				
11.3	General notes:	:					
	-						

SECTION 12. Ecologi	SECTION 12. Ecological information								
12.1 Toxicity									
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note			
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-			
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-			
Algae/aquatic plants	IC <sub>50</sub>	4 days	No information available	No information available	No information available	-			
Other organisms	-	_	-	-	-	-			
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note			
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-			



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Tradina	ı nama:				<u></u>	ELATIN, GEL II	I TD A	NCDODI	· IAP	Page 11 of 10	0
Trading name:  Product code: GEL-OT-8					-				Version:	1	
Product code: GEL-O1-8		U	ate of compila	ion:	01 July	/ 2019	version:	4			
Crustace	ea:		EC <sub>50</sub>	48 hours		No information available	No infori availa	mation able	No informatio available	n -	
Algae/a	quatic pla	ınts	IC <sub>50</sub>	72 hours		No information available	No infori availa	mation able	No informatio available	n -	
Other or	rganisms		-	-	-		-		-	-	
12.2	Persister	nce ar	nd degrada	bility							
	Abiotic o	degra	dation								
		De	gradation h	alf-lives		Method		Evaluation	1	Note	
Marine v	water	No in	nformation a	available		information ilable	No ir availa	nformation able	-		
Fresh wa	ater	No in	nformation a	available		information ilable	No information available		-		
Air No information a		available		information ilable	on No information available		-	-			
Soil No information available		available		information ilable	No information available		-	-			
	Biodegra	adatio	on								
% Dec	gradation		Time (	days)		Method		Evaluation	1	Note	
No infor	mation			formation		information ilable	No in	nformation able		information iilable	
12.3	Rioaccur	mulat	ive potentia	al .	•				·		
5			r partition o		loa K	ow)					
Value			ntration	рН	°C	Method		Evalua	ation	Note	
-	-			-	-	-		-	-	_	
											_
	Bioconce	entrat	tion factor (	BCF)							
Vá	alue		Speci	es		Method		Evaluatio	on	Note	
No infor		N <sub>e</sub>	o in vailable	formation		No information N		No information - available			



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Trading name:		GELATIN, GEL IN TRANSPORT JAR				
Product code: G	GEL-OT-8	Date of compilation:	01 July 2019	Version:	4	

	Chro	onic ecoto	xicity							
	Val		Dose	Exposure time	Species	Meth	od	Evaluation	Note	
Chronic	toxic	ity on fish	LC <sub>50</sub>	No information available	No information available	No informa availabl	ition i	No nformation available	-	
Chronic crustac		-	EC <sub>50</sub>	No information available	No information available	No informa availabl	ition i	No nformation available	-	
12.4	Mob	oility in soi	l							
	Kno	wn or pred	dicted distributi	on in environme	ental compar	tments:				
	No i	nformatio	n available							
	Surf	ace tensio	n:	ı						
		/alue	°C	Concentrat	tion	Metho	d		Note	
	No No information available available		information	No informat available		No information available		-	-	
	Adso	orption / c	desorption							
Transpo	ort	-	coefficient 's constant	log Kow	Evaporat	ion rate	Me	ethod	Note	
Soil-wa	ter	No available	information	No informatio available	n No inforr available			ormation le	-	
Water-	air	No available	information	No informatio available	n No inforr available	No information available		ormation le	-	
Soil-air		No available	information	No informatio available	n No inforr available	nation	No info	ormation le	-	
12.5	Resu	ults of PBT	and vPvB asses	ssment						
	Not	applicable	2.							
		er adverse	offocts							
12.6	Othe	er agverse	enects							



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Trading name:	GELATIN, GEL IN TRANSPORT JAR					
Product code:	GEL-OT-8	Date of compilation:	01 July 2019	Version:	4	

