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Trading name:	ACETATE BUFFER, GRIMELIUS				
Product code:	APG-OT-X**	Date of compilation:	21 Dec 2022	Version: 3	

SECTION	ON 1: Identification of t	the substan	ce/mixture a	and of the company/undertaking	
1.1.	Product identifier				
	Trading name:	ACETATE	BUFFER, GRIN	MELIUS	
	Chemical name:	-			
	Catalogue number:	APG-OT-	X **		
1.2.	Relevant identified use	es of the sub	ostance or mix	xture and uses advised against	
	Uses:		For use w	ith Grimelius kit.	
	Uses advised against:		Only the i	dentified 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 safet	y data sheet		
	Supplier: B		BioGnost Ltd.	BioGnost Ltd.	
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Fax no.:		+385 1 2404039		
	e-mail of competent person: <u>r</u>		msds@biognost.hr		
	National contact:		-		
1.4.	Emergency telephone	number			
	National Protection ar	nd Rescue D	irectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2. Hazards identification					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)					
	Hazard class and catego	ry code:	Hazard statements*:			
	Not identified as hazardous substance					
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Hazard-s	tatements: see Se	ction 16			
2.2.	Label elements					
	Product identification:	ACETATE BUFI	FER, GRIMELIUS			
	Identification number: -					
	Authorization no.:					
	Hazard pictograms:	-				



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	Signal word:	-				
	Hazard statements:	-				
	Precautionary statements:	-				
	Further information:	-				
2.3.	Other hazards					
	Endocrine Disrupting Properties:					
	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	-			

SECTIO	TION 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:		No information available		
	Following ingestion:		No information available		
	Self-protection of the first	aider:	Treat symptomatically.		
4.2.	Most important symptoms	and eff	ects, both acute and delayed		
	Following inhalation:	No i	nformation available		
	Following skin contact:	No i	nformation available		
	Following eye contact:	No information available			
	Following ingestion:	No i	No information available		
4.3.	Indication of any immediate medical attention and special treatment needed				
	-				

SEC	SECTION 5 Firefighting measures			
5.1.	Extinguishing media			



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	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 s	ubstance or mixture	
	Hazardous combustion products:	No information available	
5.3.	Advice for firefighters		
	Use a self-contained open-circuit Cool closed containers exposed to	compressed air breathing apparatus and fireproof clothing. o 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 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 (see Section 8).			
6.2.	Environmental precautions:			
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact Nation 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.		
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			



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See Section 7 for information about secure handling.

See Section 8 for information about personal protective equipment.

See Section 13 for information about containment.

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	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 incor	ompatibilities					
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in ventilated storage rooms, and away from sources o sunlight, and other incompatible substances.					
	Packaging materials:	Man	ufacturer's original packaging.				
	Requirements for storage rooms and vessels:		away from food and drink. Keep the containers ly closed.				
	Advices for storage equipment:	be re	storage must be made of hard material; floors must esistant to chemicals. There must be no drain that ctly leads into sewage system. Secure proper ilation.				
	Further information on storage conditions:	Do not place the unused material in the storage ro and do not use empty containers for storing other chemicals. Do not store with incompatible material Section 9).					
7.3.	Specific end use(s)						
	Recommendations:	-					
	Industrial sector specific solutions:	-					

SECTIO	SECTION 8. Exposure controls/personal protection									
8.1.	Control parameters									
	Substance	CAS No	•	exposure limit term values	Biological limit values					
			ppm	mg/m³	_					



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											. age s ee
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			T								
-			-			-		-		No infor	mation available
Substance name:	_										
EC No:	-		CAS No:	-							
DNEL											
					Inc	dustrial					
Route of		,	Acute		Acut	е			Chron	ic	Chronic
exposure:		effe	ect local	е	ffect sys	temic		(effect lo	cal	effect systemic
Oral		-		-			-				-
Inhalation		-		-			-				-
Dermal		-		-			-				-
Critical phy	sical par	ameters: s	solubility, fla	mmab	ility, cor	rosivity:		-			
					Co	nsumer					
Route of		,	Acute	te Acut		е	Chronic		ic	Chronic	
exposure:		effe	effect local effect sys		temic	emic effect local		effect systemic			
Oral		-		-		-			-		
Inhalation		-		-	-		-			-	
Dermal		-		-			-				-
PNEC											
Environmer	ntal prot	ection tar	get			PNEC					
Fresh water	•					No infor	matic	n a	availabl	е	
Freshwater	sedimer	nts				No information available					
Marine wat	er					No information available					
Marine sed	iments					No information available					
Food chain						No infor	matic	n a	availabl	е	
Microorgar	nisms in	sewage tr	eatment			No infor	matic	n a	availabl	e	
Soil (agricu	ltural)					No information available					
Air						No infor	matic	n a	availabl	e	
	:										
8.2.	Exposu	ire contro	ls								
8.2.1.	Appro	oriate eng	ineering con	ntrols							
	measu		ıre related vent exposuı 1 uses:	re		•					Jse personal protective the workspace.
	Structu		ures to preve	ent	No info	rmation av	/ailab	ole			



