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Trading name:	SODIUM HYDROXIDE, SOLUTION			
Product code:	NH-OT-X**	Date of compilation:	05 July 2019	Version: 2

SECTI	ON 1 IDENTIFICATION (OF THE SU	BSTANCE/MI	XTURE AND OF THE COMPANY/UNDERTAKING	
1.1.	Product identifier				
	Trading name:	SODIUM	HYDROXIDE, S	SOLUTION	
	Chemical name:	-			
	Catalogue number:	NH-OT-X			
1.2.	Relevant identified use	es of the su	bstance or mix	cture and uses advised against	
	Uses:		For use wi	th Congo Red Puchtler kit.	
	Uses advised against:		Only the id	dentified 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 safe	ty data sheet		
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Fax no.:		+385 1 2404039		
	e-mail of competent person:		msds@biognost.hr		
	National contact:	National contact:		-	
1.4.	Emergency telephone number				
	National Protection and Rescue Dire		irectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2 HAZARDS INFORMATION					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification (REGULATION (EC) No. 1272/2008 (CLP)					
	Hazard class and category code: Hazard statements*:					
	Not identified as hazardous subst	tance.	-			
2.1.2.	Additional information					
	-					
*For ful	ll text of Hazard- and EU Hazard-sta	atements: see S	ection 16			
2.2.	Classification according to EC Dire	ective Nr. 1272,	/2008 CLP)			
	Product identification:	SODIUM HYD	PROXIDE, SOLUTION			
	Identification number:	-				
	Authorization no.: -					
	Hazard pictograms:					
	Signal word:	-				



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	Hazard statements:	-
	Precautionary statements:	-
	Further information:	-
2.3.	Other hazards	
	-	

SECTION 3 CO	SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS							
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)				
1310-73-2/ 215-185-5/ 011-002-00-6	-	≤ 1%	sodium hydroxide	Skin Corr. 1A; H314				

SECTI	TION 4 FIRST AID MEASURES				
4.1.	Description of first aid measures				
	General notes:				
	Following inhalation:	ve st	arry the afflicted person out of the contaminated area into a well- entilated area or out for fresh air. If breathing becomes erratic or it cops, immediately apply artificial respiration (other than mouth-to- nouth) and contact a physician.		
	Following skin contact:		emove contaminated clothing. Immediately wash with plenty of rater and soap. Seek medical assistance if the symptoms of irritation emain.		
	Following eye contact:		inse out with plenty of water with the eyelid held wide open using ean fingers. If the symptoms remain, immediately call a physician.		
	Following ingestion:		o not induce vomiting. Make the afflicted person drink a glass of later. If spontaneous vomiting occurs, wash the mouth with water, men make the person drink 100-200 ml of water and seek medical ttention.		
	Self-protection of the first aider:		reat symptomatically.		
4.2.	Most important symptoms a	nd effect	s, both acute and delayed		
	Following inhalation:		on of large amounts of vapors in inadequately ventilated perimeter use coughing, sneezing, headache and nausea.		
	FOILOWING CRID CONTACT:		rritation. After short exposure, resorption effects are not likely. Long- oposure may cause drying, cracking and tingling sensation of skin.		
	FOILOWING EVE CONTACT.		eye contact may cause slight to moderate irritation, lacrimation and g sensation.		



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	Following ingestion:	Swallowing may cause irritation of mucosa, tingling sensation in the mouth, burning sensation; higher levels of concentration may cause nausea, abdominal pain and vomiting. In case of vomiting, aspiration causes coughing, difficult breathing. Higher levels of concentration may cause suffocation.		
4.3.	Indication of any immediate medical attention and special treatment needed			
	-			

SECTI	SECTION 5 FIREFIGHTING MEASURES				
5.1.	Extinguishing media				
	Suitable extinguishing media: Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol-resistant foam				
	Unsuitable extinguishing media: water jet				
5.2.	Special hazards arising from the substance or mixture				
	Hazardous combustion products: No information available				
5.3.	Advice for firefighters				
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. Cool closed containers exposed to fire with water spray or vapor.				
5.4.	Additional information				
	Remove sources of heat and ignition.				
	Do not contaminate the environment with extinguishing media.				

SECTIO	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. Remove all sources of sparks and ignition. Do not smoke.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Wear protective equipment (s	see Section 8).			
6.2.	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3.	Methods and material for containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures: Sand or clay barriers.				