SECTIO	N 13. Disposal consideration	s			
13.1	Waste treatment methods				
13.1.1.	Product/Packaging disposal	:			
	Submit for disposal to the le Protection.	egal person authorized by the Ministry of Environmental and Nature			
13.1.2.	Waste codes/waste designa	itions according to Law:			
		idual hazardous substances or is contaminated with hazardous substances			
13.1.3.	Waste treatment – relevant	information:			
	No information available				
13.1.4.	Sewage disposal – relevant	information:			
	Waste must not be dispose	d of into the sewage system.			
13.1.5.	Other disposal recommend	ations:			
	authorized by the ministry i	uct's remains into the sewage system. Submit the remains to the collectors n charge. Do not dispose of the packaging into the sewage system. Submit tors authorized by the ministry in charge.			
13.1.6.	Relevant Community provis	ions:			
	Disposal must be made acc	cording to official regulations.			
SECTIO	N 14 TRANSPORT INFORMA				
	Transporting/shipment by roa	ad (ADR)			
UN num	ber:	Not subject to transport regulations			
	er shipping name:	-			
	rt hazard class(es):	-			
Packing	group:	-			
Environr	nentally hazardous:	-			
Special	precautions for user:	-			
	Transporting/shipment by rai				
UN num		Not subject to transport regulations			
	per shipping name:	-			
······	rt hazard class(es):	-			
Packing		-			
Environr	nentally hazardous:	-			



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Trading name:					
Product code:	GEL-OT-8	Date of compilation:	01 July 2019	Version:	4

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

SECTI	ON 15. Regulatory info	N 15. Regulatory information					
15.1	Safety, health and env	afety, health and environmental regulations/legislation specific for the substance or mixture					
	EU regulations						
	Authorization and/or r	restrictions of use					
	Authorizations:	-					
	Restrictions:	-					



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Trading name:		NSPORT JAR			
Product code: GEL-OT-8		Date of compilation:	01 July 2019	Version:	4

	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives		
	Information according 199 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 assessmen	nt		
	None			

SECTIO	ON 16. Other information				
16.1	Indication of changes:	-			
		PBT vPvB	Stable, bioaccumulative and toxic Strongly stable and strongly bioaccumulative.		
16.2	Abbreviations and acronyms:	LD <sub>50</sub> LC <sub>50</sub>	Lethal dose, 50% Lethal concentration, 50%		
		TCOJ	Specific target organ toxicity - single exposure		
16.3.	Key literature references and source of data:	_			
16.4.	Classification and procedure us 1272/2008 (CLP)	ed to derive the	e classification for mixture according to Regulation (EC)		
Classifi	cation	Classification procedure			
_	-	-			
16.5.	Relevant H statements (number	and full text)			
	H:				
16.6.	Training advice: -				



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Trading name:		<u></u>			
Product code:	GEL-OT-8	Date of compilation:	01 July 2019	Version:	4

		** "X" in the product code marks different volumes (different packagings 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
-



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Trade name:		HYDROQUIN	IONE, SOLUTION		
Product code:	HQ-OT-X** Date of compilation:		01 July 2019	Version:	4

SECTI	ON 1: Identification of	the substan	ce/mixture a	nd of the company/undertaking	
1.1.	Product identifier	ntifier			
	Trade name:	HYDROQI	JINONE, SOLI	JTION	
	Chemical name:	-			
	Catalogue number:	HQ-OT-X	<b>**</b>		
1.2.	Relevant identified use	es of the sub	stance or mix	ture and uses advised against	
	Uses:		For use with	Warthin Starry kit.	
	Uses advised against:		Only the ide	entified uses are advised	
	Reason why uses advi against:	sed		is intended for use only as an <i>in vitro</i> diagnostic medical there is no reason to use it for other purposes	
1.3.	Details of the supplier	of the safet	y data sheet		
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax:		+385 1 2404	1039	
	e-mail of competent p	erson:	msds@biog	ognost.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 Regulation (EC) No 1272/2008 (CLP)					
	Hazard class and categ	ory code:	Hazard statement*:			
	Skin Sens. 1		H317			
	Muta. 2		H341			
	Carc. 2		H351			
2.1.2.	Additional information					
	-					
* For fu	ll text of Hazard- and EU Hazard	-statements: see SI	ECTION 16			
2.2.	Label elements					
	Product identification:	HYDROQUINOI	NE, SOLUTION			
	Identification number:	-				
	Authorisation number:	-				



