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Trading name:	AMMONIUM IRON SULFATE, SOLUTION					
Product code:	ASF-OT-X**	Date of compilation:	21 Dec 2022	Version:	5	

SECTI	ON 1: Identification of t	he subst	tance/mixture a	and of the company/undertaking	
1.1.	Product identifier				
	Trading name:	AMMC	NIUM IRON SU	LFATE, SOLUTION	
	Chemical name:	-			
	Catalogue number:	ASF-O	T-X**		
1.2.	Relevant identified use	s of the	substance or mi	xture and uses advised against	
	Uses:		For use with R	eticulin and Reticulin Contrast staining kits.	
	Uses advised against:		Only the ident	ified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes		
1.3.	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Fax no.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:		-		
1.4.	Emergency telephone	number			
	National Protection an	d Rescue	e 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 Regula	tion (EC) No 12	72/2008 (CLP)			
	Hazard class and category	code:	Hazard statements*:			
	Not identified as hazardous subst	ance.	-			
2.1.2.	Additional information					
	-					
*For ful	l text of Hazard- and EU Hazard-sta	tements: see Se	ection 16			
2.2.	Label elements					
	Product identification:	AMMONIUM	IRON SULFATE, SOLUTION			
	Identification number:	-				
	Authorization no.:	-				
	Hazard pictograms:	-				



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

SECTION 3. 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)					
-	-	-	Contains no hazardous substances	-					

SECTI	ON 4. First aid measures		
4.1.	Description of first aid measures		
	General notes:		-
	Following inhalation:		No information available
	Following skin contact:		No information available
	Following eye contact:Following ingestion:Self-protection of the first aider:		No information availableNo information availableTreat symptomatically.
4.2.	Most important symptoms and eff		fects, both acute and delayed
	Following inhalation:	No i	information available
	Following skin contact:	No i	nformation available
	Following eye contact:	No i	nformation available
	Following ingestion:	Noi	nformation available
4.3.	Indication of any immediat	te medi	cal 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 Large fire - water spray or alcohol-resistant foam				



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	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	ON 6. Accidental release meas	ures			
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personne	el			
	Protective equipment:		Use personal protective equipment (see Section 8).		
	Accident prevention methods	5:	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 Sectior	ו 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 o	Sand or clay barriers.		
6.3.2.	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 				
6.3.3.	Other information:	-			
6.4.	Reference to other sections				
	See Section 7 for information See Section 8 for information See Section 13 for informatio	about per	sonal protective equipment.		



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SECTIO	ON 7. Handling and storage					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.				
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.				
	Measures to protect the environment: Other measures:	Prevent spilling into the sewage system and waterways.				
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					
<u> </u>	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a we ventilated storage rooms, and away from sources of hea 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:	-				

SECTION 8. Exposure contro	ols/personal prote	ection		
8.1. Control parameters				
Substance	CAS No		exposure limit t term values	Biological limit values
		ppm	mg/m ³	
-	-			No information available
		·		
Substance				



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EC No:	-		CAS No: -							
DNEL										
				Inc	dustrial					
Route of exposure			cute ct local	Acut effect sys		Chronic effect local	Chronic effect systemic			
Oral		-		_		-	-			
Inhalatio	n	-		-		-	-			
Dermal		-		-		-	-			
Critical p	hysical parar	meters: s	olubility, flam	nmability, cor	rosivity:	-				
				Co	nsumer					
Route of exposure			cute ct local	Acut effect sys	-	Chronic effect local	Chronic effect systemic			
Oral		-		-		-	-			
Inhalatio	n	-		-		-	-			
Dermal		-		_		-	-			
PNEC					-					
Environm	iental protec	ction targ	get		PNEC					
Fresh wa	ter				No information available					
Freshwat	er sediments	S			No information available					
Marine w	ater				No information available					
Marine se	ediments				No information available					
Food cha	in				No information available					
Microorg	anisms in se	wage tre	eatment		No information available					
Soil (agri	cultural)				No information available					
Air					No information available					
8.2.	Exposure	e control	S							
8.2.1.	Appropr	iate eng	neering cont	rols						
		s to prev	re related vent exposure uses:	د	e the product in well ventilated rooms. Use personal protective uipment. Do not eat, drink or smoke in the workspace.					
	Structura exposure		res to preven	t No info	rmation av	nation available				
	Organisa prevent		easures to	-	zation of w work proc	on of work in order to reduce other worker's influence k process.				
	Technica exposure		res to preven			rkspace ventilation in o els in air below permitte				



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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						
			tive gloves must be according to the EU Directive 2016/425/EEC and and EN 374.				
	Hand protection:		Glove material: nitrile rubber				
			Glove thickness: ≥0.50 mm				
			Break through time: >480 min				
	Other skin protection:		Vear antistatic clothing made of natural fibers (such as cotton) with long leeves (EN 13034), and shoes that cover the entire foot (EN 10335).				
8.2.2.3.	Respiratory protection:	filter fo	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 info	ormation available				
8.2.3.	Environmental exposure controls						
	Substance/mixture relate measures to prevent expo		See Section 6				
	Structural measures to pr exposure:	event	Use modern equipment.				
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.				
	Technical measures to pr exposure:	event	See Section 6				

