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Trading name:	SODIUM METABISULFITE, SOLUTION FOR FEULGEN				
Product code:	NMF-OT-X**	Date of compilation:	05 July 2019	Version:	3

SECTI	ON 1: Identification of t	he substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	SODIUM M	ETABISUL	FITE, SOLUTION FOR FEULGEN	
	Chemical name:	-			
	Catalogue number:	NMF-OT-X*	**		
1.2	Relevant identified use	s of the subst	tance or n	nixture and uses advised against	
	Uses:		For use	with Feulgen staining kit.	
	Uses advised against:		Only the	e identified uses are advised.	
Reason why uses advised against: medical device, registered at the Agency for Me			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 sheet				
	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 an	d Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	ECTION 2. Hazards identification					
2.1	Classification of the substan	ce or mixture				
2.1.1	Classification according to R	egulation (EC) No 12	272/2008 (CLP)			
	Hazard class and cat	egory code:	Hazard statements*:			
	-		-			
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Haza	rd-statements: see S	ECTION 16			
2.2	Label elements					
	Product identification:	SODIUM METAI	BISULFITE, SOLUTION FOR FEULGEN			
	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. 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)			
7681-57-4/ 231-673-0/ 016-063-00-2	-	< 1 %	sodium metabisulfite	Acute Tox. 4, H302 Eye Dam. 1; H318 EUH031			

SECT	ION 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 ef	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.		



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Product code:	NMF-OT-X**	Date of compilation:	05 July 2019	Version:			
F allaia	a inaaction.	According to our findings, c	hemical, physical an	d toxicological			

	properties of the substance have not been entirely tested.
4.3	Indication of any immediate medical attention and special treatment needed
	-

SECTIO	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media: water spray, dry powder, CO ₂ or alcohol resistant foam				
	Unsuitable extinguishing media: Water with full jet				
5.2	Special hazards arising from the substance or mixture				
	Hazardous combustion products: 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 water spray. Collect contaminated fire fighting water separately. Do not contaminate the environment with extinguishing media.				

SECTIC	TION 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 without protective equipment. Avoid breathing vapors contact with skin and eyes. Do not smoke. Keep away fro 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 7 for information on safe handling. See Section 8 for information on personal protection equipment.			
	See Section 13 for disposal information.			

SECTIO	DN 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:		Prevent spilling into the sewage system and waterways.			
	Other measures:	Protect against electrostatic charges.				
7.1.2.	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:	well ventil	ghtly closed and upright set containers in a lated storage rooms at temperatures ranging o 25 °C. Protect from heat and direct sunlight.			
	Packaging materials:	Manufactu	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; floor must be resistant to chemicals. There must be no that directly leads into sewage system. Secure pro ventilation.				
	Further information on storage conditions:	and do no	ace the unused material in the storage room ot use empty containers for storing other . Do not store with incompatible materials on 10).			



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7.3	Specific end use(s)			
	Recommendations:	-		
	Industrial sector specific solutions:	-		

SECTIO	ON 8. Expos	ure contro	ols/perso	onal protec	tion			
8.1	Control pa	arameters						
	Substance		CA	S No		•	exposure limit term values	Biological limit values
					р	pm	mg/m ³	-
-				-		-	-	-
Substa	ince name:	-	-					
EC No:	•	-	CAS No	: -				
DNEL								
					Ind	ustrial		
Route	of	Αςι	ıte	Acut	te		Chronic	Chronic
expos	ure:	effect	local	ocal effect systemic			effect local	effect systemic
Oral	Dral			-		-		
Inhalat	nhalation			-		-		
Derma	l	-		-		-		-
Critical	l physical pai	rameters: s	olubility,	flammabilit	ty, corre	osivity:	-	
					Con	sumer		
Route	of	Ad	cute	Acut	te		Chronic	Chronic
expos	ure:	effec	t local	effect sys	stemic		effect local	effect systemic
Oral		-		-		-		-
Inhalat	tion	-		-		-		-
Derma		-		-		-		-
PNEC								
Enviro	nmental prot	ection targ	get			PNEC		
Fresh v	water				I	no information available		
Freshw	vater sedime	nts				no information available		
Marine	e water					no information available		
Marine	e sediments					no inform	nation available	
Food c	chain					no inform	nation available	
Microc	organisms in	sewage tr	eatment			no information available		
Soil (ag	gricultural)				1	no inform	nation available	
Air						no inform	nation available	



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

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8.2	Exposure controls					
8.2.1.	Appropriate engineering controls					
	Substance/mixture related measures to prevent exposure during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structural measures to prevent exposure:		In accordance with Section 7.			
	Organisational measures to 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.	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					
3.2.2.2.	Hand protection:		otective gloves have to satisfy the specification of tion (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min			
	Other skin protection:	footwe entire imperr	everyday work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of neable material suitable for protection from liquid chemical 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 GV			
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			



