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Trading name:		GRAM SAFRANIN 5x CO	ONCENTRATED		
Product code:	SO05X-OT-X**	Date of compilation:	12 June 2019	Version:	4

SECTI	ION 1: Identification of	the substance	e/mixture	and of the company/undertaking		
1.1	Product identifier					
	Trading name:	GRAM SAF	RANIN 5x	CONCENTRATED		
	Chemical name:	-				
	Catalogue number:	SO05X-OT-	SO05X-OT-X**			
1.2	Relevant identified us	es of the subs	tance or n	nixture and uses advised against		
	Uses:			Safranine O stock solution for preparing contrast staining solution acc. to Gram.		
	Uses advised against:		Only the	e identified uses are advised.		
	Reason why uses advi	sed against:	nst: The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Production Medical Devices and there is no reason to use it for other put			
1.3	Details of the supplier	r of the safety	data shee	t		
	Supplier:		BioGnost Ltd.			
	Address:	Address:		orska 59, Zagreb		
	Telephone number:		+385 1 2409997			
	Telefax.:		+385 1 2404039			
	e-mail of competent	oerson:	msds@b	oiognost.hr		
	National contact:		-			
1.4	Emergency telephone	number				
	National Protection a	nd Rescue Dir	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	ECTION 2. Hazards identification					
2.1	Classification of the substance or mixture					
2.1.1	Classification according to Regu	ulation (EC) No 12	72/2008 (CLP)			
	Hazard class and catego	ory code:	Hazard statements*:			
	Flam. Liq. 3		H226			
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Hazard-	statements: see S	ECTION 16			
2.2	Label elements					
	Product identification:	GRAM SAFRANI	N 5x CONCENTRATED			
	Identification number: -					
	Authorization number:	-				



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	Hazard pictograms:	GHS02
	Signal word:	Warning
	Hazard statements:	H226 Flammable liquid and vapor
	Precautionary statements:	<ul> <li>P210 Keep away from heat/sparks/open flames/hot surfaces Do not smoke.</li> <li>P233 Keep container tightly closed.</li> <li>P281 Use personal protective equipment as required.</li> </ul>
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	-	

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)				
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610-43- xxxx	≤10 %	ethanol	Flam. Liq. 2; H225				

SECTIO	SECTION 4. First aid measures				
4.1	Description of first aid measures				
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.			
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.			
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.			
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.			
	Following ingestion:	Rinse the oral cavity, drink 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.			



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	Self-protection of the first aider:	-	
4.2	Most important symptoms and effects, both acute and delayed		
	Following inhalation:  Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.		
	Following skin contact:	Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking.	
	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.	
	Following ingestion:	Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting.	
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 <sub>2</sub> Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	No information available			
5.2	Special hazards arising from the su	ubstance or mixture			
	Hazardous combustion products: Incomplete combustion of the product.				
5.3	Advice for firefighters				
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.				
5.4	Additional information				
	Do not contaminate the environment	ent with extinguishing media.			

SECTIO	SECTION 6. Accidental release measures				
6.1	Personal precautions, protective	equipment and emergency procedures			
6.1.1.	For non-emergency personnel				
	Protective equipment: Use personal protective equipment (see Section 8).				
	Accident prevention methods: Evacuate members of all non-essential personnel and those				
	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).				
6.2	Environmental precautions:				



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	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 cor	ntainment 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 absorbing material. 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:	Do not use incompatible materials (see Section 10).	
6.4	Reference to other sections		
	See Section 7 for information on safe handling.		
	See Section 8 for information on personal protection equipment.		
	See Section 13 for disposal in	formation.	

SECTIO	SECTION 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.  Keep away from sources of ignition and heat. Do not use tools that cause sparks.		
	Measures to prevent aerosol and dust generatio	n:	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. The	oroughly was	sh hands after work and before eating.		
7.2	Conditions for safe storage, including any incom	patibilities			
	Technical measures and storage conditions:		htly closed and upright set containers in a ated storage roomsat temperatures ranging 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.			



