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Trading name:	BENEDICT'S REAGENT				
Product code:	BNR-OT-X**	Date of compilation:	27 June 2019	Version:	2

SECTI	ON 1: Identification of	the substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	BENEDICT'S	BENEDICT'S REAGENT		
	Chemical name:	-			
	Catalogue number:	BNR-OT-X*	*		
1.2	Relevant identified us	es of the subs	tance or n	nixture and uses advised against	
	Uses:	ecting glucose in urine.			
	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 at Medical Devices and there is no reason to use it for other purpose		
1.3	Details of the supplier	of the safety	data shee	t	
	Supplier:		BioGnos	t Ltd.	
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2	2404039	
	e-mail of competent p	person:	msds@b	<u>piognost.hr</u>	
	National contact:		-		
1.4	Emergency telephone	number			
	National Protection a	nd Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	TION 2. Hazards identification					
2.1	Classification of the substance or mixture					
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP)					
	Hazard class and ca	tegory code:	Hazard statements*:			
	Aquatic Chronic 4 H413					
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Haza	ard-statements: see S	ECTION 16			
2.2	Label elements					
	Product identification:	BENEDICT'S REA	AGENT			
	Identification number:	-				
	Authorization number: -					
	Hazard pictograms:	-				
	Signal word:	-				



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	Hazard statements:	H413 May cause long lasting harmful effects to aquatic life.
	Precautionary statements:	P273 Avoid release to the environment.
	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)		
6132-04-3/ 200-673-3/ -	-	≤ 15 %	Sodium citrate dihydrate	Not classified		
7758-99-8/ 231-847-6/ 029-004-00-0	-	< 2 %	Cooper sulphate pentahydrate	Acute Tox.4; H302 Skin Irr. 2; H315 Eye Irr. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410		

SECTION	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 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.	



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	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:	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 medical attention and special treatment needed			
	-			

SECTIO	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO ₂			
	Saltable extinguishing media.	Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	No information available			
5.2	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	Carbon oxides, sulphur oxides, hydrogen fluoride, sodium oxides,copper oxides			
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	ent with extinguishing media.			

SECTIO	SECTION 6. Accidental release measures				
6.1	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personnel				
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Use protective equipment; in call (see Section 8).	se of inadequate ventilation use adequate airways protective equipment			
6.2	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3	Methods and material for conta	inment and cleaning up			



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6.3.1.	Bunding, covering of drains; capping procedures:	Sand 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	
	-	

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.		
	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. Thoroughly wash hands after work and before eating.				
7.2	Conditions for safe storage, including any incom				
	Technical measures and storage conditions:		htly closed and upright set containers in a ated storage roomsat temperatures ranging 25 °C.		
	Packaging materials:	Manufacturer's original packaging. Avoid metal containers.			
	Requirements for storage rooms and vessels:	Keep away	r from food and drink. Keep the containers sed.		
	Advices for storage equipment:	must be re	e must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper .		
	Further information on storage conditions:	and do no	t use empty containers for storing other Do not store with incompatible materials on 10).		
7.3	Specific end use(s)				
	Recommendations:	-			



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Industrial s	ector spe	cific solut	ions:		-					
SECTION 8. Exposu		ols/perso	nal prote	ction						
8.1 Control pa	rameters	l		Т_			T			
Substance		C A	C No			nal exposur nort term va		Piolo	rical limit values	
Substance			CAS No		ppm	mg,		рισιοί	gical limit values	
Copper	744	0-50-8		-/-	0.2			_		
			<u> </u>			<u>′ </u>				
Substance name:	-									
EC No: - CAS No:			: -							
DNEL						1				
				In	dustria	nl .				
Route of	Acute		А	cute		Chr	onic		Chronic	
exposure:	effect local effect		effect	systen	nic	effect local			effect systemic	
Oral	-		-			-		-		
Inhalation	-		-			-		-		
Dermal Critical physical para	- amotors: 6	olubility.	flammahil	ity co	rrocivity	- -		-		
Cirtical physical para	311161613. 3	solubility,	Папппарп		nsume					
Route of	A	cute	Т	cute	711341111		onic		Chronic	
exposure:		t local	effect					effect systemic		
Oral	-		-		-		-	-		
Inhalation	-		-			-		-		
Dermal	-		-			-				
PNEC					ı					
Environmental prote	ection tar	get			PNEC					
Fresh water					No information available					
Freshwater sedimen	its					formation a				
Marine water					No information available					
Marine sediments				No information available						
Food chain					formation a					
Microorganisms in s	sewage tr	eatment			No information available No information available					
Soil (agricultural) Air						formation a				
OII OII					140 111	ioiiiauoii a	ivaliable			