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	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.				
	Technical measures to pr exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.				
8.2.2.	Personal protection equi	pment					
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 ard EN 374.				
	Hand protection:		Glove material: nitrile rubber				
			Glove thickness: ≥0.50 mm				
			Break through time: >480 min				
	Other skin protection:	Wear antistatic clothing made of natural fibers (such as cotton) was sleeves (EN 13034), and shoes that cover the entire foot (EN 10334).					
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 inf	ormation available				
8.2.3.	Environmental exposure	controls					
	Substance/mixture relate measures to prevent exp		See Section 6				
	Structural measures to prescribe exposure:	revent	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						
	Colour:	colourless	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						



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	Flammability:	No information available	No information available
	Lover and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	pH:	5.5 – 5.7	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	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:	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.				

SECTION 11. Toxicological information										
11.1. Informatio	Information on toxicological effects									
Acute toxic	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	-	_					



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Product code:	AP	APG-OT-X**		ate of compilation: 21		Dec 202	2	Version:	3	
			i					:		
Inhalation	N	o information	_		LC ₅₀			_		_
exposure:		available	_		LC50					
·										
Specific t	arget	organ toxicity	– single expo	osure (ST	OT SE):					
		Sp	ecific effects		Tai	rget (organ		Not	е
Oral exposure:		No informat	ion available		No inform	natio	n availabl	e -		
Dermal exposure:		No informat	ion available		No inform	natio	n availabl	e -		
Inhalation exposu	re:	No informat	ion available		No inform	natio	n availabl	e -		
Respirato	ry irrit	tation:	N	o inform	ation availab	le				
			,							
Irritation	and c	orrosion								
i		Exposure ti	me S	pecies	Evaluatio	n	Method		Note	
Skin irritation:	-	-	-		-		_	-		
Eye irritation:	-	_	_		-		_	_		
			<u> </u>		:	1		1		
Sensitizat	tion									
Dermal exposure:	No	information a	available							
Inhalation exposure:	No	information a	available							
Symptom	ns rela	ted to the phy	/sical, chemic	al and to	xicological cl	narac	teristics			
Oral exposure:		No informatio	n available							
Dermal exposure:		No informatio	n available							
Inhalation exposu	re:	No informatio	n available							
Eye exposure:		No informatio	n available							
Repeated	dose	toxicity (suba	cute, subchro	nic, chro	nic)					
		DOSE :	Exposure time	Species	Met	hod	Ev	valuation	Note	e
Subacute oral	No i availa	ntormation ble	No information available	No informa availabl		rmat		lo nformatio vailable	n -	
Subacute dermal	No i availa	ntormation	No information available	No informa availab		rmat		lo nformatio vailable	n -	



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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 exposure (STOT RE):
	Specific effects

	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 (carcinogenici	CMR effects (carcinogenicity, mutagenicity, reproductive toxicity)		
Carcinogenicity:	No information available		
Mutagenicity in-vitro:	No information available		
Genotoxicity:	No information available		
Mutagenicity in-vivo:	No information available		



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	Germ cell mutagenicity:	No information available		
	Reproductive toxicity:	No information available		
	·			
	Summary of evaluation of the C	CMR properties: -		
11.2	Information on other hazards:			
11.2.1.	Endocrine disrupting properties:			
	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 informations:			
	-			

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	-	1
Crustacea:	EC ₅₀	48 hours	No information available	No information available	-	-