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Trade name:	HYDROQ		ONE, SOLUTION		
Product code:	HQ-OT-X**	Date of compilation:	01 July 2019	Version:	4

	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. P308+P313 IF exposed or concerned: Call a POISON CENTER or doctor.
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
	-	

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	-	< 2 %	hydroquinone	Acute Tox. 4; H302 Skin Sens. 1; H317 Eye Dam. 1; H318 Muta. 2; H341 Carc. 2; H351 Aquatic Acute 1; H400		

SECTI	SECTION 4. First aid measures					
4.1.	Description of first aid me	asures				
	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.				
	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.				



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Tra	de name:		HYDROQUIN	ONE, SOLUTION		
Pro	duct code:	HQ-OT-X**	Date of compilation:	01 July 2019	Version:	4

	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 a	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.		

SECTI	SECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	CO <sub>2</sub> , 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 su	bstance or mixture			
	Hazardous by products of fire:	Incomplete combustion of the product.			
5.3.	Advice for firefighters				
	Use a self-contained open-circuit c	ompressed air breathing apparatus and fireproof clothing.			
5.4.	Additional information				
	Collect contaminated firefighting water separately.  Do not contaminate the environment with extinguishing media.				

SECTIO	SECTION 6. Accidental release measures			
6.1.	Personal precautions, protective equipment and emergency procedures			
6.1.1.	For non-emergency personnel			
	Protective equipment:	Use personal protective equipment (see Section 8). Keep unprotected persons away.		



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Trade name:	HYDROQUINONE, SOLUTION					
Product code:	HQ-OT-X** Date of compilation:		01 July 2019	Version:	4	

	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 responde	rs:				
	Use protective equipmen (see Section 8).	t; in case of i	nadequate ventilation use adequate airways protective equipment			
6.2.	Environmental precaution	ns:				
	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 containment and cleaning up					
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or o	clay barriers.			
6.3.2.	Cleaning up:	cleaner c imperme rooms ur the Minis	spillage, and then collect with an electrically protected vacuum or by wet-brushing and place the waste material in tightly closed able containers. Store the substance in well ventilated storage ntil disposal. Submit for disposal to the legal persons authorized by stry of Environmental and Nature Protection. After disposal of the wash the area and and involved materials with water.			
6.3.3.	Other information:	Do not u	se tools that may cause sparks.			
6.4.	Reference to other sectio	ns				
	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.					

SECTIO	CTION 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.			
	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 incompatibili	ties			



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Trade name:		HYDROQUIN	ONE, SOLUTION		
Product code:	HQ-OT-X** Date of compilation:		01 July 2019	Version:	4

	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.	Contro	ol para	arameters							
Substance		CAS No		•	Occupational exposure limit values/short term values		Biological limit values			
						ppm	r	mg/m³		
Hydroq	uinone			123-31	-9	-		0.5	-	
Substan	nce:	-								
EC No: - CAS No: -										
DNEL										
						Industrial				
Route o	of exposi	ure:				cute effect systemic		Chronic effect local		Chronic effect systemic
Oral			-		-		-			-
Inhalatio	on		-		-		-			-
Dermal			-		-		-			-
Critical <sub>I</sub>	physical	paran	neters: s	olubility, flan	nmabili	ty, corrosivity:		-		
	Consumer									
Pouto	of ovnes	uro:	Acu	te effect	Ad	cute effect		Chronic e	effect	Chronic effect
Route o	n exposi	ure.		ocal		systemic		local		systemic
Oral			-		-		-			-