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8.2	Exposure controls					
8.2.1. Appropriate engineering controls						
	Substance/mixture related measu 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 preve exposure:	ent	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to prevent ex	posure:	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	ctive nitrile gloves, 0.11 mm thick (EN 374).			
	LITHOR CHIN PROTOCTION:		r antistatic clothing made of natural fibers (such as cotton) long sleeves (EN 340) and shoes that cover the entire foot.			
8.2.2.3.	Respiratory protection:	combir	le mask (EN 136) or half mask (EN 140) equipped with a ned "A1 + Form" filter (EN 143) used when concentration 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	ction 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.			
	Technical measures to prevent exposure:	See Se	ction 6			

SECT	ION 9. Physical and chemical properties						
9.1	Information on basic phys	ical and chemical properties					
		Value	Method				
	Physical state:	liquid	No information available				
	Colour:	light blue	No information available				
	Odour:	no odor	No information available				



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	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
2	Other information		

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

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



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				· · · · · · · · · · · · · · · · · · ·			i	;	
Route of exposure:	Method	Species	;	Dose LD ₅₀ /l ATE _{mi:}		Exposure	time	Results	
Oral:	-	-	_	informatio ilable	n	_		-	
Dermal:	_	-		informatio ilable	n	-	-		
Inhalation:	-	-		informatio ilable	n	-		-	
:									
Specific targ	get organ to	kicity – single	exposure (S	STOT SE):					
		pecific effects			Target org			Note	
Oral:		tion available			nation ava		-		
Dermal:					nation ava		-		
Inhalation:	No informa	tion available		No inforn	nation ava	ilable	-		
Aspiration h	nazard:		No infor	mation ava	ilable.				
Irritation an			C	: r		N 4 - 4		Nists	
Skin	Ехро	sure time	Spec	ies E	Evaluation	Method		Note	
corrosion/irritation:	_		-	-		-	-		
Serious eye damage/irritation	-		-	-		-	-		
	i i					I			
Sensitizatio	n								
Skin sensitization:	No	information a	available.						
Respiratory sensitiza	tion: No	information a	available.						
Symptoms	-	e physical, che		toxicologica	al characte	eristics			
Oral exposure:		nation availab							
Dermal exposure:	No inforr	nation availab	le.						
Inhalation exposure:		nation availab							
Eye exposure:	No inforr	nation availab	le.						
Repeated d	ose toxicity (subacute, sub		ronic)					
	Dose	Exposure time	Speci	es	Method	Evalua	ition	Note	



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

C:£: - ++			oosure (STOT RE):
Specific farger	organ toxicity -	reneated ext	msure (STOT RE).

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

CMR effects (carcinogenicity; mutagenicity; reproductive toxicity)



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	Carcinogenicity:	No information available.
	Mutagenicity in vitro:	No information available.
	Genotoxicity:	No information available.
	Mutagenicity in vivo:	No information available.
	Germ cell mutagenicity:	No information available.
	Reproductive toxicity:	No information available.
	Summary of evaluation of the CMR properties:	No information available.
11.2	Practical experiences:	
	Classification observations:	No information available.
	Other observations:	No information available.
11.3	General notes:	
	-	

SECTION 12. Ecologic	cal informat	tion				
12.1 Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	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 ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	_



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Product code:	В	NR-OT-X**		Г	Date of compilat	ion:	27 Jun	e 2019	Vers	sion:	2
Algae/aquatic p	olants	IC ₅₀	72 hours		No information available	No inforr availa	nation ble	No informatio available	n	_	
Other organism	ıs	-	_		_	-		_		-	
		<u> </u>	<u> </u>				i		i		
12.2 Persist	ence a	nd degradab	lity								
Abiotio	degra	dation									
	De	gradation ha	lf-lives		Method		Evaluation	1	1	Note	
Marine water	No ir	nformation av	vailable		information ailable	No in availa	formation ble	-			
Fresh water	No ir	nformation av	ailable		information ailable	No in availa	formation ble	-			
Air	No ir	nformation av	vailable		information ailable	No in availa	formation ble	-			
Soil	No ir	nformation av	ailable		information ailable	No in availa	formation ble	1			
Biodeg	radatio	on						***			
% Degradation	on	Time (d	ays)		Method		Evaluation	1	1	Note	
No information available		No infavailable	ormation		o information ailable	No in availa	formation ble		inform ilable	ation	
		ive potential									
		er partition co	efficient (
Value	Conce	ntration	рН	°C	Method		Evalua	ation		Note	
				-	-	-	•		_		
:		:	1		:						
	centra	tion factor (B									
Value		Specie			Method		Evaluatio			Note	
No information available		o info vailable	ormation		information ailable		informatio lable	on -			