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Product cod							, GRIMELI			
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Algae/aquatic plants IC_{50} 72 hours		rs	availahla		ormation ilable	_	-			
Other organis	sms	-	-		_	_		-	-	
		and degradal	oility							
Abio		radation								
	De	gradation hal	f-lives		Method			Evaluation		Note
Marine water	No ir	nformation av	ailable	No	information availa	able	No inform	ation avai	lable	-
Fresh water	No ir	nformation av	ailable	No	information availa	able	No inform	ation avai	lable	-
Air	No ir	nformation av	ailable	No	information availa	able	No inform	ation avai	lable	-
Soil	No ir	nformation av	ailable	No	information availa	able	No inform	ation avai	lable	-
	egradat							1		
% Degradation		Time (day			Method		Evaluatio		Not	
No information available		o infori railable							No information available	
12.3. Bioa	ccumula	ative potentia	ıl							
		efficient: n-oc					1	1		
Value		entration	рН	°C			Evaluation		No	te
-	No i availab	nformation le	-	-	No information available		n No information available		-	
Rioc	oncentr	ation factor (BCF)							
Value		Specie			Method		Evaluatio	on	Not	e
No information available available			No information N		No information		No information available			
		avanable		av	anabic	<u> </u>	valiable			
Chrc	nic eco	toxicity								



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Produ	ct cod	e: Al	PG-OT-X**	Date	of co	mpilatio	on: 2	1 Dec 2	2022	Versic	on: 3
	Val	ue	Dose	Exposure time	Spe	ecies	Meth	nod	Evalu	ıation	Note
Chroni	c toxici	ity on fish	LC ₅₀	information	ormation informa		intormation		No infor		-
	c toxici cea (<i>Da</i>	-	EC ₅₀	information	No information available		No inform availab	1	No infor		_
12.4.	Mob	ility in soi	il								
	Knov	wn or pred	dicted distributi	on in environme	ental o	compart	ments:				
	No ii	nformatio	n available								
		ace tensio				-1					
		/alue	°C	Concentrati	ion		Metho	od		Note	
			No information available	No information available		No information available		-			
	Adso	oration / o	desorption								
	Ausc	•	coefficient								
Transp	ort	-	's constant	log Kow		Evaporation rate		Method			Note
Soil-wa	ater	No available	information	No information available		No information available		No information available		n	
Water-	air	No available	information	No information available		o inform vailable	nation		No information available		
Soil-aiı	r	No available	information	No information available		No information No informavailable available			n		
12.5.	Resu	ılts of PBT	and vPvB asses	ssment							
	acco	rding to F	REACH Article 5	not contain com 7(f) or Commissi evels of 0.1% or	ion De	elegated				•	
12.6	Е.	t P									
12.6.	Endo	octine dist	rupting properti	ies ies							

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

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12.7.	Other adverse effects							
	No information available							
SECTION	SECTION 13. Disposal considerations							
13.1.	Waste treatment methods							
13.1.1.	Product/Packaging disposal:							
	Submit for disposal to the lega Protection.	I person authorized by the Ministry of Environmental and Nature						
13.1.2.	Waste codes/waste designation	ns according to Law:						
	No information available							
12.12								
13.1.3.	Waste treatment – relevant info	ormation:						
	No information available							
13.1.4.	Sewage disposal – relevant info	ormation:						
	Waste must not be disposed of							
	<u>'</u>	3 7						
13.1.5.	Other disposal recommendatio	ons:						
	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 provisions	S:						
	-							
SECTION	SECTION 14. Transport information							
	Transporting/shipment by road (
UN num		Not subject to transport regulations.						
	er shipping name:	-						
	rt hazard class(es):	-						
Packing -		-						
	nentally hazardous:	-						
Special precautions for user: -								



SAFETY DATA SHEET

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

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Transporting/shipment by rail (R	ID)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN)	
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	MDG)
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 air (IC	AO-TI/IATA-DGR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

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	



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	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 793/93 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 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety 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 16 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-quideline)		
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act	
15.2.	Chemical safety assessmen	t	
	None		

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



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Trading name:	ACETATE BUFFER, GRIMELIUS				
Product code:	APG-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

16.2.	Abbreviations 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 literature references and source of data:	-	
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)		
Classifi	cation	Classification procedure	
-		-	
16.5.	Relevant H statements (numb	er and full text)	
	H: -	-	
16.6.	Training advice:	-	
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.	

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Exposure scenario resulting to Chemical safety assessment

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