

SAFETY DATA SHEET

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

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Trading name:	PHOSPHOTUNGSTIC ACID, 1% SOLUTION				
Product code:	FVK1-OT-X**	Date of compilation:	21 Dec 2022	Version:	2

SECTI	ON 1 IDENTIFICATION	OF THE SU	BSTANCE/MI	XTURE AND OF THE COMPANY/UNDERTAKING		
1.1.	Product identifier					
	Trading name:	PHOSPH	PHOSPHOTUNGSTIC ACID, 1% SOLUTION			
	Chemical name:	-				
	Catalogue number:	FVK1-OT	-X**			
1.2.	Relevant identified use	es of the su	bstance or mix	xture and uses advised against		
	Uses:		For use wi	th special staining kits.		
	Uses advised against:		Only the i	dentified uses are advised.		
	Reason why uses advi	sed against	The product is intended for use only as an <i>in vitro</i> diagnostic gainst: device, registered at the Agency for Medicinal Products and Novices 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 24099	97		
	Fax no.:		+385 1 24040	39		
	e-mail of competent p	erson:	msds@biogn	<u>ost.hr</u>		
	National contact:		-			
1.4.	Emergency telephone	Emergency telephone number				
	National Protection ar	nd Rescue D	Directorate:	112		
	Medical information:		+385 1 2348 342			
	Other information:			-		

SECTIO	ION 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 substance					
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Hazard-st	atements: see S	Section 16			
2.2.	Classification according to EC Dir	ective Nr. 1272	/2008 CLP)			
	Product identification:	PHOSPHOTU	INGSTIC ACID, 1% SOLUTION			
	Identification number: -					
	Authorization no.:	Authorization no.:				
	Hazard pictograms:	-				



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

SECTION 3 CC	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)			
12501-23-4/ 603-020-3/ -	-	≤ 1%	phosphotungstic acid hydrate	Skin Corr. 1B; H314 Eye Dam. 1; H318			

SECTIO	ION 4 FIRST AID MEASURES					
4.1.	Description of first aid measure	es				
	General notes:	-				
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to-mouth) and contact a physician.				
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.				
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician.				
	Following ingestion:	Do not induce vomiting. Make the afflicted person drink a glass of water. If spontaneous vomiting occurs, wash the mouth with water, then make the person drink 100-200 ml of water and seek medical attention.				
	Self-protection of the first aide	r: Treat symptomatically.				
4.2.	Most important symptoms and effects, both acute and delayed					
	FOILOWING INNSISTION.	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.				
	FOIIOWING SKIN CONTACT.	According to our findings, chemical, physical and toxicological properties of he substance have not been entirely tested.				



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	Following eye contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.		
	Following ingestion:	According to our findings, chemical, physical and 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: 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, protect	ive equipment and emergency procedures				
6.1.1.	For non-emergency personne	el				
	Protective equipment:	Use personal protective equipment (see Section 8).				
	Accident prevention methods: Evacuate members of all non-essential personnel and members without protective equipment. Remove all source 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 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	
	-	

SECTIO	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 generation	n: Secure proper ventilation.		
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.		
	Other measures:	-		
7.1.2.	1.2. Advice on general occupational hygiene: Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before ea			
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 EXPOSU		TROLS/PER	SONAL	PROT	ECTION		
8.1. Control para	ameters						
Substance		CAS I	No	I	upational exposure limit lues/short term values		Biological limit values
					ppm	mg/m³	
-		-			-	-	No information available
				_			
Substance name:							
EC No: -		CAS No:	-				
DNEL							
				Inc	dustrial		
Route of	A	Acute		Acut	e	Chronic	Chronic
exposure: eff		ect local	effe	ect sys	temic	effect loca	effect systemic
Oral -			-			-	-
Inhalation -			-			-	-
Dermal	-		-			-	-
Critical physical para	meters: s	solubility, fla	ımmabili	ty, cor	rosivity:	-	
			1	Co	nsumer		
Route of		Acute		Acut		Chronic	Chronic
exposure:	effe	ect local	effect systen		temic	effect loca	effect systemic
Oral	-		-			-	-
Inhalation	-		-			-	-
Dermal	-		-			-	-
PNEC					ı		
Environmental protection	ction tar	get			PNEC		
Fresh water					No information available		
Freshwater sediment	S				No information available		
Marine water					No information available		
Marine sediments				No information available			
Food chain				No information available			
Microorganisms in sewage treatment				No information available			
Soil (agricultural)					No information available		
Air					No infor	mation availabl	e



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8.2.	Exposure controls	re controls				
8.2.1.	Engineering measures					
	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 prexposure:	event	No information available			
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to pre exposure:	event	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					
			tive gloves must be according to the EU Directive 2016/425/EEC and and 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 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 related measures to prevent expo		See Section 6			
	Structural measures to pr exposure:	event	Use modern equipment.			
	Organisational measures to prevent exposure:		Adapt the work process to the required working conditions of the workplace.			
	Technical measures to pre exposure:	event	See Section 6			

SECTI	SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES					
9.1.	Information on basic physical and chemical properties					
	Value Method					



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Physical state:	liquid	No information available
Colour:	colourless	No information available
Odour/odour threshold:	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
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
рН:	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
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		

SECTIO	SECTION 11 TOXICOLOGICAL INFORMATION			
11.1.	11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008			
	Acute toxicity:			



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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	-	-

