

#### TISSUE MARKING DYES, 5 COLOR SET

The set contains:

Tissue marking dye, green Tissue marking dye, yellow Tissue marking dye, black Tissue marking dye, red Tissue marking dye, blue



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Trade name:	TISSUE MARKING DYES, BLACK					
Product code:	3408-3-X**	Date of compilation:	14 November 2022	Version:	5	

1.1.	Product identifier					
	Trading name:	TISSUE	MARKIN	NG DYES, BL	ACK	
	Chemical name:	-				
	Product code:	3408-3-	X**			
1.2.	Relevant identified us	es of the	substa	nce or mixtu	re and uses advised against	
	Uses:			For marking	g and orientation of tissue samples.	
	Uses advised against:			Only the ide	entified uses are advised.	
	Reason why uses advi	ised 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	r of the s	afety da	ata sheet		
	Supplier:		BioGr	nost Ltd.		
	Address:		Medju	djugorska 59, Zagreb		
	Telephone number: +:		+385	385 1 2409997		
	Telefax:		+385	1 2404039		
	e-mail of competent p	person:	msds(	<u>@biognost.h</u>	biognost.hr	
	National contact:		-			
1.4.	Emergency telephone	Emergency telephone numbers				
	National Protection a	nd Rescu	ie 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 Regulation (EC) No 1272/2008 (CLP)					
	Hazard class and cat	tegory code:	Hazard statement*:			
	Skin Irr. 2		H315			
	Eye Irr. 2		H319			
2.1.2.	Additional information					
	-					
*For the	full text of H and EUH phrase	es see Section 16.				
2.2.	Label elements					
	Product identification: TISSUE MARKING DYES, BLACK					
	Identification number:	-				
	Authorisation number:	-				



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	Hazard pictograms:	GHS07
	Signal word:	Warning
	Hazard statement:	H315 Causes skin irritation H319 Causes serious eye irritation.
	Precautionary statement:	P280 Wear protective gloves/protective clothing/eye/protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P337+P313 If eye irritation persists: Get medical advice/attention.
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
		ting properties. tains no components considered to be either persistent, bioaccumulative iistent 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)			
67-63-0/ 200-661-7/ 603-117-00-0	-	<4	propan-2-ol	Flam. Liq. 2; H225 Eye Irr. 2; H319 STOT SE 3; H336			
7664-41-7 231-635-3/ 007-001-00-5	-	<1	ammonia	Flam. Gas 2; H221 Skin Corr. 1B; H314 Acute Tox. 3; H331 Aquatic Acute 1; H400			

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.			



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	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.
	Self-protection of the first aider	-
4.2.	Most important symptom	ns and effects, both acute and delayed
	Following inhalation:	No information available.
	Following skin contact:	No information available.
	Following eye contact:	No information available.
	Following ingestion:	No information available.
4.3.	Indication of any immedi	ate medical attention and special treatment needed
	Treat symptomatically.	

SECTIO	ON 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Use dry chemical, CO <sub>2</sub> , 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 containers exposed to fire with war	ompressed air breathing apparatus and fireproof clothing. Cool closed ter spray or vapor.			
5.4.	Additional information				
	9 7	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 equipment and emergency procedures				
6.1.1.	For non-emergency personnel				



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	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 (see Section 8).	case of inadequate ventilation use adequate airways protective equipment			
6.2.	Environmental precautions:	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	ontainment 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:	ion: No information available.			
6.4.	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. The	noroughly w	ash hands after work and before eating.		
7.2.	Conditions for safe storage, including any incor	mpatibilities			
	Technical measures and storage conditions: well v		ghtly closed and upright set containers in a lated storage rooms at temperatures rom 15 to 25 °C.		
	Packaging materials:	urer's original packaging.			
	Requirements for storage rooms and vessels:	Keep awa	y from food and drink. Keep the containers osed.		