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	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 10).
7.3	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8. Expos	ure contro	ols/pers	onal pr	rotectio	n				
8.1 Control pa	rameters	ľ							
Substance		C.A	AS No				exposure limit term values	Biological I	imit values
					рр	m	mg/m³	_	
Ethanol		64	-17-5		100	0/-	1900/-	-	
	7								
Substance name:	-	_					1		
EC No:	-	CAS No	<b>)</b> :	-					
DNEL									
					Indus	strial			
Route of	Acı	ıte		Acute			Chronic	С	hronic
exposure:	effect	local	effe	ct syster	nic		effect local	effec	t systemic
Oral	-		-			-		-	
Inhalation	-		-			-		950 mg/m <sup>3</sup>	(ethanol)
Dermal	-		-			-		343 mg/kg	(ethanol)
Critical physical par	ameters: s	solubility,	flamm	nability, c	corro	sivity:	-		
				(	Cons	umer			
Route of	Acı	ute	A	cute			Chronic		hronic
exposure:	effect	local	effect	systemic	2	$\epsilon$	effect local	effec	t systemic
Oral	-		-		-			-	
Inhalation	-		-		-			114 mg/m <sup>3</sup>	(ethanol)
Dermal	-		-					206 mg/kg	(ethanol)
PNEC									
Environmental protection target			P	PNEC					
Fresh water				0.	0.96 mg/l (ethanol)				
Freshwater sediments				3.	3.6 mg/kg (ethanol)				
Marine water					0.	0.79 mg/l (ethanol)			
Marine sediments					no	no information available			



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Food cha	in		no information available
	anisms in sewage treatment		no information available
Soil (agrid	cultural)		0.63 mg/kg (ethanol)
Air			no information available
8.2	Evocure controls		
8.2.1.	Exposure controls		
0.2.1.	Appropriate engineering controls		
	Substance/mixture related measure prevent exposure during identified		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.
	Structural measures to prevent exposure:		In accordance with Section 7.
	Organisational measures to prevent exposure:  Technical measures to prevent exp		Organization of work in order to reduce other worker's influence during work process.
			Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.
8.2.2.	Personal protection equipment		
8.2.2.1.	Eye and face protection:	levels	glasses that stick to face (EN 166) or visor in case of lower of concentration in air; protective gas mask that covers the face in case of higher levels of concentration in air.
8.2.2.2.	Skin protection		
	Hand protection:		otective gloves have to satisfy the specification of ation (EU) 2016/425 and the related standard EN 374.  Glove material: nitrile rubber  Glove thickness: 0.40 mm  Break through time: > 480 min
	Other skin protection:	footwe entire imperr	everyday work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of meable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.
8.2.2.3.	Respiratory protection:	for org	le mask (EN 136) or half mask (EN 140) equipped with a filter ganic vapors, type "A" (boiling point >65°C) according to EN oused when concentration levels exceed GVI.
8.2.2.4.	Thermal hazards:	No info	ormation available
8.2.3.	Environmental exposure controls		
	Substance/mixture related measures to prevent exposure:	See Se	ction 6

measures to prevent exposure:



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Structural measures to prevent exposure:	Use modern equipment.
Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
Technical measures to prevent exposure:	See Section 6

Information on basic physical and	chemical properties	
	Value	Method
Physical state:	liquid	No information available
Colour:	red	No information available
Odour:	ethanol like	No information available
Odor threshold:	No information available	No information available
pH:	No information available	No information available
Melting point / freezing point;	No information available	No information available
Initial boiling point and boiling range:	No information available	No information available
Flash point:	49 °C	No information available
Evaporation rate:	No information available	No information available
Flammability (solid, gas):	No information available	No information available
Upper/lower flammability or explosive limits:	No information available	No information available
Vapour pressure:	No information available	No information available
Vapour density:	No information available	No information available
Relative density:	No information available	No information available
Bulk density:	No information available	No information available
Solubility(ies):	Soluble in water (20 °C)	No information available
Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
Viscosity:	No information available	No information available
Explosive properties:	No information available	No information available
Oxidising properties:	No information available	No information available



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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:	Risk of explosion after contact with strong acids, alkali metals, alkali metal oxides, nitric acid, oxidizing substances.		
10.4	Conditions to avoid:	High temperatures, ignition sources, open flame.		
10.5	Incompatible materials:	Oxidants, acids, alkali metals.		
10.6	Hazardous decomposition products:	Non-degradable if used in the described manner.		