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						Page	6 of 1/	
Trade na	me:		НҮГ	DROQUIN	ONE, SOLUTION			
Product (	code:	HQ-OT-X**	Date of com	pilation:	01 July 2019	Version:	4	
							•	
Inhalation	1	-	-		-	-		
Dermal		-	-		-	-		
PNEC								
Environme	ental prot	tection target		PNEC				
Fresh wat	er			No infor	mation available			
Freshwate	er sedime	nts		No infor	mation available			
Marine wa	ater			No infor	mation available			
Marine se	diments			No infor	mation available			
Food chai	in			No infor	mation available			
Microorga	anisms in	sewage treatment		No information available				
Soil (agric	cultural)			No information available				
Air				No information available				
8.2.	Exposi	ure controls						
8.2.1.	Appro	priate engineering cor	ntrols					
	measu	ance/mixture related ires to prevent exposu g identified uses:	r <u>a</u> .	rsonal prot rkspace.	ective equipment. D	Oo not eat, drink	or smoke in	
	Structi exposi	ural measures to preve ure:	nt No info	ormation av	vailable			
		isational measures to nt exposure:		Organization of work in order to reduce other worker's in during work process.			s influence	
	Techn exposi	ical measures to preve ure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.				
8.2.2.	Persor	nal protection equipme	ent:					
8.2.2.1.	Eye an	nd face protection:	tested	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU)				
8.2.2.2.	Skin p	rotection						



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Trade name:		HYDROQUIN	ONE, SOLUTION		
Product code:	HQ-OT-X**	Date of compilation:	01 July 2019	Version:	4

	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 chemical properties					
		Value	Method			
	Physical state:	liquid	No information available			
	Colour:	colourless to light brown	No information available			
	Odour:	No information available	No information available			
	Odour threshold:	No information available	No information available			
	pH:	No information available	No information available			



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Trade name:					
Product code:	HQ-OT-X**	Date of compilation:	01 July 2019	Version:	4

Melting point / freezing point;	No information available	No information available
Initial boiling point and boiling range:	No information available	No information available
Flash point:	No information available	No information available
Evaporation rate:	No information available	No information available
Flammability (solid, gas):	No information available	No information available
Upper/lower flammability or explosive limits:	No information available	No information available
Vapour pressure:	No information available	No information available
Vapour density:	No information available	No information available
Relative density	No information available	No information available
Bulk density:	No information available	No information available
Solubility(ies):	No information available	No information available
Partition coefficient: n-octanol/water (log Pow):	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
Viscosity:	No information available	No information available
Explosive properties:	No information available	No information available
 Oxidising properties:	No information available	No information available
Other information		

SECTIO	SECTION 10.: Stability and reactivity					
10.1.	Reactivity:	No relevant information available.				
10.2.	Chemical stability:	The product is chemically stable under recommended storage conditions.				
10.3.	Possibility of hazardous reactions:	No 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				

SECTION	SECTION 11. Toxicological information								
11.1.	Information on toxicological effects								
	Acute toxicity:								
Route of exposure:		Method	Species	Effective Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposure time	Results			