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	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:	-

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION								
8.1. Con	trol pa	rameter	S					
Substance		CAS No		•	Occupational exposure limit values/short term values		Biological limit values	
					ppm	mg/ı	m³	
Isopropanol			67-63	3-0	400/500	999/1.	.250	-
Ammonia			7664-4	1-7	20/50	14/3	36	-
Substance:	-		1	9				
EC No:	-		CAS No:	-				
DNEL								
					Industrial			
Pouto of ovno	curo	Acu	cute effect Ac		ute effect	Chronic effect		Chronic effect
Route of expo	sure.		local	systemic		local		systemic
Oral		-		-		-		-
Inhalation		36 mg.		47.6 mg		14 mg/ i		500 mg/m <sup>3</sup> (propan-2-ol) 47.6 mg/ m <sup>3</sup> (ammonia)
Dermal -		-		6.8 mg/kg bw/day (ammonia)		-		888 mg/kg bw/day (propan-2-ol) 6.8 mg/kg bw/day (ammonia)
Critical physica	Critical physical parameters: solubility, flammability, corrosivity:							
					Consumer			
Route of expo	sure:		te effect local		ute effect ystemic	Chro	onic effect local	Chronic effect systemic



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Product cod	le:	3408-3-X**	Date of co	mpilation:	14 November 2022	Version: 5	
Oral		6.8 mg/kg bw (ammonia)		-	-	26 mg/kg bw/day (propan-2-ol) 6.8 mg/kg bw/day (ammonia)	
Inhalation		-	-		-	89 mg/m³ (propan-2-ol)	
Dermal		-	6.8 mg/kg (ammonia	-	-	319 mg/kg (propan-2-ol) 6.8 mg/kg bw/day (ammonia)	
PNEC		·	·				
Environmenta	al pro	tection target		PNEC			
Fresh water				No info	rmation available		
Freshwater se	edime	nts		No info	rmation available		
Marine water	-			No information available			
Marine sedim	nents			No information available			
Food chain				No info	rmation available		
Microorganis	ms in	sewage treatment	t	No info	rmation available		
Soil (agricultu	ural)				rmation available		
Air				No information available			
		ire controls					
		oriate engineering					
to		nce/mixture relate rent exposure duri		Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	tructu xposu	ıral measures to pı ıre:	revent	No information available			
	Organi xposu	sational measures ıre:	to prevent	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.			
8.2.2. P	Personal protection equipment:						
8.2.2.1. E	NO and tace protection.		Safety glasses tested and approved under appropriate standards such as EN 166(EU).				
8.2.2.2. S	kin pr	otection:		·			
F	land p	protection:		protective	th chemical resistant glo gloves have to satisfy th 89/686/EEC and the stand		



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	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 S	ection 6	
	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:	black	No information available
Odour/odour threshold:	faint ammonia	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:	> 93.3 °C	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
pH:	8.5 -10.0	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	1.02 - 1.14 (20°C)	No information available



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	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).			

SECTION	N 11. Toxi	cological information	1					
11.1.	Informat	ion on toxicological eff	ects					
	Acute toxicity:							
Route of exposure		Method	Species	Effect Dos LD <sub>50</sub> /LC ATE <sub>mi</sub>	se C <sub>50</sub> or	Exposur time	e	Results
Oral:		No information available	rat	LDs	50	No informati available	(2-propanoll)	
Dermal:		No information available	rabbit	LD	LD <sub>50</sub> info			12.800 mg/kg (2-propanol)
Inhalation:		No information available	rat	LCs	50	8 h (isopropar 4 h (ammoni		37.5 mg/l (2-propanol) 9.850 mg/m³ air (ammonia)
	Specific	target organ toxicity - s	single exposure (S	STOT-SE):				
		Spec	ific effects		Targ	get organ		Note
Oral:		No information availa	able		-		-	_



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						<u>'</u>	age 9 or 17		
Trade name:			•	TISSUE MARK	ING DYES, BLA	CK			
Product code:	3408-3	-X**	Date of	compilation:	14 November	2022	Version: 5		
Dermal:	No inf	ormatio	n available		_				
Inhalation:			n available		_	<u>-</u>			
illialation.	INO IIII	Jimatio	TI available						
Aspira	ation hazard	 d:							
		<u> </u>							
Irritati	on and cor	rosion							
÷		Exp	osure time	Species	Evaluation	Method	Note		
Skin corrosion/i	rritation:	No availa	information able	rabbit	-	_	mild skin irritation		
Serious irritation	າ to eyes:	No availa	information able	rabbit	24 h	-	eye irritation		
	:+:								
	ization			·					
Skin sensitizatio			e an allergic sk ersons may dis						
sensitization:				. ,					
Symn	toms relate	d to ph	veical chemics	al, and toxicolog	ical properties				
Oral exposure:	torris relate	•	•		• •	swallowed			
Dermal exposur	ь.		o known specific symptoms. May cause discomfort if swallowed.  o known specific symptoms. May cause discomfort.						
Inhalation expos			No known specific symptoms. May cause discomfort.  No known specific symptoms. Aerosols/vapor may cause respiratory system irritation.						
Eye exposure:					ause mild eye irrit				
			, ,	, ,					
Repea	ted dose to	oxicity (	subacute, subo	chronic, chronic)					
	Dos	e	Exposure time	Species	Method	Evaluation	Note		
Subacute oral	No inforr available	nation	No information available	No information available	No information available	No information available	No information available		
Subacute dermal	e No information available		No information available	No information available	No information available	No information available	No information available		
Subacute inhalation	No inforr available	nation	No information available	No information available	No information available	No information available	No information available		
Subchronic oral	No inforr available	nation	No information available	No information available	No information available	No information available	No information available		



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Subchronic dermal	No information available	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	No information available
Chronic oral	No information available	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	No information available
Chronic inhalation	No information available	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	No information available
Subacute dermal	No information available	No information available	No information available
Subacute inhalation	No information available	No information available	No information available
Subchronic oral	No information available	No information available	No information available
Subchronic dermal	No information available	No information available	No information available
Subchronic inhalation	No information available	No information available	No information available
Chronic oral	No information available	No information available	No information available
Chronic dermal	No information available	No information available	No information available
Chronic inhalation	No information available	No information available	No information available

CMR effects (carcinogenicity, mutagenicity, reproductive toxicity)



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	Carcinogenicity:	Product not classified as a carcinogen by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), or the Occupational Safety and Health Administration (OSHA).				
	Mutagenicity in-vitro:	No information available				
	Genotoxicity:	No information available				
	Mutagenicity in-vivo:	No information available				
	Germ cell mutagenicity:	No information available				
	Reproductive toxicity:	No information available				
	Summary of evaluation of the CMR properties:	No information available				
11.2.	Information on other hazards:					
11.2.1.	Endocrine disrupting properties:					
	No known endocrine disrupting properties that affect human health.					
11.2.2.	Other informations:					
	-					

SECTION 12. Ecologic	al informa	ition				
12.1. Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	Pimephales promelas (fathead minnow)	-	-	9.640 mg/l (2-propanol)
Crustacea:	EC <sub>50</sub>	48 hours	Daphnia magna (water flea)	-	-	13.299 mg/l (2-propanol) 25.4 mg/l (ammonia)
Algae/aquatic plants:	IC <sub>50</sub>	72 hours	Desmodesmus subspicatus (green algae)	-	-	>1.000 mg/l (2-propanol)
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Doza	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	-	_	-	-
Crustacea:	EC <sub>50</sub>	48 hours	-	-	-	-