SECTION 11. Toxi	icological in	formation					
11.1 Informati	on on toxicol	ogical effects					
Acute tox	ricity:						
Route of exposure:	Method	Species	D	ose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mix</sub>	Exposure t	ime	Results
Oral:	-	rat (ethano	ol)	LD <sub>50</sub>	_		7.060 mg/kg
Dermal:	-	-		-	-		_
Inhalation:	-	rat (ethano	ol)	LC <sub>50</sub>	4 h		20.000 mg/l
Concific t	avaat avaan t	ovicity cinals		TOT CEN			
Specific to	arget organ t	oxicity – single e	exposure (		raan		Note
Oral:	No inform	Specific effects		No information a	3 3		
Dermal:		ation available		No information a		-	
Inhalation:	NO Inform	ation available		No information a	avaliable	-	
Aspiration	n hazard:		No infor	mation available.			
į <b>1</b>							
Irritation	and corrosion	า					
:	Exp	oosure time	Spec	cies Evaluati	on Method	ł	Note
Skin corrosion/irritation	- n:		-	-	-	-	
Serious eye damage/irritation	-		-	-	-	-	
Sensitizat	ion						
Skin sensitization:		No information a	vailable.				
Respiratory sensiti		lo information a					



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Sympto	ms rela	ated to the ph	nysical, chemic	al and toxicolog	gical characterist	ics	
Oral exposure:		No informati	on available.				
Dermal exposure	):	No informati	on available.				
Inhalation expos	ure:	No informati	on available.				
Eye exposure:		No informati	on available.				
Repeate	ed dose	e toxicity (sub	acute, subchro	onic, chronic)			
		Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No availa	information able	No information available	No information available	No information available	No informatio available	on -
Subacute dermal	No availa	information able	No information available	No information available	No information available	No informatio available	on -
Subacute inhalation	No availa	information able	No information available	No information available	No information available	No informatio available	on -
Subchronic oral	No availa	information able	No information available	No information available	No information available	No informatio available	on -
Subchronic dermal	No availa	information able	No information available	No information available	No information available	No informatio available	n -
Subchronic inhalation	No availa	information able	No information available	No information available	No information available	No informatio available	n -
Chronic oral	No availa	information able	No information available	No information available	No information available	No informatio available	on -
Chronic dermal	No availa	information able	No information available	No information available	No information available	No informatio available	n -
Chronic inhalation	No availa	information able	No information available	No information available	No information available	No informatio available	on -
Specific	target	organ toxicit	<u> </u>	xposure (STOT		1	
			Specific effec	ts	Target o	_	Note
Subacute oral			tion available		No information		-
Subacute dermal	<b>I</b>	No informa	tion available		No information	n available	-



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11.3	General notes:		<u> </u>					
	Other observa	tions:	No information available					
	Classification o		No information available					
11.2	Practical exper							
	Summary of properties:	evaluation of the CMR	R No information available					
	Reproductive t	oxicity:	No information available					
	Germ cell muta	agenicity:	No information available					
	Mutagenicity i	n vivo:	No information available					
	Genotoxicity:		No information available					
	Mutagenicity i	n vitro:	No information available					
	Carcinogenicit	y:	No information available					
	CMR effects (c	arcinogenicity; mutagenicity; re	eproductive toxicity)					
Cnroni	c innaiation	No information available	ino information available	-				
	c dermal c inhalation	No information available	No information available  No information available					
Chroni		No information available	No information available	-				
	onic inhalation	No information available	No information available	-				
	onic dermal	No information available	No information available	-				
Subchr	onic oral	No information available	No information available	-				
Subacu	ıte inhalation	No information available	No information available	-				

SECTION 12. Ecologic	cal informat	ion				
12.1 Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	-	-	-	-
Crustacea:	EC <sub>50</sub>	48 hours	-	-	-	-
Algae/aquatic plants	IC <sub>50</sub>	4 days	-	-	-	-
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note



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		No	No		

Produ	ct code:	50	O05X-O1	-X**	Date of compilation: 12 June 2		ne 2019	Version: 4	
Fish			LC <sub>50</sub>	96 hours	No information available	No informa availab		No information available	-
Crustad	cea:		EC <sub>50</sub>	48 hours	No information available	No informa availab		No information available	-
Algae/a	aquatic pla	ints	IC <sub>50</sub>	72 hours	No information available	No informavailab		No information available	-
Other o	organisms		-	-	-	-		-	-
12.2	Persisten	nce ar	nd degrad	ability					
	Abiotic d	degra	dation						
		De	gradation	half-lives	Method	Ev	valuatio	n	Note
Marine	water	No in	nformation	available	No information available	No info	ormation le	n -	

	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	-

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

12.3	Bioacc	umulative potenti	al				
	Octano	ol-water partition	coefficien	t (log Kov	v)		
Valu	ıe	Concentration	рН	°C	Method	Evaluation	Note
-	-		-	-	-	-	-
	Biocor	ncentration factor	(BCF)				
\	Value	Spec	ies		Method	Evaluation	Note