SECTI	ON 9. Physical and chemical propertie	S					
9.1.	Information on basic physical and chemical properties						
		Value	Method				
	Physical state:	liquid	No information available				
	Colour:	light brown	No information available				
	Odour/odour threshold:	no odor/no information available	No information available				
	Melting point / freezing point:	No information available	No information available				
	Boiling point or initial boiling point and boiling range:	No information available	No information available				
	Flammability:	No information available	No information available				
	Lower and upper explosion limit:	No information available	No information available				
	Flash point:	No information available	No information available				



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	tion temperature:	No information availab		mation available				

	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	pH:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient n-octanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density:	No information available	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	No information available	No information available
9.2.	Other information		
	-		

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

11.1. Informatio	Information on toxicological effects								
Acute toxi	Acute toxicity:								
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results				
Oral exposure:	No information available	-	LD ₅₀	-	-				
Dermal exposure:	No information available	-	LD ₅₀	-	-				
Inhalation exposure:	No information available	-	LC ₅₀	-	-				



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Product code:	AS	ASF-OT-X** Da		te of compilation: 21 Dec 2022			Version: 5			
		Spe	cific effects		Targe	et orgar	ו		Note	
Oral exposure:		No informa	tion available	No infor	nation	availat	ole	-		
Dermal exposure: No inform		No informa	tion available	No infor	mation	availat	ole	-		
Inhalation expos	ure:	No informa	tion available	No infor	mation	availat	ole	-		
Respira	tory irr	itation:	N	o information a	vailable	е				
Irritatio	-	corrosion								
		Exposure time	e Specie	es Eva	luation	า	Method		Note	
Skin irritation:	-		-	-			-	-		
Eye irritation:	-		-	-			-	-		
Sensitiz										
Dermal exposure	e: No	o information	available							
Inhalation exposure:	N	o information	available							
Sympto	ms rel	ated to the pl	nysical, chemic	al and toxicolog	ical ch	aracter	istics			
Oral exposure:	No	o information	available							
Dermal exposure	e: No	o information	available							
Inhalation exposure:	No	No information available								
Eye exposure:	No	o information	available							
	-									
Repeate	ed dos	e toxicity (sub	acute, subchro	onic, chronic)						
		Dose	Exposure time	Species	Metł	nod	Evaluation		Note	
Subacute oral	No avail	information able	No information available	No information available		matio ailable	No informa available	ation	-	
Subacute dermal	No avail	information able	No information available	No information available		matio ailable	No informa available	ation	-	
Subacute inhalation	No avail	information able	No information available	No information available		matio ailable	No informa available	ation	-	



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

Specific target organ toxicity – repeated exposure (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	-

 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



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

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	-	-					
Crustacea:	EC ₅₀	48 hours	No information available	No information available	-	-					
Algae/aquatic plants	IC ₅₀	8 days	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	-	-					
Crustacea:	EC ₅₀	48 hours	No information available	No information available	-	-					
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	-	-					



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Other o	organis	ms	-	-	-		_	-		_		
12.2.	12.2. Persistence and degradability											
	Abiotic degradation											
		D	egradation ha	lf-lives		Method		Eva	aluation		Note	
Marine water	•	No	information av	vailable	No info	ormation availat	ole	No informat	ion availa	able	-	
Fresh w	vater	No	information av	vailable	No info	ormation availab	ble	No informat	ion availa	able	-	
Air		No	information av	vailable	No info	ormation availat	ole	No informat	ion availa	able	-	
Soil		No	information av	vailable	No info	ormation availab	ole	No informat	ion availa	able	-	
	-											
	Biode	egrad	ation									
% Deg	radatio	on	Time (day	/s)	N	/lethod		Evaluation		N	ote	
No info availab			No infor available	mation				No information No infor available available			formation ble	
12.3.	Bioad	cumu	ulative potenti	al								
	Parti	tion c	oefficient: n-o	ctanol/v	vater (log k	(ow):						
Valu	ie	Cor	ncentration	рН	°C	Method		Evaluation			Note	
-		No availa	information able	-	-	No information available	n	No information available		-		
	Bioco	oncen	tration factor	(BCF)								
N	/alue		Species		Μ	lethod		Evaluatior	1	١	Note	
	No information No information available available		No inform available	ation				No inforr available	nation			
			1				:					
	Chro	nic ec	otoxicity									
Chronic ecotoxicity Value Dose Exposure Species Method Evaluation					Evalua	tion	Note					