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6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.
6.3.3.	Other information:	-
6.4.	Reference to other sections	
	-	

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



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SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION								
8.1. Control para	8.1. Control parameters							
Substance		CAS No		•	exposure limit term values	Biological limit values		
				ppm	mg/m ³			
Sodium hydroxide		1310-7	73-2	-/-	-/2	No information available		
Substance _ name:								
EC No: -		CAS No:	-					
DNEL								
				Industrial				
Route of exposure:					Chron effect lo			
Oral	-		-		-	-		
Inhalation	-		-		-	-		
Dermal	-		-		-	-		
Critical physical parar	neters: s	solubility, fla	mmabilit	ty, corrosivity:	-			
				Consumer				
Route of Acut		Acute	cute Acu		Chron	ic Chronic		
exposure:	effe	ect local	local effect		effect lo	ocal effect systemic		
Oral	-		-		-	-		
Inhalation	-		-		-	-		
Dermal	-		-		-	-		
PNEC								
Environmental protec	tion tar	get		PNEC				
Fresh water				No infor	No information available			
Freshwater sediments	S			No infor	No information available			
Marine water				No infor	No information available			
Marine sediments				No infor	No information available			
Food chain				No infor	No information available			
Microorganisms in se	wage tr	eatment		No infor	No information available			
Soil (agricultural)				No infor	No information available			
Air	Air				mation availabl	e		
8.2. Exposure	contro	ls						



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8.2.1.	Engineering measures				
	Substance/mixture related measures to prevent exposure during identified uses: Structural measures to prevent exposure: Organisational measures to prevent exposure: Technical measures to prevent exposure:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
			No information available		
			Organization of work in order to reduce other worker's influence during work process.		
			Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.		
8.2.2.	Personal protection equip	oment			
8.2.2.1.	Eye and face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.		
8.2.2.2.	Skin protection				
	Hand protection:		tive gloves must be according to the EU Directive 2016/425/EEC and ard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min		
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long s (EN 13034), and shoes that cover the entire foot (EN 10335).		
8.2.2.3.	Respiratory protection:	filter f	tive full face mask (EN 136) or half mask (EN 140) equipped with a or organic vapors, type "A" (boiling point >65°C) acording to EN) used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No inf	ormation available		
8.2.3.	Environmental exposure controls				
	Substance/mixture relate measures to prevent expe		See Section 6		
	Structural measures to prevent exposure:		Use modern equipment.		
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.		
	Technical measures to 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		
	Color:	colourless	No information available		



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Odor:	no odor	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
Vapor pressure:	No information available	No information available
Vapor 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):	Soluble in 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
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:	See subsections 10.3 through 10.5.			
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.			
10.3.	Possibility of hazardous reactions:	With strong oxidants, sodium-hydroxide, sulfuric acid, aluminum.			
10.4.	Conditions to avoid:	No information available.			
10.5.	Incompatible materials:	No information available.			
10.6.	Hazardous decomposition products:	No information available.			

SECTIO	SECTION 11 TOXICOLOGICAL INFORMATION			
11.1.	Information on toxicological effects			
	Acute toxicity:			



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Route of exposure:	Method	Specie	es LD ₅	tive dose ₀ /LC ₅₀ or FE _{mixture}	Expos	ure time	Results	
Oral exposure:	No information available	_		LD ₅₀		-	-	
Dermal exposure:	No information available	-		LD ₅₀		-	-	
Inhalation exposure:	No information available	-		LC ₅₀				
Specific ta	rget organ toxicity	– single expo	sure (STOT SE):				
	Sp	ecific effects		Target	organ		Note	
Oral exposure:	No informat	ion available	No	informatio	on availab	le -		
Dermal exposure:	No informat	ion available	No	informatio	on availab	le -		
Inhalation exposure	e: No informat	ion available	No	informatio	on availab	le -		
Respirator	y irritation:	No	o information	available				
Irritation a	and corrosion		-			:		
	Exposure ti	me Sp	pecies Ev	aluation	Method		Note	
Skin irritation:	-	-	-		_	-		
Eye irritation:	-	-	-		-	-		
Sensitizati	1							
Dermal exposure:	No information a	available						
Inhalation exposure:	No information a	available						
·								
Symptoms	s related to the phy	/sical, chemica	al and toxicolo	gical chara	cteristics			
Oral exposure:	Swallowing m	ay cause disco	omfort in abd	omen and a	abdomina	l pains.		
Dermal exposure:	Allergic perso	ns may display	y irritation.					
Inhalation exposure	e: Allergic perso	ns may display	y irritation aft	er prolonge	ed or repe	ated expos	ure.	
Eye exposure:	May cause irri	tation.						
Repeated	dose toxicity (suba	cute, subchro	nic, chronic)					
	DOSE	Exposure time	Species	Method	d E	valuation	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	-

Specific target	organ toxicity	/ – repeated ex	xposure (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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Trading name:		SODIUM HYDROXID	E, SOLUTION		
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	Carcinogenicity:	Current	studies on test animals did not indicate carcinogenic effects.				
	Mutagenicity in-vitro:	Current	in vitro tests did not indicate mutagenic effects.				
	Genotoxicity:	No info	rmation available				
	Mutagenicity in-vivo:	Current	in vivo tests did not indicate mutagenic effects.				
	Germ cell mutagenicity:	No info	rmation available				
	Reproductive toxicity:	No toxicity on reproductive organs was determined in reproductive organs.					
	Summary of evaluation of the	CMR prop	erties: -				
11.2.	Practical experiences:						
	Remarks relevant for classifica	tion:	No information available				
	Other remarks:		No information available				
11.3.	General notes:						
	-						

