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Trade name:		METHENAMINE, SOLUTION						
Product code:	MET-OT-X**	Date of compilation:	14 November 2022	Version:	4			

1.1.	Product identifier					
	Trading name:	METHEN	NAMIN	E, SOLUTION	I	
	Chemical name:	-				
	Product code:	MET-OT	-X**			
1.2.	Relevant identified use	es of the	substa	nce or mixtu	re and uses advised against	
	Uses: For use with Grocott and P.A.S.M./Jones kits.					
	Uses advised against:			Only the ide	entified uses are advised.	
	Reason why uses advis	sed agai	nst:		t is intended for use only as an <i>in vitro</i> diagnostic vice and there is no reason to use it for other	
1.3.	Details of the supplier	of the sa	afety d	ata sheet		
	Supplier:	Supplier: BioG		Gnost Ltd.		
	Address:		Medjı	djugorska 59, Zagreb		
	Telephone number: +38		+385	85 1 2409997		
	Telefax:		+385	+385 1 2404039		
	e-mail of competent p	erson:	<u>msds</u>	<u>@biognost.h</u>	<u>r</u>	
	National contact:		-			
1.4.	Emergency telephone	number	S			
	National Protection ar	nd Rescu	e Direc	torate:	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 Re	gulation (EC) No 1	272/2008 (CLP)			
	Hazard class and category code: Hazard statement*:					
	Skin. Sens. 1 H317					
2.1.2.	Additional information					
	-					
*For the	full text of H and EUH phrases	see Section 16.				
2.2.	Label elements					
	Product identification: METHENAMINE, SOLUTION					
	Identification number: -					
	Authorisation number:	-				



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	Hazard pictograms:	GHS07	
	Signal word:	Warning	
	Hazard statement:	H317 May cause an allergic skin reaction.	
	Precautionary statement:	P280 Wear protective gloves/protective clothing/eye/protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water and soap. P308 + P313 IF exposed or concerned: Get medical advice/attention.	
	Supplemetal hazard information (EU):	-	
2.3.	Other hazards		
	No known endocrine disrupting properties. This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.		

SECTION 3. Co	SECTION 3. Composition/information on ingredients							
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)				
100-97-0/ 202-905-8/ 612-101-00-2	-	15 - 25 %	methenamine	Flam. Sol. 2; H228 Skin. Sens. 1B; H317				

SECTIO	SECTION 4. First aid measures				
4.1.	Description of first aid measures				
	General notes:	Move out of dangerous area. Show this safety data sheet to the doctor and first responders.			
	Following inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Get medical advice.			
	Following skin contact:	Wash off with soap and plenty of water. If irritation occurs and persists: Get medical advice.			
	Following eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation occurs and persists: Get medical advice.			
	Following ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water.			



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	Self-protection of the first aider	-	
4.2.	Most important symptom	s and effects, both acute and delayed	
	Following inhalation:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.	
	Following skin contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.	
	Following eye contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.	
	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		
	Treat symptomatically.		

SECTIO	CTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Use dry chemical, CO ₂ , water spray (FOG) or foam.			
	Unsuitable extinguishing media:	Avoid solid water stream as it may scatter and spread fire.			
5.2.	Special hazards arising from the su	bstance or mixture			
	Hazardous by products of fire:	Use water spray to cool fire exposed container surfaces and to protect personnel. Thermal decomposition can produce carbon monoxide (highly toxic) and carbon dioxide (an asphyxiant at sufficient concentrations).			
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				
	9	ing due to increase in pressure. Remove sources of heat and nvironment with extinguishing media.			

SECTIO	SECTION 6. Accidental release measures				
6.1.	Personal precautions, protective e	Personal precautions, protective equipment and emergency procedures			
6.1.1.	For non-emergency personnel				
	Protective equipment: Use suitable personal protective equipment (see Section 8).				
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).				