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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
	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		

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



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10.2	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).
10.3	Possibility of hazardous reactions:	No information available
10.4	Conditions to avoid:	No information available
10.5	Incompatible materials:	No information available
10.6	Hazardous decomposition products:	No information available

11.1 Informat	ion on toxicological e	effects						
Acute to	xicity:							
Route of exposure:	Method	Species	es Dose LD ₅₀ /LC ₅₀ or ATE _{mix}		Exposure time		Results	
Oral:	No information available	-	No inf availat	ormation ble	-		-	
Dermal:	No information available	-	No inf availat	ormation ble	-		-	
Inhalation:	No information available	-	No inf availat	ormation ble	-		-	
Specific	target organ toxicity	- single expos	sure (STC	OT SE):				
	Specifi	c effects	Target organ				Note	
Oral:	No information a	vailable	Ν	No information available				
Dermal:	No information a	vailable	No information available					
Inhalation:	No information a	vailable	Ν	lo information a	vailable	-		
Aspiratio	on hazard:	Nc	o informa	tion available.				
Irritation	and corrosion					1		
	Exposure	time	Species	Evaluatio	on Method	1	Note	
Skin corrosion/irritatic	n: -	-		-	-	-		
Serious eye damage/irritation	Serious eye damage/irritation			-	-	-		
Sensitiza	tion							
Skin sensitization	: No infor	mation availa	ıble.					
Respiratory sensitization: No information av			hle					



Subacute oral

Subacute dermal

No information available

No information available

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			-	y to Regulatio	-			Page 9 of	16
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Product code:	NM	-OT-X**	Da	ion:	05 July	/ 2019	Version:		
Sympto	ms rolate	d to the ph	weical chomic	al and toxicolog	uical cha	ractoristi			
Oral exposure:		armful if sw				lacteristi			
Dermal exposure.				jh skin. May cau	co ckin	irritation			
Inhalation exposure			-	ise respiratory t			•		
Eye exposure:			/e irritation.						
Lyc exposure.	14	luy cuuse es							
Repeate	ed dose t	oxicity (sub	acute, subchro	onic, chronic)					
1	D	Dose	Exposure time	Species	Meth	od	Evaluation	Note	
Subacute oral	No information available		No information available	No information available	No inforr availa	nation ble	No informatic available	n -	
Subacute dermal	No in availab	formation le	No information available	No information available	No inforr availa	nation ble	No informatic available	n -	
Subacute inhalation	No in availab	formation le	No information available	No information available	No inforr availa	nation ble	No informatic available	on -	
Subchronic oral	No in availab	formation le	No information available	No information available	No inforr availa	nation ble	No informatic available	on -	
Subchronic dermal	No in availab	formation le	No information available	No information available	No inforr availa	nation ble	No informatic available	on -	
Subchronic inhalation	No in availab	formation le	No information available	No information available	No inforr availa	nation ble	No informatic available	on -	
Chronic oral	No in availab	formation le	No information available	No information available	No inforr availa	nation ble	No informatic available	on -	
Chronic dermal	No in availab	formation le	No information available	No information available	No inforr availa	nation ble	No informatic available	on -	
Chronic inhalation	No in availab	formation le	No information available	No information available	No inforr availa	nation ble	No informatic available	on -	
Specific	target o	rgan toxicit	v – repeated e	xposure (STOT	RE):				
	<u> </u>	5	Specific effect	•	-	Target o	raan	Not	_

No information available

No information available

-

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SECTION 12. Ecologie	al informat	ion								
12.1 Toxicity										
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note				
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-				
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-				



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Algae/aquatic plants	IC ₅₀	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	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-

12.2 Pers	stence	and degradability			
Abio	tic deg	radation			
	C	Degradation half-lives	Method	Evaluation	Note
Marine water	No	information available	No information available	No information available	-
Fresh water		information available	No information available	No information available	-
Air No		information available	No information available	No information available	-
Soil No		information available	No information available	No information available	-
Biod	egrada	tion			
% Degrada	tion	Time (days)	Method	Evaluation	Note
No information available		No information available	No information available	No information available	No information available

12.3	Bioaccumulative potential											
	Octanol-water partition coefficient (log Kow)											
Value	Concentration	рН	°C	Method	Evaluation	Note						
-	-	-	-	-	-	-						