SECTION 12 ECOLOGICAL INFORMATION:

12.1. Toxicity

Acute toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	1
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	8 days	No information available	No information available	No information available	-
Microorganisms	LC ₅₀	72 hours	-	-	_	-
Chronic 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 cod	e: l	NH-OT-X**			Date of compila	tion:	: 05 July	2019	Vers	ion:	2
Algae/aquatio	plants	IC ₅₀	72 hou	ırs	No information available		ormation ilable	No inform availab			
Other organis	sms	-	-		-	-		-		-	
			•								
12.2. Pers	istence a	and degrada	bility								
Abio	tic degr	adation									
	De	gradation ha	lf-lives		Method			Evaluatio	on	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Note
Marine water	No in	formation av	ailable	No	information availa	able	No inform	ation av	ailable	-	-
Fresh water	No in	formation av	ailable	No	information avail	able	No inform	ation av	ailable		-
Air	No in	formation av	ailable	No	information avail	able	No inform	ation av	ailable	-	-
Soil	No in	formation av	ailable	No	information avail	able	No inform	ation av	ailable		-
	•										
Biod	egradat	ion									
% Degradation	Degradation Time (days)			Method		Evaluatio	n		Note	1	
No information		infor ailable	mation					No information available		n	
		ative potentia									
		efficient: n-od			_				**************************************		
Value		entration	рН	°(Evalua			No	te
-	No i availab	nformation le	-	-	No information	on	No inform available	ation	-		
Bioc	oncentr	ation factor (BCF)								
Value		Speci		**************************************	Method		Evaluatio	on .		Note	
No information		•	formatio		o information vailable		lo information		No infor	matio	
Chro	nic eco	toxicity	,								
Val	ue	Dos	se E	xposi	ure Species		Method	Eva	luation		Note



13.1.1.

Product/Packaging disposal:

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			time						
Chronic	toxicity on fish	n LC ₅₀	No No information i	No nformation available	No informa	ation	No inform available	nation .	-
Chronic toxicity on crustacea (<i>Daphnia</i>)		EC ₅₀	information i	nation information ir		intormation		information -	
12.4.	Mobility in so	il							
	Known or pre	dicted distributi	on in environmer	ntal compart	ments:				
	No information	on available							
	Surface tension	on:	1						
	Value	°C	Concentration	on	Metho	od		Note	9
	No information available	No information available	No informatic available	n No inf availat	ormation ble	n	-		
Transpo	rt	coefficient y's constant	log Kow	Evaporati			lethod		Note
Soil-wat	er No available	information	No information available	No inform available	ation	No infavailat	ormation ole	-	
Water-a	ir No available	information	No information available	No inform available	nation	No inf availab	ormation ole	-	
Soil-air	No available	information	No information available	No inform available	ation	No inf availab	ormation ole	-	
12.5.	Results of PB1	Γ and vPvB asses	ssment						
	No information	on available							
12.6.	Other adverse	e effects							
12.0.	No information	n available							
12.0.	NO INIOTHIALIC								
									
	N 13 DISPOSA	AL CONSIDERA'	TIONS						



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	1			
	Submit for disposal to the Protection.	legal person authorized by the Ministry of Environmental and Nature		
13.1.2.	Waste codes/waste design	nations according to Law:		
	No information available			
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.		
	:			
13.1.5.	Other disposal recommend	dations:		
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.			
13.1.6.	Relevant Community prov	isions:		
	:			
SECTION	I 14 TRANSPORT INFORMA	ATION		
	Transporting/shipment by ro	oad (ADR)		
UN numb	per:	Not subject to transport regulations.		
UN prope	er shipping name:	-		
Transpor	t hazard class(es):	-		
Packing o	group:	-		
Environm	nentally hazardous:	-		
Special p	recautions for user:	-		
•	Transporting/shipment by ra	ail (RID)		
UN numb	per:	Not subject to transport regulations.		
UN prope	er shipping name:	-		
Transport hazard class(es):		-		
Packing group:		-		
Environm	nentally hazardous:	-		
Special p	recautions for user:	-		
	Inland waterway transport (A	ADN)		
UN numb	per:	Not subject to transport regulations.		



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UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by se	ea (IMDG)
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 ai	r (ICAO-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: The produ	ct is not subject to classification.

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



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	Other EU regulations:	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 1999, guideline)	/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 assessment	
	None	

SECTIO	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%		
		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 1272/2008 (CLP)			e classification for mixture according to Regulation (EC)		
Classifi	cation	Classification procedure			
-	-				
16.5.	Relevant H statements (number	er and full text)			
	H: H314	Causes severe skin burns and eye damage.			
16.6.	Training advice:				



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Trading name:		SODIUM HYDROXID	E, SOLUTION	
Product code:	NH-OT-X**	Date of compilation:	05 July 2019	Version: 2

		** "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.

Δ	N	N	J	F	X	•

EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT