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Trading name:	SAFRANINE O REAGENT					
Product code:	SAFO-OT-X**	Date of compilation:	21 Dec 2022	Version:	2	

SECTI	ON 1. Identification of	the substanc	e/mixture a	and of the company/undertaking		
1.1.	Product identifier					
	Trading name:	SAFRANINI	SAFRANINE O REAGENT			
	Chemical name:	-	-			
	Catalogue number:	SAFO-OT				
1.2.	Relevant identified us	es of the subs	tance or mi	xture and uses advised against		
	Uses:		Counterst	taining reagent for use in histology and cytology.		
	Uses advised against:		Only the	dentified uses are advised.		
	Reason why uses advi	sed against:	The product is intended for use only as an <i>in vitro</i> diagnos medical device, registered at the Agency for Medicinal Pro Medical Devices and there is no reason to use it for other page 1.			
1.3.	Details of the supplier	of the safety	data sheet			
	Supplier:	Ві	ioGnost Ltd			
	Address:	V	Лedjugorska 59, Zagreb			
	Telephone number: +		+385 1 2409997			
	Fax no.:	+	+385 1 2404039			
	e-mail of competent p	person: <u>m</u>	ısds@biogn	ost.hr		
	National contact:	-				
1.4.	Emergency telephone	Emergency telephone number				
	National Protection and Rescue Dire		ectorate:	112		
	riacional riocección a	na reseac bii				
	Medical information:	Ta Resear Dil		+385 1 2348 342		

SECTIO	ON 2. Hazards identification					
2.1.	Classification of the substance or	Classification of the substance or mixture				
2.1.1.	Classification according to Regula	ation (EC) No 12	272/2008 (CLP)			
	Hazard class and category	y code:	Hazard statements*:			
	Not identified as hazardous subs	tance.	-			
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Hazard-st	atements: see S	Section 16			
2.2.	Label elements					
	Product identification:	SAFRANINE (O REAGENT			
	Identification number:	-				
	Authorization no.:	-				
	Hazard pictograms:	-				



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	Signal word:	-		
	Hazard statements:	-		
	Precautionary statements:	-		
	Further information:	-		
2.3.	Other hazards			
	Endocrine Disrupting Properti	es:		
	No known endocrine disrupting properties			
	Results of PBT and vPvB assessment : According to the results of its assessment, this substance is no PBT or a vPvB.			

SECTION 3. C	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)				
477-73-6/ 207-518-8/ -	-	0.1 %	3,7-diamino-2,8-dimethyl- 5-phenylphenazinium chloride	Eye Dam.1; H318				

SECTIO	ON 4. First aid measures					
4.1.	Description of first aid measures					
	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 aider	: Treat symptomatically.				
4.2.	Most important symptoms and effects, both acute and delayed					
	FOIIOWING INNSISTION.	ccording to our findings, chemical, physical and toxicological properties of ne substance have not been entirely tested.				
	FOILOWING SKIN CONTACT:	ccording to our findings, chemical, physical and toxicological properties of ne 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 imme	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	ON 6. Accidental release meas	ures			
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 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 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 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. D not smoke.			
	Measures to prevent aerosol and dust generation:		Secure proper ventilation.		
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.		
7.1.2.	Other measures: Advice on general occupational hygiene:		-		
1.1.4.	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	horo	ughly wash hands after work and before eating		
7.2.	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating. Conditions for safe storage, including any incompatibilities				
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a weather ventilated storage rooms, and away from sources of he sunlight, and other incompatible substances.			
	Packaging materials:	Mar	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:	and che	not place the unused material in the storage room do not use empty containers for storing other micals. Do not store with incompatible materials (see tion 9).		
7.3.	Specific end use(s)				
	Recommendations:	-			
	Industrial sector specific solutions:	-			



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SECTION 8. Ex			ols/persona	l protec	tion				
8.1. Contr	ol para	meters			ı				
Subst	ance		CAS I	No			exposure limit term values	Biolo	ogical limit values
				r		ppm	mg/m³		
-			-			-	-	No inform	ation available
					ı			ı	
Substance name:	-								
EC No:	-		CAS No:	-					
DNEL									
					Inc	dustrial			
Route of		A	Acute		Acut	е	Chronic		Chronic
exposure:		effe	ect local	effe	ct sys	temic	effect loca	ıl	effect systemic
Oral		-		-			-	-	
Inhalation		-		-			-	-	
Dermal		-		-			-	-	
Critical physica	al parar	meters: s	olubility, fla	mmabili	ty, cor	rosivity:	-		
		1		1	Co	nsumer	1		
Route of			Acute		Acut		Chronic		Chronic
exposure:		effe	ect local	effe	ct sys	temic	emic effect local		effect systemic
Oral		-		-			-	-	
Inhalation		-		-			-	-	
Dermal		-		-			-	-	
PNEC						T			
Environmental	protec	tion tar	get			PNEC			
Fresh water						No information available			
Freshwater sec	diment	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 (agricultur	ral)					No information available			
Air						No infor	mation availabl	е	



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8.2.	Exposure 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 equipment				
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				
			ctive gloves must be according to the EU Directive 2016/425/EEC and ard 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 f	ctive full face mask (EN 136) or half mask (EN 140) equipped with a cor organic vapors, type "A" (boiling point >65°C) according 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 prexposure:	event	Use modern equipment.		
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.		
	Technical measures to pro	event	See Section 6		

SECTION 9. Physical and chemical properties					
9.1.	9.1. Information on basic physical and chemical properties				
		Value	Method		



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	Physical state:	liquid	No information available
	Colour:	red	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
	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
	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
.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		

SECTIO	SECTION 11. Toxicological information				
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:	-	_	-	-	-

Sensitization	on
Dermal exposure:	No information available
Inhalation exposure:	No information available

Symptoms related to the physical, chemical and toxicological characteristics					
lo information available					
lo information available					
lo information available					
lo information available					
10					



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Repeate	ed dose toxicity	(subacute, subchro	onic, chronic	c)				
	Dose	Exposure time	Species		Method	Evaluatio	n	Note
Subacute oral	No informati available	on No information available	No informatic available	on	No information available	No informati available	on	-
Subacute dermal	No informati available	on No information available	No informatio available	on	No information available	No informati available	on	-
Subacute inhalation	No informati available	on No information available	No informatio available	on	No information available	No informati available	on	_
Subchronic oral	No informati available	on No information available	No informatic available	on	No information available	No informati available	on	-
Subchronic dermal	No informati available	on No information available	No informatic available	on	No information available	No information available		-
Subchronic inhalation	No informati available	on No information available	No informatio available	on	No information available	No information available		_
Chronic oral	No informati available	on No information available	No informatio available	on	No information available	No informati available	on	_
Chronic dermal	No informati available	on No information available	No informatio available	on	No information available	No informati available	on	_
Chronic inhalation	No informati available	on No information available	No informatic available	on	No information available	No informati available	on	-
		.:	(CT	-OT D	- \.			
Specific	target organ to	xicity – repeated e Specific effects	•	OIKE	Target orga	an .		Note
Subacute oral	No info	rmation available		No in	formation avai		_	INOLE
Subacute dermal		rmation available		No information available				
Subacute inhalat		rmation available			formation avai		-	
Subchronic oral	·····	rmation available			formation avai			
Subchronic derm		rmation available			formation avai		-	
Subchronic inhal		rmation available			formation avai		-	
Chronic oral		rmation available			formation avai		-	



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Chronic dermal No informat		No informa	tion available	No information available	-		
Chronic	inhalation	No informa	tion available	No information available	-		
	CMR effects	(carcinogenicity	v, mutagenicity, rep	roductive toxicity)			
	Carcinogenic	city:	Based on avail	able data, the classification criteria a	are not met.		
	Mutagenicity	ı in-vitro:	Based on avail	able data, the classification criteria a	are not met.		
	Genotoxicity	•	Based on avail	able data, the classification criteria a	are not met.		
	Mutagenicity	ı in-vivo:	Based on avail	able data, the classification criteria a	are not met.		
	Germ cell mu	utagenicity:	Based on avail	able data, the classification criteria a	are not met.		
	Reproductive	e toxicity:	Based on available data, the classification criteria are not met.				
11.2	Information of	on other hazard	ds:				
11.2 11.2.1.		on other hazarc					
	The substacontain conhave endocraccording to Commission 2017/2100 co		does not sidered to properties cle 57(f) or ulation (EU) Regulation				
	The substacontain conhave endocraccording to Commission 2017/2100 conference (EU) 2018/6	srupting proper ance/mixture mponents con rine disrupting o REACH Artic Delegated reg or Commission 05 at levels	does not sidered to properties cle 57(f) or ulation (EU) Regulation				

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 degradation

	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	-

Biodegradation

% 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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Product	code:	SAFO-OT-X**		Date	of com	pilati	on:	21 Dec	2022	Vers	ion:	2
E	Bioconcent	ration factor (BCF)										
Val		Species		М	ethod		E [,]	valuation	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N	lote	
No inforn available	nation	No inform available		No infor available			No information available		on r			ailable
	Chronic eco	ntovicity										
	Value	Dose	Expos		Spec	ies	М	lethod	E	Evaluation		Note
Chronic to	oxicity on f	ish LC ₅₀	No informa availab	ation	No inform availab			rmation lable		information lable	-	
Chronic to	oxicity on (<i>Daphnia</i>)	EC ₅₀	No informa availab	ation	No inform availab		1	rmation lable	_	information lable	-	
ŀ	-	soil predicted distributi ation available	on in en	vironme	ental co	mpart	ment	s:				
S	Surface ten	sion:										
	Value	°C	Con	centrati	ion		Me	thod		1	lote	
i	No nformation available	No information available	No in availa	iformati able		No infa	nformation - able		-			
	Adsorption	/ desorption										
Transport	. A,	/D coefficient nry's constant	log	Kow		Evap	oratio	on rate		Method		Note
Soil-wate	No information No information		inform	ation	available		No informati available	on	-			
Water-air	No availa	information ble	No info	ormatior le	1 No	inform	ation	available	No information available		-	
Soil-air	No availa	information ble	No info	rmatior le	n No	inform	ation	available		No informati available	on	-



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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.
	-g(-, -,
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
12.7.	
	No information available
CECTIO	112 Disposal considerations
	N 13. Disposal considerations
13.1.	Waste treatment methods
13.1.1.	Product/Packaging disposal:
13.1.1.	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:
	No information available
13.1.4.	Sewage disposal – relevant information:
	Waste must not be disposed of into the sewage system.
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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SECTION 14. Transport information	
Transporting/shipment by roa	ad (ADR)
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 rai	I (RID)
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 (Al	DN)
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	a (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 enviror	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 (Viquideline)				
	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:	SAFRANINE O REAGENT				
Product code:	SAFO-OT-X**	Date of compilation:	21 Dec 2022	Version:	2

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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)			
Classification		Classification procedure		
_		-		
16.5.	Relevant H statements (numb	per and full text)		
	H: 318	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.		

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Exposure scenario resulting to Chemical safety assessment

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