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Trade name	:			T	ISSUE MAR	KING I	DYES, BLAC	K			
Product cod	de:	3408-3-X**	[	Date of o	compilation:	14 [	November 2	022	V	ersion:	5
Algae/aquati	c plan	ts: IC <sub>50</sub>	72 ho	urs -		-	-		-		
Other organi	sms	-	-	-		-	-		-		
12.2. Per	sisten	ce and degra	dability								
Abi	iotic d	egradation		2							
	D	egradation h	alf-lives		Method			Evalua	tion		Note
Marine water	No i	information available		No ii	No information available		No info	rmation	availab	ole -	-
Fresh water	No i	nformation av	/ailable	No ii	nformation av	ailable	No info	rmation	availab	ole -	•
Air	No i	nformation av	/ailable	No ii	nformation av	ailable	No info	rmation	availab	ole -	-
Soil	No i	nformation av	/ailable	No ii	nformation av	ailable	No info	rmation	availak	ole -	-
	•										
Bic	degra	dation									
% Degradat	ion	Time (c	days)		Method		Evaluation			Note	
No informati available	on	No informati available	on	No ii avail	nformation able	No ii avail	nformation able	-			
	i_			i		i		i			
12.3. Bio	accum	nulative poter	ntial								
		water partitio		ent (log	Kow)						
Value		ncentration	рН	°C	Method	d	Evaluati	on	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Note	
No		nformation	-	_	No informa		No informat		-		
information	avail	able			available		available				
available											
	conce	entration Facto				1					
Value		Speci			Method		Evaluation			Note	
No informati available	on	No informati available	on	No ir availa	nformation		o information ailable	-			
avaiiable		available		availe	able	av	aliable				
Ch	ronic 4	ecotoxicity									
			Fvn	osure							
Valu	ıe	Dose		ime	Species		Method	Evalu	ation	No	ote



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Produc	t code:	3408	3-3-X**	Date of o	compila	ation: 14 N	ovembe	er 2022	Version: 5
Chronic	toxicity	on fish	LC <sub>50</sub>	No No information available available		ble ava	information inform available available		n -
Chronic toxicity on EC <sub>50</sub>		No information available	No inform availa	1	ormation ilable	No informatio available	n -		
12.4.	Mobil	lity in soi	l						
	Know	n or pred	dicted dist	ribution in envir	onment	al compartme	nts:		
	Surfac	ce tensio	n:						
	Val	ue	°C	Concent	ration	Me	thod		Note
	No inforn n avai	natio i	No nformatio Ivailable	No inform available	nation			-	
Transpo		A/D co	desorption pefficient	log Kow	, E	Evaporation ra	te	Method	Note
	rt N	A/D co Henry's No inforr	pefficient constant	log Kow	tion N	No information	n Noi	nformation	Note -
Transpo Soil-wat Water-a	rt Ner a	A/D co Henry's No inforr available No inforr	pefficient s constant nation	log Kow No informa available No informa	tion N a tion N	No information Ivailable No information	n Noi avai n Noi	nformation lable nformation	Note -
Soil-wat	rt Ner a	A/D co Henry's No inforr available No inforr available No inforr	pefficient s constant nation nation	No informa available No informa available No informa	tion Nation Nation Nation N	No information available No information available No information	n No i avai n No i avai n No i	nformation lable nformation lable nformation	-
Soil-wat Water-a	rt Ner a	A/D co Henry's No informavailable No informavailable	pefficient s constant nation nation	log Kow No informa available No informa available	tion Nation Nation Nation N	No information vailable No information vailable	n No i avai n No i avai n No i	nformation lable nformation lable	-
Soil-wat Water-a	rt Nair Nair Nair Nair Nair Nair Nair Nair	A/D control A/D co	pefficient s constant nation nation and vPvB	log Kow  No information available  No information available  No information available  assessment	tion N ation N ation N a	No information available No information available No information available	n No i avai n No i avai n No i avai	nformation lable nformation lable nformation lable	-
Soil-wat Water-a Soil-air	rt N a N a Result	A/D con Henry's No information	pefficient s constant nation nation and vPvB	No informative available No informative available No informative available No informative available	tion N a a tion N a	No information available No information available No information available s considered t	n No i avai n No i avai	nformation lable information lable information lable er persistent, k	- - - pioaccumulative
Soil-wat Water-a Soil-air 12.5.	rt	A/D control A/D co	nation  and vPvB e/mixture of	log Kow  No information available  No information available  No information available  assessment contains no compersistent and verification available	tion N a a tion N a	No information available No information available No information available s considered t	n No i avai n No i avai	nformation lable information lable information lable er persistent, k	- - - pioaccumulative
Soil-wat Water-a Soil-air 12.5.	rt  er  ir  a  Result  This st and to  Endoc  The st	A/D control A/D co	pefficient s constant nation nation and vPvB e/mixture o ), or very property of the constant o	log Kow  No information available  No information available  No information available  assessment contains no compersistent and verifications no compensations no co	tion N a a tion N a a ponent ery bioa	No information available No information available No information available s considered to ccumulative (value)	n No i avai n No i avai n No i avai n No i avai vai	nformation lable information lable information lable er persistent, kevels of 0.1% of	
Soil-wat Water-a Soil-air	rt	A/D control A/D co	pefficient s constant nation nation and vPvB e/mixture of the property of the	log Kow  No information available  No information available  No information available  assessment contains no compersistent and verifications	tion N a a tion N a a ponent ery bioa compo	No information available No information available No information available s considered to ccumulative (vector)	n No i avai n No i avai n No i avai n No i avai n vo be eith (PvB) at le	nformation lable information lable information lable er persistent, kevels of 0.1% of	
Soil-wat Water-a Soil-air 12.5.	rt	A/D control A/D co	efficient constant nation nation and vPvB e/mixture of the condition of th	log Kow  No information available  No information available  No information available  assessment  contains no compersistent and verboperties  does not contain  REACH Article 5	tion N a a tion N a a ponent ery bioa compo	No information available No information available No information available s considered to ccumulative (vector)	n No i avai n No i avai n No i avai n No i avai n vo be eith (PvB) at le	nformation lable information lable information lable er persistent, kevels of 0.1% of	