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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 materials for co	Methods and materials for containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.				
6.3.2.	Cleaning up:	After removing the product, use water to wash the work space and used materials.				
6.3.3.	Other information:	No information available.				
6.4.	Reference to other sections	Reference to other sections				
	-					

SECTIO	DN 7. Handling and storage					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:	Use in well ventilated storage rooms. Refer to the manufacturer's recommendations.				
	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 incompatibilities					
7.2.	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C.				
	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)					



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Recomme	ndations			_				
		oecific soluti	ons:	_				
SECTION 8. EXPOS	URE CO	NTROLS / F	PERSON	AL PROTECTIO	N			
8.1. Control p	aramete	rs						
Substance		CAS	No	•	l exposure limit rt term values	Biologi	cal limit values	
				ppm	mg/m³			
-		-		-	-		-	
-								
Substance: -								
EC No: -		CAS No:	-					
DNEL								
				Industrial				
Route of exposure:		te effect			Chronic ef	fect	Chronic effect	
·		local		ystemic	local		systemic	
Oral	-		-		-	-		
Inhalation	-		-		-	-		
Dermal	-	1 1 111 0	-		-	-		
Critical physical par	ameters:	solubility, fi	ammabii	<u> </u>				
	1 4			Consumer	Cl : 6		Cl : "	
Route of exposure:		ite effect local		ute effect systemic	Chronic ef local	rect	Chronic effect systemic	
Oral	_	10 ca1	_	y sterrine	-	_	Systemic	
Inhalation	-		-		_	-		
Dermal	-		_		-	-		
PNEC								
Environmental prot	ection ta	rget		PNEC	PNEC			
Fresh water			No info	No information available				
Freshwater sediments			No info	No information available				
Marine water			No info	No information available				
Marine sediments				No info	No information available			
Food chain				No info	No information available			
Microorganisms in	sewage t	reatment		No info	rmation availab	le		
Soil (agricultural)				No info	rmation availab	le		
Λir				No info	No information available			



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8.2.	Exposure controls					
8.2.1.	Appropriate engineering controls					
	Substance/mixture related measures to prevent exposure during identified uses:		Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structural measures to prevent exposure:		No information available			
	Organisational measures to preve exposure:		Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.			
8.2.2.	Personal protection equipment:					
8.2.2.1.	Eye and face protection: Safety glasses tested and approved under appropriate standards such as EN 166(EU).					
8.2.2.2.	Skin protection:					
	Hand protection:		Handle with chemical resistant gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.			
	Other skin protection:		No specific protective equipment required.			
8.2.2.3.	Respiratory protection:		Use when overexposure potential. Improper use of respirators is dangerous.			
8.2.2.4.	Thermal hazards:		No information available			
8.2.3.	Environmental exposure controls					
	Substance/mixture related measures to prevent exposure:	See Se	ection 6			
	Structural measures to prevent exposure:	Use m	e modern equipment.			
			apt the work process to the required working conditions of the ckplace.			
	Technical measures to prevent exposure:	See Section 6				

SECTIO	SECTION 9. Physical and chemical properties						
9.1.	Information on basic physica	Information on basic physical and chemical properties					
		Value	Method				
	Physical state:	liquid	No information available				
	Colour:	colourless to light yellow	No information available				



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	Odour/odour threshold:	characteristic/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
	pH:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient noctanol/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:	Not reactive under normal conditions.				
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).				
10.3.	Possibility of hazardous reactions:	No information available.				
10.4.	Conditions to avoid:	Contact with incompatible materials and temperature extremes.				
10.5.	Incompatible materials:	Strong oxidizers.				
10.6.	Hazardous decomposition products:	Does not decompose under normal conditions. During fire, thermal decomposition can produce carbon monoxide (highly toxic) and carbon dioxide (as asphyxiant as sufficient concentrations).				



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11.1. Information on toxicological effects									
	Acute to	oxicity:							
Route of exposure:		Method	Method Species		Effectiv Dose LD ₅₀ /LC ₅₀ ATE _{mixtu}		Σ_{50} or Σ_{50} Exposu		Results
Oral:		No information available		-	No inform availa	ation	-		-
Dermal:		No information available		-	No inform availa	ation	-		-
Inhalation:		No information available		-	No information available		-		-
	Specific	target organ toxicity		•	TOT-SE):	1			
		Sp	cts	Target org		et organ		Note	
Oral:		No information ava				-		-	
Dermal:		No information ava				-		-	
Inhalatio	on:	No information ava	ilable			-		-	
	Acnirati	on hazard:	_						
	Aspiratii	on nazaru.	•	-					
	Irritation	n and corrosion							
		Exposure	e time	Speci	es	Evaluati	ion M	1ethod	Note
Skin cor	rosion/irri	No info	rmation	rabbit	-		-		mild skin irritation
Serious	irritation t	o eyes: No info available	rmation	-	-		-		-
	Co:#:-	ation.							
Chinasa	Sensitiza	1	available						
Respirat	sitization:								
sensitiza	-	No information	available	2.					
	Sympto	ms related to physical	, chemica	al, and toxi	cological r	propertie	es		
	osure:	No known s			<u> </u>				