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Product		NMF-	OT-X**		Date	of co	mpilatio	on:	05 July	2019	9	Version: 3	
	Bioconcer	ntration f	factor (BCF)										
Va	lue		Species		N	1ethoc	ł	E١	aluatic	n		Note	
No inforı available		No availat	inform ble	ation	No info available		n	No info availab	ormatic ole	n	-		
	Chronic e	cotoxicit	V		<u>.</u>			<u>.</u>			1		
	Value Dose			-	osure ime	Spe	ecies	Meth	Method Ev		aluation	Note	
Chronic toxicity on fish LC ₅₀		information in		No inforr availa	mation able	No inform availab		No infor avail	mation able	-			
	toxicity on a (<i>Daphnic</i>		EC ₅₀	No infor availa	mation able	No inforr availa	mation able	No inform availab		No infor avail	mation able	-	
12.4	Mobility i	n soil		,	·								
			ed distributi	on in e	environme	ental c	compart	ments:					
	No inform	nation av	ailable										
	Surface te	ension:											
	Value		°C	C	oncentrat	tion		Metho	bd			Note	
	No informatio available		ormation ailable		informat iilable	ion	No inf availat	ormation ble	n		-		
	Adsorptic	on / deso	rption										
Transpor	t	A/D coef lenry's co		lc	og Kow	E١	vaporatio	on rate	١	Лethc	d	Note	
Soil-wate	No	in	formation	No ir availa	nformatio able		o inform ailable	ation	No in availa		ation	-	
Water-ai	r No avail		formation	No ir availa	nformatio able		o inform ailable	ation	No in availa		ation	-	



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Produc	t code:	NMF-OT-X**	Date of	compilation:	05 July 2019	Version:	3
Soil-air	No availa	information able	No information available	No information available	No information available	-	
12.5	Results of	PBT and vPvB asses	ssment				
	Not applic	able.					
12.6	Other adv	erse effects					
	No further	relevant information	on available.				
SECTIO	N 13. Disp	osal consideration	S				
13.1	Waste tr	eatment methods					
13.1.1.	Product	/Packaging disposa	l:				
		for disposal to the l		rized by the Minis	try of Environmental	and Nature	
13.1.2.	Waste co	odes/waste designa	itions according to	o Law:			
	15 01 10 substance		ontains residual h	azardous substand	es or is contaminate	ed with hazardo	ous
13.1.3.	Waste tr	eatment – relevant	information:				
	No infor	mation available					
13.1.4.	Sewage	disposal – relevant	information:				
	Waste m	nust not be dispose	d of into the sewa	ge system.			
13.1.5.	Other di	sposal recommend	ations:				
	Do not o authoriz	ispose of the prod	uct's remains into n charge. Do not o	dispose of the pac	n. Submit the remain kaging into the sewa arge.		
13.1.6.		t Community provis					
	Disposa	l must be made acc	ording to official r	egulations.			
SECTIO	N 14 TRAN	ISPORT INFORMA	TION				
	Transporti	ng/shipment by roa	ad (ADR)				
UN num	ber:		Not subject t	o transport regula	tions		



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			_ 1								
Transport hazard cl	lass(es):	-									
Packing group:		-									
Environmentally ha	ızardous:	-									
Special precautions	s for user:	-									
Transporti	ing/shipment by rail (RI	D)									
UN number:		Not subject to transport regulations									
UN proper shipping	g name:	-									
Transport hazard cl	lass(es):	-									
Packing group:		-									
Environmentally ha	izardous:	-									
Special precautions	s for user:	-									
Inland wat	terway transport (ADN)										
UN number:			ot subject to transport regu	lations							
UN proper shipping name:		-									
Transport hazard class(es):		-									
Packing group:		-									
Environmentally ha	izardous:	-									
Special precautions	s for user:										
Transporti	ing/shipment by sea (IN	1DG									
UN number:		Nc	ot subject to transport regu	lations							
UN proper shipping	g name:	-									
Transport hazard cl	lass(es):	-									
Packing group:		-									
Environmentally ha	izardous:	-									
Special precautions	s for user:	-									
Transport in bulk a of MARPOL 73/78 a	according to Annex II and the IBC code:	-									
Transporti	ing/shipment by air (ICA	۰0-	TI/IATA-DGR)								
UN number:		Nc	ot subject to transport regu	lations							
UN proper shipping	g name:	-									
Transport hazard cl	lass(es):	-									
Packing group:		-									
Environmentally ha	ızardous:	-									
Special precautions	s for user:	-									
Further information	n: -										



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15.1	DN 15. Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture				
	EU regulations				
	Authorization and/or restrictions 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; 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 1999/13/EC about limitation of emissions of volatile organic compounds (VOC- guideline)				
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act			
15.2	Chemical safety assessme	nt			
	None				

SECTION 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 ₅₀	Lethal dose, 50%		
		LC ₅₀	Lethal concentration, 50%		
		тсој	Specific target organ toxicity - single exposure		
16.3.	Key literature references and source of data:	-			



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Trading name:	SODIU	I METABISULFITE, SOLUTION FOR FEULGEN				
Product code:	NMF-OT-X**	Date of compilation:	05 July 2019	Version:	3	

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)				
	H302	Harmful if swallowed.			
	H: H318	Causes serious eye damage.			
16.6.	Training advice: -				
		** "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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