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Trade name:	TISSUE MARKING DYES, BLACK				
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13.1.	Waste treatment method	1c
13.1.	waste treatment method	
13.1.1.	Product/Packaging dis	posal:
	Submit for disposal to Protection.	the legal person authorized by the Ministry of Environmental and Nature
13.1.2.	Waste codes/waste de	signations according to Law:
	Disposal must be mad	e according to official regulations.
13.1.3.	Waste treatment – rele	vant information:
	No information availab	ole
13.1.4.	Sewage disposal – rele	vant information:
	Waste must not be dis	posed of into the sewage system.
13.1.5.	Other disposal recomm	nendations:
	authorized by the mini	product's remains into the sewage system. Submit the remains to the collectors stry in charge. Do not dispose of the packaging into the sewage system. to the collectors authorized by the ministry in charge.
13.1.6.	Relevant Community p	rovisions:
	-	
SECTION	N 14. Transport informa	tion
	Transporting/shipment	
UN num		Not regulated
UN prop	er shipping name:	-
Transpo	rt hazard class(es):	-
Packing	group:	-
Environr	nental hazards:	-
Special p	precautions for user:	-
•	Transporting/shipment	by rail (RID)
UN num		Not regulated
UN prop	er shipping name:	
	rt hazard class(es):	
Transpo	it Hazaru Class(es).	



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Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by inla	nd waterways (ADN)
UN number:	Not regulated
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by sea	(IMDG)
UN number:	Not regulated
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 regulated
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Further information: -	

SECTIO	TION 15. Regulatory information					
15.1.	Safety, health and en	Safety, health and environmental regulations/legislation specific for the substance or mixture				
	EU regulations	EU regulations				
	Authorisation and/or	restrictions on use				
	Authorisations: -					
	Restrictions:	-				



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	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 1 guideline)	1999/13/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 assessn	nent
	-	

SECTIO	N 16. Other information	
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.



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Т	rade name:	TISSUE MARKING DYES, BLACK				
Р	roduct code:	3408-3-X**	Date of compilation:	14 November 2022	Version:	5

16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)				
Classific	Sification Classification procedure		Classification procedure		
_			-		
16.5.	Rele	vant H statements (nu	mber and full text)		
		221	Flammable gas.		
		225	Highly flammable liquid and vapour.		
		314	Causes severe skin burns and eye damage.		
	H:	315	Causes skin irritation.		
	п.	319	Causes serious eye irritation.		
		331	Toxic if inhaled.		
		336	May cause drowsiness or dizziness.		
		400	Very toxic to aquatic life.		
16.6.	Trair	ning advice:	-		
	16.7. Further information:		"X" in the product code marks different volumes (different packaging of the product)		
16.7.			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:	<b>Exposure</b>	scenario	resulting	to Chemical	safety	assessment