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Dermal exposur	e: No	know	n specific syr	nptoms. May	y cau	se skin irritatior	1.			
Inhalation expo	sure: No	know	known specific symptoms.							
Eye exposure:	No	know	known specific symptoms.							
÷										
Repea	ated dose toxic	ity (su	bacute, subcl	nronic, chror	nic)					
	Dose		Exposure time	Species	5	Method	Evaluation	1	Note	
Subacute oral	No information available		lo nformation vailable	No informatic available	n	No information available	No information available		No information available	
Subacute dermal	No information available		lo nformation vailable	No informatio available	n	No information available	No informatio available	n	No information available	
Subacute inhalation	No information available		lo nformation vailable	No informatic available	n	No information available	No informatic available	n	No information available	
Subchronic oral	No information available		lo nformation vailable	No informatic available	n	No information available	No informatic available	n	No information available	
Subchronic dermal	No information available		lo nformation vailable	No informatio available	n	No information available	No informatio available	n	No information available	
Subchronic inhalation	No informat available	ion ir	lo nformation vailable	No information available		No information available	No informatio available	n	No information available	
Chronic oral	No informat available	ion ir	lo nformation vailable	No informatio available	n	No information available	No informatio available	n	No information available	
Chronic dermal	No informat available	ion i	lo nformation vailable	No informatio available	n	No information available	No informatio available	n	No information available	
Chronic inhalation	No informat available	ion ir	lo nformation vailable	No informatio available	n	No information available	No informatio available	on	No information available	
Speci	fic target orga	n toxici	ty - repeated	l exposure (S	тот	-RE):				
			Specific ef	fects		Target org	an		Note	
Subacute oral		No i	No information available		No	information ava	ailable		information ilable	
Subacute derma	al	No i	nformation a	vailable	No	information ava	ailable		information ilable	



Subacute inhalation

Subchronic oral

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

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No information

No information

available

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No information available

No information available

No information available

No information available

Subcnrc	onic oral No information availa			No information available	available			
Subchro	onic dermal	No information availa	able	No information available	No information available			
Subchro	chronic inhalation No information availa		able	No information available	No information available			
Chronic	oral	No information availa	able	No information available	No information available			
Chronic	hronic dermal No information availa		able	No information available	No information available			
Chronic inhalation No information av		No information availa	able	No information available	No information available			
	CMR effects (carcin	logenicity, mutagenicity,	reprodu	uctive toxicity)				
	Carcinogenicity:		Based on available data, the classification criteria are not met.					
	Mutagenicity in-vitro:			Based on available data, the classification criteria are not met.				
	Genotoxicity:			on available data, the classific				
	Mutagenicity in-viv	′ 0:	Based on available data, the classification criteria are not met.					
	Germ cell mutagen	icity:	Based on available data, the classification criteria are not met.					
	Reproductive toxic	ity:	Based on available data, the classification criteria are not met.					
	Summary of eva properties:	luation of the CMR	No inf	formation available				
11.2.	Information on oth	er hazards:						
11.2.1.	Endocrine disruptir	ng properties:						
	No known endocring that affect human h	ne disrupting properties nealth.						

SECTION 12. Ecological information

12.1. Toxicity



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Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	-	-	-	-
Crustacea:	EC ₅₀	48 hours	-	-	-	-
Algae/aquatic plants:	IC ₅₀	72 hours	-	-	-	-
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Doza	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	-	-	-	-
Crustacea:	EC ₅₀	48 hours	-	-	-	-
Algae/aquatic plants:	IC ₅₀	72 hours	-	-	-	-
Other organisms	-	-	-	-	-	-

	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	-

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

12.3.	Bio	Bioaccumulative potential						
	Octanol-water partition coefficient (log Kow)							
Value	9	Concentration	рН	°C	Method	Evaluation	Note	
No information available		No information available	-	-	No information available	No information available	-	