Trade name:			HYDRO	QUIN	IONE, SO	LUTION			
Product code:	HQ-OT-X**	Date	e of compila	ition:	01 July	2019	Versi	on:	4
Oral:	No information available	rat		LD <sub>50</sub>		No inforr	nation		mg/kg roquinone)
Dermal:	No information available	-		_		No inforr available	nation	No i avail	nformation able
Inhalation:	No information available	-		-		No inforr available	nation	No i avail	nformation able
Specific t	arget organ toxicit	v - sinale	exposure (S1	OT-SE	):				
		cific effec	•			organ		N	lote
Oral:	No information			No		on available	_		
Dermal:	No information	available		No	informati	on available	-		
Inhalation:	No information	available		No	informati	on available		inform Iable	ation
Skin corrosion/irri Serious eye damage/irritation	ti		Species -	- -	aluation	Method -		format	ote ion availabl ion availabl
Sensitiza Skin sensitization:	1	4::	-1-1-						
Respiratory sensitization:	No informa								
Sympton	ns related to physic	al chemic	cal and toxic	ologic	al properti	ρς			
Oral exposure:	Nausea, vomitir nausea, dazed f heart/circulator ventricular fibril of cardiac arres the CNS as sequ	ng (dange eeling-un y system s lation thro t; function	r of aspiratio consciousne such as vasoo ough cardiac	n), diai ss/com dilatior sensit	rrhoea. Asp na, possible n (flush), hy ization), da	piration may hypotherm potension, anger of cen	iia, react arrhythn tral resp	ions to nia (po iratory	the ssible paralysis o
Dermal exposure:	Causes skin irrit dry skin.		ness, swellin	g. Prolo	onged or r	epeated cor	itact cau	ses de	fatting and
Inhalation exposure:	Vapor inhalation breathing and s	uffocating	g. High conce	entratio	on vapor ir	nhalation ma	y cause	heada	-



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Trade name:		HYDROQUIN	ONE, SOLUTION		
Product code:	HQ-OT-X**	Date of compilation:	01 July 2019	Version:	4

Eye exposure:		e eyes. Splashing , photophobia.	ı may cause irı	ritation and redne	ss, lacrimation	on, pain, swelling,
Repeate	ed dose toxicity (su	ubacute. 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 available	on -
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	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 informatio available	on -
Chronic dermal	No information available	No information available	No information available	No information available	No information available	on -
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	on -
			(67.07			
Specific	target organ toxio	city - repeated ex Specific e		Target or	raan	Note
Subacute oral		No information		No information a	<u> </u>	- Note
Subacute dermal		No information		No information a		-
Subacute inhalat	ion	No information	available	No information a	available	-
Subchronic oral		No information	available	No information a	available	-
Subchronic derm	nal	No information	available	No information a	available	-



**SECTION 12. Ecological information** 

toxicity

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

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				9 -	
Trade name:		HYDROQUIN	ONE, SOLUTION		
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Subch	ronic inhalation	No information	n available	No information available	-		
Chron	ic oral	No information	n available	No information available	-		
Chron	ic dermal	No information	n available	No information available	-		
Chron	Chronic inhalation No informatio		n available	No information available	-		
	CMR effects (carcinoge	enicity, mutagenici		tive toxicity) of causing cancer.			
	Mutagenicity <i>in-vitro</i> :		•	ation available			
	Genotoxicity:		No information available				
	Mutagenicity <i>in-vivo</i> :		No information available				
	Germ cell mutagenicity	y:	Suspected of causing genetic defects.  No information available				
	Reproductive toxicity:						
	Summary of evaluati properties:	evaluation of the CMR No information available					
11.2.	Practical experiences:						
	Classification observat	ions:	No i	nformation available			
	Other observations:		Noi	nformation available			
11.3.	General notes:						
	-						

12.1. Toxicity	12.1. Toxicity							
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note		
Fish	LC <sub>50</sub>	96 hours	fish	No information available	0.134 mg/l (hydroquinone)	<b>–</b>		
Crustacea:	EC <sub>50</sub>	48 hours	Daphnia magna	No information available	0.162 mg/l (hydroquinone)	-		
Algae/aquatic plants:	IC <sub>50</sub>	72 hours	algae	No information available	0.21 mg/l (hydroquinone)	-		
Other organisms:	-	-	-	-	-	-		
Chronic (long-term)	Doza	Exposure time	Species	Method	Evaluation	Note		

time



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Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	<b>-</b>
Algae/aquatic plants:	IC <sub>50</sub>	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	-

Biodegradation

% 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	-

Р	linco	ncon.	tratio	n Factor	r (BCF
	1000	псеп	пано	i racio	וחנר

Value	Species	Method	Evaluation	Note
No information available	No information available	No information available	No information available	-