-



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Trade name:					
Product code:	3408-5-X**	Date of compilation:	14 November 2022	Version:	5

1.1.	Product identifier					
	Trading name:	TISSUE MARKING DYES, BLUE				
	Chemical name:	-				
	Product code:	3408-5-	3408-5-X**			
1.2.	Relevant identified us	es of the	substa	ance or mixtu	re and uses advised against	
	Uses:			For marking	g and orientation of tissue samples.	
	Uses advised against:			Only the id	entified uses are advised.	
	Reason why uses advised against:		nst:	The product is intended for use only as an <i>in vitro</i> diagnostic medical device and there is no reason to use it for other purposes.		
1.3.	Details of the supplier of the safety data sheet					
	Supplier:		BioGnost Ltd.			
	Address:	Address:		Medjugorska 59, Zagreb		
	Telephone number:	Telephone number:		+385 1 2409997		
	Telefax:	Telefax: +3		+385 1 2404039		
	e-mail of competent p	person:	<u>msds</u>	nsds@biognost.hr		
	National contact:		-			
1.4.	Emergency telephone numbers					
	National Protection and Rescue Direction		ctorate:	112		
	Medical information:				+385 1 2348 342	
	Other information:				-	

SECTIO	N 2. Hazards identification			
2.1.	Classification of the substance or mixture			
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)			
	Hazard class and ca	tegory code:	Hazard statement*:	
	Skin Irr. 2		H315	
	Eye Irr. 2		H319	
2.1.2.	Additional information			
	-			
*For the	full text of H and EUH phras	es see Section 16.		
2.2.	Label elements			
	Product identification: TISSUE MARKING DYES, BLUE			
	Identification number:	-		
	Authorisation number:	-		



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Trade name:	TISSUE MARKING DYES, BLUE					
Product code:	3408-5-X**	Date of compilation:	14 November 2022	Version:	5	

	Hazard pictograms:	GHS07		
	Signal word:	Warning		
	Hazard statement:	H315 Causes skin irritation H319 Causes serious eye irritation.		
	Precautionary statement:	P280 Wear protective gloves/protective clothing/eye/protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P337+P313 If eye irritation persists: Get medical advice/attention.		
	Supplemetal hazard information (EU):	-		
2.3.	Other hazards			
		oting properties. tains no components considered to be either persistent, bioaccumulative sistent 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)			
67-63-0/ 200-661-7/ 603-117-00-0	-	<4	propan-2-ol	Flam. Liq. 2; H225 Eye Irr. 2; H319 STOT SE 3; H336			
7664-41-7 231-635-3/ 007-001-00-5	-	<1	ammonia	Flam. Gas 2; H221 Skin Corr. 1B; H314 Acute Tox. 3; H331 Aquatic Acute 1; H400			

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.			



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Trade name:	TISSUE MARKING DYES, BLUE						
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	Treat symptomatically.	
4.3.	Indication of any immedia	ate medical attention and special treatment needed
	Following ingestion:	No information available.
	Following eye contact:	No information available.
	Following skin contact:	No information available.
	Following inhalation:	No information available.
4.2.	Most important symptom	s and effects, both acute and delayed
	Self-protection of the first aider	-
	Following ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water.
	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 skin contact:	Wash off with soap and plenty of water. If irritation occurs and persists: Get medical advice.
	Following inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Get medical advice.

SECTIO	ON 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Use dry chemical, CO <sub>2</sub> , 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	ubstance 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	king due to increase in pressure. Remove sources of heat and environment 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			



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	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 (see Section 8).	case of inadequate ventilation use adequate airways protective equipment		
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 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			
	-			

SECTIO	N 7. Handling and storage				
7.1.	Precautions for safe handling				
7.1.1.	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	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. Th	oroughly w	ash hands after work and before eating.		
7.2.	Conditions for safe storage, including any incom	npatibilities			
	Technical measures and storage conditions:  Keep in tightly closed and upright set containers 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.			