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Trading	g nam	ne:		AMMON	IIUM	I IRON S	SUL	FATE, SC	DLUTION		
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Chronic	toxici	ity on fis	sh LC ₅₀	No No information available available			No information available		No informati available		-
Chronic toxicity on crustacea (<i>Daphnia</i>)			EC ₅₀	information	No infor availa	mation able		ormation ilable	No information available		-
12.4.	Mob	ility in s	oil								
	Knov	wn or pr	edicted distributi	on in environme	ental o	comparti	men	ts:			
	No ir	nformati	ion available								
	Surfa	ace tensi	ion:								
	V	/alue	°C	Concentrati	on			Method			Note
	No infor avail	mation able	No information available	n No information available No information available			able	-			
Transpo		A/C	' desorption) coefficient ry's constant	log Kow		Evapora	ition	ı rate	Method		Note
Soil-wa	ter	No availabl	information	No information available		availahle		No informatic available	on -		
Water-a	air	No availabl	information e			No information available		n	No informatic available	on -	
Soil-air		No availabl	information e	No information No informati available available		atior	n	No informatic available	on -		
12.5.	Resu	Ilts of PE	BT and vPvB asses	ssment							
	acco	rding to	ce/mixture does REACH Article 5 EU) 2018/605 at l	7(f) or Commissi	on D	elegated				•	• • •
12.6.	Regu	ulation (I		evels of 0.1% or			reg	ulation (E	U) 2017/21	00 or C	Commission



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ace	cording	to REACH Article 57(ot contain components consider f) or Commission Delegated reg vels of 0.1% or higher.							
12.7. Ot	her adv	erse effects								
Nc	o inform	ation available								
SECTION 1	3. Disp	osal considerations								
13.1. \	Naste ti	reatment methods								
13.1.1. F	Product	/Packaging disposal:								
	Submit f Protectio		gal person authorized by the Mir	nistry of Environme	ntal and Nature					
13.1.2. \	Naste c	odes/waste designati	ons according to Law:							
1	No infor	mation available								
13.1.3. \	Naste ti	reatment – relevant ir	nformation:							
1	No infor	mation available								
13.1.4.	Sewage	disposal – relevant ir	formation:							
١	Naste n	nust not be disposed	of into the sewage system.							
13.1.5. (Other di	sposal recommendat	ions:							
a t	authoriz he pack	ed by the ministry in	ct's remains into the sewage syst charge. Do not dispose of the p rs authorized by the ministry in	ackaging into the s	ewage system. Submit					
13.1.6. F	Relevan	t Community provisio	ons:							
-										
SECTION 1	4. Tran	sport information								
Tra	ansporti	ng/shipment by roac	I (ADR)							
UN numbei	r:		Not subject to transport regu	ulations.						
UN proper	shippin	g name:	-							
Transport hazard class(es): -										
Packing gro	oup:		_							



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	1		1	1				
Environmentally hazardous:								
Special precautions	s for user:	-						
Transporti	ng/shipment by rail ((RID)						
UN number:		No	t subject to transport regu	lations.				
UN proper shipping	g name:	-						
Transport hazard cl	ass(es):	-						
Packing group:		-						
Environmentally ha	zardous:	-						
Special precautions	s for user:	-						
Inland wat	erway transport (AD	N)						
UN number:		No	t subject to transport regu	lations.				
UN proper shipping	g name:	-						
Transport hazard cl	ass(es):	-						
Packing group:		-						
Environmentally ha	zardous:	-						
Special precautions	s for user:	-						
Transporti	ng/shipment by sea	(IMDG)					
UN number:		No	t subject to transport regu	lations.				
UN proper shipping	g name:	-						
Transport hazard cl	ass(es):	-						
Packing group:		-						
Environmentally ha	zardous:	-						
Special precautions	s for user:	-						
Transporti	ng/shipment by air (CAO-	ΓΙ/IATA-DGR)					
UN number:		Not subject to transport regulations.						
UN proper shipping	g name:	-						
Transport hazard cl	ass(es):	-						
Packing group:		-						
Environmentally ha	zardous:	-						
Special precautions	for user:	-						
Further information	n: –							

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture



Г

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

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	EU regulations		
	Authorization and/or restrictions of use		
	Authorizations:	-	
	Restrictions:	-	
	Other EU regulations:	 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/9, and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2000 on the limitation of emissions of volatile organic compounds due to the use of organi solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safet of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 10 December 2008 on classification, labelling and packaging of substances and mixtures amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII); 	
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC- guideline)		
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act	
15.2.	Chemical safety assessment		
	None		

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



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Trading name:		AMMONIUM IRON SULFATE, SOLUTION			
Product code:		ASF-OT-X**	Date of compilation: 21 Dec 2022 Version: 5		
16.2.	Abbreviati	ons and acronyms	 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative 		
16.3.	Key literat source of	ure references and 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)				
	H: -		-		
16.6.	Training a	dvice:			
16.7.	Further in	formation:	 ** "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:

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Exposure scenario resulting to Chemical safety assessment