13.1

Waste treatment methods

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

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1	Chronic ecotor	xicity	F					
	Value	Dose	Exposure time	Species	Metho	od E	valuation	Note
Chronic	toxicity on fish	LC ₅₀	information	No information available	No informat available	1	ormation iilable	-
	toxicity on ea (<i>Daphnia</i>)	EC ₅₀	information	No information available	No informa available	1	ormation illable	-
12.4	Mobility in soi							
	-		on in environme	ntal compart	ments:			
	No informatio							
	Surface tensio	n:						
	Value	°C	Concentrati	on	Method	t l		Note
information in		No information available	No information	n No information available			-	
	Adsorption / c	lesorption coefficient						
Transpo	ort Henry	's constant	log Kow	Evaporati	on rate	Meth	iod	Note
Soil-wat	ter No available	information	No information available	No inform available		No inforn available	nation	-
Water-a	nir No available	information	No information available	No inform available	nation	No infornavailable	nation	-
Soil-air	No available	information	No information available	No inform available	nation	No inforn available	nation	-
12.5	Results of PBT	and vPvB asses	ssment					
	No informatio							
12.6	Other adverse	effects						



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13.1.1.	Product/Packaging dispos	al:
	Submit for disposal to the Protection.	legal person authorized by the Ministry of Environmental and Nature
4242		
13.1.2.	Waste codes/waste design	
	Packaging that contains re	esidual hazardous substances or is contaminated with hazardous substances
13.1.3.	Waste treatment – relevan	t information:
	No information available	
13.1.4.	Sewage disposal – relevan	t information:
	Waste must not be dispos	ed of into the sewage system.
1215	OIL II	
13.1.5.	Other disposal recommen	
	authorized by the ministry	duct's remains into the sewage system. Submit the remains to the collectors in charge. Do not dispose of the packaging into the sewage system. Submit ctors authorized by the ministry in charge.
13.1.6.	Relevant Community prov	isions:
	-	
SECTIO	N 14 TRANSPORT INFORM	
<u> </u>	Transporting/shipment by re	
UN num	ber:	3082
UN prop	er shipping name:	Environmentally hazardous substance, liquid, n.o.s. (Copper sulphate pentahydrate)
Transpo	rt hazard class(es):	9
Packing	group:	III
Environr	nentally hazardous:	-
Special p	precautions for user:	-
	Transporting/shipment by ra	ail (RID)
UN num	ber:	3082
UN prop	er shipping name:	Environmentally hazardous substance, liquid, n.o.s. (Copper sulphate pentahydrate)
Transpo	rt hazard class(es):	9
Packing	group:	III
Environr	nentally hazardous:	-
Special p	precautions for user:	-



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UN number:	3082	
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (Copper sulphate pentahydrate)	
Transport hazard class(es):	9	
Packing group:	ш	
Environmentally hazardous:	-	
Special precautions for user:	-	
Transporting/shipment by sea (IN	MDG)	
UN number:	3082	
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (Copper sulphate pentahydrate)	
Transport hazard class(es):	9	
Packing group:	Ш	
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:	3082	
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (Copper sulphate pentahydrate)	
Transport hazard class(es):	9	
Packing group:	Ш	
Environmentally hazardous:	-	
Special precautions for user:	-	

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



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	None		
15.2	Chemical safety assessment		
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act	
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC guideline)		
	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	

SECTIO	SECTION 16. Other information				
16.1	Indication of changes:	-			
	Abbreviations and acronyms:	PBT	Stable, bioaccumulative and toxic		
		vPvB	Strongly stable and strongly bioaccumulative.		
16.2		LD ₅₀	Lethal dose, 50%		
		LC ₅₀	Lethal concentration, 50%		
		TCOJ	Specific target organ toxicity - single exposure		
16.3.	Key literature references and source of data:	-			
16.4.	16.4. Classification and procedure used to 1272/2008 (CLP)		e classification for mixture according to Regulation (EC)		
Classification		Classification pro	ocedure		
-	-	-			
16.5.	5.5. Relevant H statements (number and full text)				



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Trading name:	BENEDICT'S REAGENT				
Product code:	BNR-OT-X**	Date of compilation:	27 June 2019	Version:	2

	H:	302	Harmful if swallowed.
	315		Causes skin irritation.
		319	Causes serious eye irritation.
		400	Very toxic to aquatic life.
		410	Very toxic to aquatic life with long lasting effects.
		413	May cause long lasting harmful effects to aquatic life.
16.6.	Training advice:		-
			** "X" in the product code marks different volumes (different packagings of the product)
16.7.			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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