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								F	Page 13	ot 17
Trade na	ame:			Н	DROQUIN	ONE, SO	LUTION			
Product	code:	HQ-OT-X*	* Da	ite of co	mpilation:	01 July	2019	Versi	on:	4
		T								
	Chronic e	cotoxicity	_							
	Value	Do	160	posure time	Species	s N	Лethod	Evalu	uation	Note
Chronic	toxicity on	fish LC <sub>50</sub>	No infor avail	mation able	No informatio available		rmation ilable	No informa availab		-
	toxicity on a (Daphnia	: F(	No infor avail	mation able	No informatio available	1	rmation ilable	No informa availab		-
		<i>t</i>			· 	<u>'</u>				· 
12.4.	Mobility in	n soil								
	Known or	predicted dist	tribution in e	environm	ental compai	rtments:				
	No inform	nation availabl	e							
	Surface te	ension:								
		-1	9.6		<u> </u>		<u> </u>	N A - 411		NI-+-
		alue	°C				Method		Note	
	No available	information	No info available			tion	No information available		-	
	Adcorptio	n / desorptior								
Transpor	A	/D coefficient nry's constant	loc	g Kow	Evapora	tion rate	Meth	od	ľ	Note
Soil-Water No information available		n No i	No information available		mation	No inform	nation	-		
Water-Air No information available		on No i availabl	nformatio e	n No infor available		No inform available	nation	-		
Soil-Air No information available			No information available		No information No infor available available		_			
12.5.	Poculte of	PBT and vPvB	l accocemen	<del>t</del>						
		nation availabl								
	140 11110111	adon availabl								
12.6	Other adv	erse effects								
12.6.										



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424	N 13. Disposal considerati		
13.1.	Waste processing metho	ods	
13.1.1.	Product/Packaging dispo	osal:	
	Submit for disposal to the Protection.	ne legal person authorized by the Ministry of Environmental and Nature	
13.1.2.	Waste codes/waste design	gnations according to Low:	
	Disposal must be made a	according to official regulations.	
13.1.3.	Waste tretment – relevar	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	endations:	
	authorized by the minist	oduct'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:	
	-		
SECTIO	N 14. Transport informati	on	
SECTIO	Transporting/shipment by		
UN num		Not subject to transport regulations.	
UN proper shipping name:		-	
UN prop	rt hazard class(es):	-	
Transpo		-	
Transpo Packing			
Transpo Packing Environ	group:		
Transpo Packing Environ	group: mental hazards:		
Transpo Packing Environ Special	group: mental hazards: precautions for user: Transporting/shipment by		
Transpo Packing Environ Special UN num	group: mental hazards: precautions for user: Transporting/shipment by	- rail (RID)	



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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:	-
Special precautions for user:	-
Further information: -	

SECTIO	ON 15. Regulatory informa	ntion	
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture		
	EU regulations		
	Authorisation and/or rest	rictions on use	
	Authorisations:	-	
	Restrictions:	-	



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15.2.		Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
	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,
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-
		Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives
		June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council of 29 April 2004 on persistent organic pollutants;
	Other EU regulations:	EC Regulation No. 2037/200 of the European Parliament and Council of 29 June 2000 on ozone-depleting substances; EC Regulation No. 689/2008 of the European Parliament and Council of 17
		The European Commission Regulation No. 453/2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH);
		EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council;

SECTION 16. Other information				
16.1.	Indication of changes:	-		
16.2.	Abbreviations and acronyms:	PBT Stable, bioaccumulative and toxic  vPvB Strongly stable and strongly bioaccumulative  LD <sub>50</sub> Lethal dose, 50%  LC <sub>50</sub> Lethal concentration, 50%  STOT – SE Specific target organ toxicity - single exposure		
16.3.	Key literature references and source of data:	-		
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)			
Classification		Classification procedure		
-		-		
16.5.	Relevant H statements (number and full text)			



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		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:		-
			** "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
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