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	Diagon		ion Fostor	(BCE)								
	1	centrat	ion Factor					F 1 .:			N	
	Value Species o information No information			No inform	thod	No	Evaluation information			Note		
available available				available		_	available		-			
	Chronic	ecoto	xicity									
	Value		Dose	Expo tin		Species		Method	Ev	aluation	Note	e
Chronic	nronic toxicity on fish LC ₅₀		No informa availab	ormation inform		1	ormation ilable		rmation lable	-		
	toxicity o a (Daphn		EC ₅₀	No informa availab		ormation ailable			No information available		-	
12.4.	Mobility			ribution i	in environm	ental comp	oartme	ents:				
	Surface	tensio	n:									
	Value	9	°C	(Concentratio	on Method			Note			
					formation ble		-					
	Adsorp	tion / o	desorption	 								
Transpor	A/D coefficient		og Kow	Evapora rate		Me	ethod		Note			
Soil-wate		inforn ailable	nation		nformation lable	No informat available		No infor		-		
Water-ai		inforn ailable	nation		lo information No vailable informati available		tion	No information on available		1 -		



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Troduc	t code.	WET OT X	Date of con	прпастотт.	14 NOVEINDEL ZOZZ	Version:		
Soil-air			No information available	No informatio available	No information available	-		
12.5.	Docults o	f PBT and vPvB asse	ecomont					
12.5.				ents conside	red to be either persistent, b	nio accumulative		
			•		ive (vPvB) at levels of 0.1% o			
12.6.	Endocrine disrupting properties							
	propertie		CH Article 57(f) c	r Commissio	nsidered to have endocrine on Delegated regulation (EU) or higher.	, ,		
12.7.	Other adverse effects							
	No information available							
SECTIO	N 13. Disp	osal consideration	S					
13.1.	Waste tre	eatment methods						
13.1.1.	Produc	t/Packaging disposa	ıl:					
	Submit Protect	•	egal person autl	norized by th	ne Ministry of Environmental	and Nature		
13.1.2.	Waste o	codes/waste design	ations according	to Law:				
	Disposa	al must be made acc	cording to officia	l regulations	5.			
13.1.3.	Waste t	reatment – relevant	information:					
	No info	rmation available						
13.1.4.	Sewage	disposal – relevant	information:					
	Waste r	nust not be dispose	ed of into the sev	vage system				
	:							
13.1.5.	Other d	isposal recommend	lations:					
	authori	zed by the ministry	in charge. Do no	t dispose of	re system. Submit the remain the packaging into the sewa ne ministry in charge.		rs	
13.1.6.	Relevar	t Community provi	sions:					
1			·			· · · · · · · · · · · · · · · · · · ·	_	



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SECTION 14. Transport information					
Transporting/shipment by roa	d (ADR)				
UN number:	Not subject to transport regulations				
UN proper shipping name:	-				
Transport hazard class(es):	-				
Packing group:	-				
Environmental hazards:	-				
Special precautions for user:	-				
Transporting/shipment by rail	(RID)				
UN number:	Not subject to transport regulations				
UN proper shipping name:	-				
Transport hazard class(es):	-				
Packing group:	-				
Environmental hazards:	-				
Special precautions for user:	-				
Transporting/shipment by inland waterways (ADN)					
UN number:	Not subject to transport regulations				
UN proper shipping name:	-				
Transport hazard class(es):	-				
Packing group:	-				
Environmental hazards:	-				
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:	-				
Environmental hazards:	-				
Special precautions for user:	-				
Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:	-				
Transporting/shipment by air ((ICAO-TI/IATA-DGR)				
UN number:	Not subject to transport regulations				
UN proper shipping name:	-				
Transport hazard class(es):	-				



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Packing group:					
Environmental hazards:		_			
Special precautions for user:		-			
		:			
Further information	on: -				

5.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture		
	EU regulations		
	Authorisation and/or res	trictions on use	
	Authorisations:	-	
	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 200 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 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 1 guideline)	999/13/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	

SECTION 16. Other information



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Trade name:	METHENAMINE, SOLUTION				
Product code:	MET-OT-X**	Date of compilation:	14 November 2022	Version:	4

16.1.	Indication of changes:	-	
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:	Manufacturer's MSDS file.	
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: 317	May cause an allergic skin reaction.	
16.6.	Training advice:	-	
16.7.	Further information:	"X" in the product code marks different volumes (different packaging 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	