Specific target	organ toxicity – single exposure	(STOT SE):	
	Specific effects	Target organ	Note
Oral exposure:	No information available	No information available	-
Dermal exposure:	No information available	No information available	-
Inhalation exposure:	No information available	No information available	-

Respiratory irritation:	No information available

Irritation and corrosion

	Exposure time	Species	Evaluation	Met hod	Note
Skin irritation:	-	-	-	-	-
Eye irritation:	-	-	-	_	-

Sensitizati	on	

Dermal exposure:	No information available	
Inhalation	No information available	
exposure:	NO IIIIOIIIIatioii available	

Symptoms related to the physical, chemical and toxicological characteristics				
Oral exposure:	No information available			
Dermal exposure:	No information available			
Inhalation exposure:	No information available			
Eye exposure:	No information available			



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	Dose	Exposure time	Species	Method	Evaluation	Note
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 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	-



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i i ouu	it code.	VKTOTA	Date	e or compliation.	Z I Dec Zozz	version. Z	
hronic	dermal	No informat	ion available	No inform	nation available	-	
Chronic	inhalation	No informat	ion available	No inforn	nation available	-	
	CMR effects	(carcinogenicity,	mutagenicity,	reproductive toxicit	y)		
	Carcinogenio	city:	Based on a	vailable data, the cl	assification criteria	are not met.	
	Mutagenicity	ı in-vitro:	Based on a	vailable data, the cl	assification criteria	are not met.	
	Genotoxicity:		Based on a	vailable data, the cl	assification criteria	are not met.	
	Mutagenicity	ı in-vivo:	Based on a	vailable data, the cl	assification criteria	are not met.	
Germ cell mutagenicity:			Based on available data, the classification criteria are not met.				
	Reproductive toxicity: Ba		Based on a	Based on available data, the classification criteria are not met.			
11.2	Information	on other hazards	5:				
11.2.1.		srupting propert					
	components endocrine according to Commission 2017/2100 (ce/mixture does of considered disrupting of REACH Articles Delegated regular Commission of at levels of	to have properties e 57(f) or llation (EU) Regulation				
11.2.2.	Other inform	nation:	:				
	_						

SECTION 12 ECOLOG	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	-	-	



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

12.2. Persistence and degradability

Abiotic	deo	radation
7 1010110	ucu	, addition

	Degradation half-lives	Method	Evaluation	Note
Marine water	No information available	No information available	No information available	-
Fresh water	No 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		

% Degradation	Time (days)	Method	Evaluation	Note
No information available				

12.3. Bioaccumulative potential

Partition coefficient: n-octanol/water (log Kow):

Value	Concentration	рН	°C	Method	Evaluation	Note
-	No information available	-	_	No information available	No information available	-



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			factor (BCF)		N 4	ا - ماهم		F		K! .	_
No info	/alue ormation	No	Species inform	ation	No infor			Evaluation No information			
availab	le	availa	ble		available			available			
	Chronic e	ecotoxici	tv								
	Value	, co toxici	Dose		osure me	Specie	S	Method		Evaluation	Note
Chronic	toxicity o	n fish	LC ₅₀	No infor availa	mation	No informat available	-	No information available		information ailable	-
	toxicity o ea (<i>Daphn</i>		EC ₅₀	No infor availa	mation	No informat available	_	No information available	1	information ailable	-
12.4.	Mobility Known o		ed distributi	on in e	environme	ntal com	parti	ments:			
	No infor	•					•				
	Surface t	ension:									
	Value		°C	C	oncentrati	on		Method		No	te
	No informat available		o formation vailable		information ilable		o info ailab	ormation ble		-	
	Adcorn+:	on / doc	orntion	i .							
Transpo	ort	on / deso A/D coe Henry's c	fficient	lc	og Kow		Evapo	oration rate		Method	Note
	ort H	A/D coe Henry's c	fficient		nformation			oration rate ation available		Method No information available	Note
Transpo Soil-wa Water-o	ort Hoavai	A/D coe lenry's c i lable	fficient	No ir availa	nformation able nformation	No in	form			No information	Note -



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12.5.	Results of PBT and vPvB assessment
	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.
10.6	
12.6.	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.
12.7.	Other adverse effects
. =	No information available
SECTIO	N 13 DISPOSAL CONSIDERATIONS
13.1.	Waste treatment methods
13.1.1.	Product/Packaging disposal:
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.
13.1.2.	Waste codes/waste designations according to Law:
	No information available
13.1.3.	Waste treatment – relevant information:
13.1.3.	No information available
13.1.4.	Sewage disposal – relevant information:
	Waste must not be disposed of into the sewage system.
12.1.5	Other dispersal recommendations
13.1.5.	Other disposal recommendations:
	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:
	-



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Transporting/shipment by	
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	
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 (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	air (ICAO-TI/IATA-DGR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	_



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Special precautions for user:		-
Further 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:	-	
	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 assessme	ent	
	None		

SECTION 16 Other information		
16.1.	Indication of changes:	-



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Trading name:	PHOSPHOTUNGSTIC ACID, 1% SOLUTION				
Product code:	FVK1-OT-X**	Date of compilation:	21 Dec 2022	Version:	2

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.	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 (numbe		er and full text)		
		Causes severe skin burns and eye damage. Causes serious eye damage.		
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.		

ANNEX:

Exposure scenario resulting to Chemical safety assessment

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