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Product code:	3408-5-X**	Date of compilation:	14 November 2022	Version:	5	

	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:	-

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION** 

8.1. Control pa	rameters					
Substance		CAS No	•	Occupational exposure limit values/short term values		iological limit values
			ppm	mg/m	1 <sup>3</sup>	
Isopropanol		67-63-0	400/500	999/1.2	250	-
Ammonia	7	664-41-7	20/50	14/3	5	-
ï						
Substance: -				1		
EC No: -	CAS	No: -				
DNEL						
			Industrial			
Doute of expecure	Acute effect Acu		cute effect	Chronic effect		Chronic effect
Route of exposure:	local	9	systemic	ystemic I		systemic
Oral	-	-	- -			-
Inhalation	36 mg/ m <sup>3</sup> (ammonia)	47.6 m	•	14 mg/ m³ (ammonia)		500 mg/m <sup>3</sup> (propan-2-ol) 47.6 mg/ m <sup>3</sup> (ammonia)
Dermal	-	_	6.8 mg/kg bw/day (ammonia)			888 mg/kg bw/day (propan-2-ol) 6.8 mg/kg bw/day (ammonia)
Critical physical para	meters: solubi	lity, flammabi	lity, corrosivity:		-	
			Consumer			
Route of exposure:	Acute effe		cute effect systemic	Chronic effect		Chronic effect systemic



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Trade na	ame:		TIS	SUE MAF	RKING D	YES, BLUE	rage 0 01 17	
Product	code:	3408-5-X**	Date of co	mpilation	: 14 N	ovember 202	22 Version: 5	
	!			'				
Oral		-	6.8 mg/kg k (ammonia)	ow/day	-		26 mg/kg bw/day (propan-2-ol) 6.8 mg/kg bw/day (ammonia)	
Inhalatio	n	-	-		-		89 mg/m³ (propan-2-ol)	
Dermal		-	6.8 mg/kg k (ammonia)	ow/day	-		319 mg/kg (propan-2-ol) 6.8 mg/kg bw/day (ammonia)	
PNEC								
Environm	nental prote	ection target		PNEC				
Fresh wat	ter			No info	rmation a	vailable		
Freshwat	er sedimen	ts		No info	rmation a	vailable		
Marine w	ater			No info	rmation a	vailable		
Marine se	ediments			No info	rmation a	vailable		
Food cha	in			No information available				
Microorg	anisms in s	sewage treatment		No information available				
Soil (agri	cultural)			No info	rmation a	vailable		
Air				No information available				
8.2.	Exposur	e controls						
8.2.1.	Appropi	riate engineering co	ntrols					
		ce/mixture related r ent exposure during	identified	Use persoi smoke in t	•		nt. Do not eat, drink or	
	Structur exposur	al measures to preve e:	ent	No inform	ation ava	ilable		
	Organis exposur	ational measures to e:	•	-		rk in order to r ork process.	educe other worker's	
	Technica exposur	al measures to preve e:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.				
8.2.2.	Persona	l protection equipm	ent:					
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 pro	tection:	rection:					
	Hand pr	otection:		protective	gloves ha	ave to satisfy t	oves. The selected he specifications of EU ndard EN 374 derived from	



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

Information on basic physical	and chemical properties	
	Value	Method
Physical state:	liquid	No information available
Colour:	blue	No information available
Odour/odour threshold:	faint ammonia	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:	> 93.3 °C	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
pH:	8.5 -10.0	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	1.02 - 1.14 (20°C)	No information available



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	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).					