D	ame:			GRAM S	SAFRAI	VIN 5	x CON	CENT	RATEC			
Product co	ode: S	O05X-OT-X**		Date o	of comp	oilatic	n:	12 Jun	e 2019	) \	/ersion:	4
No informa available		o inform vailable	mation No information available				No info	formation -		-		
	***************************************											
Ch	ronic ecoto	oxicity										
V	'alue	Dose		Exposure time Sp		es	Method Ev		Evalı	uation	Note	è
Chronic toxicity on fish LC <sub>50</sub>			No inforr availa	nation	No informa available		No informa availab		No inform availal		-	
Chronic toxicity on crustacea ( <i>Daphnia</i> )		No inforr availa	nation	No informa availabl				No inform availal		-		
No inf	Value	No mation information		oncentrati informati ilable	on N				Note			
		available			a	vailab	le	1	-			
Ad	Isorption /				a	vailab	le	<b>1</b>				
Ad Transport	A/D		lo	g Kow			on rate		Method		Note	
i	A/D	desorption coefficient y's constant information		g Kow formatior	Evap	poration	on rate	1	Method			
Transport	A/D Henry	desorption coefficient y's constant information e	No in availa	g Kow formation ble formation	Evap n No ii avail	ooration nformable	on rate	No ir	Method format able format	ion		



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12.6	Other adverse effects		
	No information available		
SECTIO	N 13. Disposal considerati	ons	
13.1	Waste treatment method	ds	
	:		
13.1.1.	Product/Packaging dispo	osal:	
	Submit for disposal to the Protection.	ne legal person authorized by the Ministry of Environmental and Nature	
13.1.2.	Waste codes/waste design	gnations according to Law:	
	Packaging that contains	residual hazardous substances or is contaminated with hazardous substances	
13.1.3.	Waste treatment – releva	ant information:	
	No information available		
13.1.4.	Sewage disposal – releva	ant information:	
	Waste must not be dispo	osed of into the sewage system.	
13.1.5.	Other disposal recomme	endations:	
	authorized by the minist	roduct's remains into the sewage system. Submit the remains to the collectors ry in charge. Do not dispose of the packaging into the sewage system. Submit lectors authorized by the ministry in charge.	
13.1.6.	Relevant Community pro	ovisions:	
	-		
SECTIO	N 14 TRANSPORT INFORM	MATION	
	Transporting/shipment by	road (ADR)	
UN nun	nber:	1170	
UN pro	per shipping name:	Ethanol solution	
Transpo	ort hazard class(es):	3	
Packing	group:	III	
Environ	mentally hazardous:	-	
Special	precautions for user:	-	
	Transporting/shipment by	rail (RID)	
UN num	nber:	1170	
UN prop	per shipping name:	Ethanol solution	



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Transport hazard class(es):	3
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN	
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	Ш
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (I	MDG)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	Ш
Environmentally hazardous:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (IC	AO-TI/IATA-DGR)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-
volume is not	Provision 144 – An aqueous solution containing 24% or less alcohol by subject to classification.
IATA: Special F	Provision A58 - An aqueous solution containing 24% or less alcohol by subject to classification.

SECTION	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:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council;  The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH);  EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer;  EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals;  EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants;  Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives
	Information according 1999 guideline)	/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2	Chemical safety assessment	
	None	

SECTIO	SECTION 16. Other information				
16.1	Indication of changes:	-			
16.2	Abbreviations and acronyms:	PBT vPvB LD <sub>50</sub> LC <sub>50</sub>	Stable, bioaccumulative and toxic Strongly stable and strongly bioaccumulative. Lethal dose, 50% Lethal concentration, 50%		
		TCOJ	Specific target organ toxicity - single exposure		
16.3.	Key literature references and source of data:	-			
16.4.	Classification and procedure u 1272/2008 (CLP)	sed to derive the	classification for mixture according to Regulation (EC)		
Classification		Classification pro	cedure		
_		_			
16.5. Relevant H statements (number		er and full text)			



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Trading name:	GRAM SAFRANIN 5x CONCENTRATED				
Product code:	SO05X-OT-X**	Date of compilation:	12 June 2019	Version:	4

	H: H225 H226	Highly flammable liquid and vapour. Flammable liquid and vapour.
16.6.	Training advice:	-
		** "X" in the product code marks different volumes (different packagings of the product)
16.7.	Further information:	We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.

ANNEX: Exposure scenario resulting to chemical safety assessment
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