SECTIO	V 11. Toxi	cological information	1								
11.1.	Informati	formation on toxicological effects									
	Acute to	ute toxicity:									
Route of exposure		Method	Species	Effect Dos LD <sub>50</sub> /LC ATE <sub>mix</sub>	e Exposu C <sub>50</sub> or time	re Results					
Oral:		No information available	rat	LD₅	No informat availab	(2-propanoll)	ı				
Dermal:		No information available	rabbit	LD₅	No informat availab	(2-propanol)					
Inhalation:		No information available	rat	LC <sub>5</sub>	8 h (isopropa 4 h (ammon	9.850 mg/m³ ai	ir				
	Specific t	target organ toxicity - s	single exposure (	STOT-SE):							
	Specific effects				Target organ	Note					
Oral:		No information availa	able		-	-					



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Trade name:				TISSUE MARK	ING DYES, BL	UE				
Product code:	3408	3408-5-X** Date o		of compilation:	compilation: 14 November 2022			5		
Dermal:	No in	formatio	on available		_	_				
Inhalation:			n available		_					
Timalation.	140 111	1011114110	TH dvallable							
Aspira	ation haza	rd:		-						
: · ·			:							
Irritat	ion and co	rrosion								
		Exp	oosure time	Species	Evaluation	Method	Note			
Skin corrosion/i	rritation:	No availa	information able	rabbit	-	-	mild skin irritation			
Serious irritation	n to eyes:	No availa	information able	rabbit	24 h	<b>-</b>	eye irritatio	n		
	tization	-								
Skin sensitizatio	on: N	lay cause	e an allergic sk	in reaction.						
Respiratory sensitization:	А	llergic p	ersons may dis	play irritation.						
	<u> </u>									
Symp	toms relat	ed to ph	ysical, chemica	al, and toxicologic	cal properties					
Oral exposure:		No kno	own specific sy	mptoms. May ca	use discomfort it	swallowed.				
Dermal exposur	e:	No kno	own specific sy	mptoms. May ca	use discomfort.					
Inhalation expo	sure:	No kno	known specific symptoms. Aerosols/vapor may cause respiratory system irritation.							
Eye exposure:		No kno	known specific symptoms. May cause mild eye irritation.							
Repea	ated dose	toxicity (	subacute, subo	chronic, chronic)						
	Do	se	Exposure time	Species	Method	Evaluation	Note			
Subacute oral	No infor		No information available	No information available	No information available	No information available	No information	on		
Subacute No information dermal available			No information available	No information available	No information available	No information available	No information	on		
Subacute No informinhalation available			No information available	No information available	No information available	No information available	No information	on		
Subchronic oral	No infor		No information available	No information available	No information available	No information available	No information	on		



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Subchronic dermal	No information available	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	No information available
Chronic oral	No information available	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	No information available
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	No information available

Specific target	organ toxicity -	. reneated	evnosure	(STOT-RF)
Specific target	Ordan toxicity -	rebeated	exposure	SIOI-NEI.

	Specific effects	Target organ	Note
Subacute oral	No information available	No information available	No information available
Subacute dermal	No information available	No information available	No information available
Subacute inhalation	No information available	No information available	No information available
Subchronic oral	No information available	No information available	No information available
Subchronic dermal	No information available	No information available	No information available
Subchronic inhalation	No information available	No information available	No information available
Chronic oral	No information available	No information available	No information available
Chronic dermal	No information available	No information available	No information available
Chronic inhalation	No information available	No information available	No information available

CMR effects (carcinogenicity, mutagenicity, reproductive toxicity)



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Trade name:		TISSUE MARK	ING DYES, BLUE		
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	Carcinogenicity:	Product not classified as a carcinogen by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), or the Occupational Safety and Health Administration (OSHA).
	Mutagenicity in-vitro:	No information available
	Genotoxicity:	No information available
	Mutagenicity in-vivo:	No information available
	Germ cell mutagenicity:	No information available
	Reproductive toxicity:	No information available
	Summary of evaluation of the CMR properties:	No information available
11.2.	Information on other hazards:	
11.2.1.	Endocrine disrupting properties:	
	No known endocrine disrupting properties that affect human health.	
11.2.2.	Other informations:	
	-	

SECTION 12. Ecologic	al informa	ation				
12.1. Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	Pimephales promelas (fathead minnow)	-	-	9.640 mg/l (2-propanol)
Crustacea:	EC <sub>50</sub>	48 hours	Daphnia magna (water flea)	-	-	13.299 mg/l (2-propanol) 25.4 mg/l (ammonia)
Algae/aquatic plants:	IC <sub>50</sub>	72 hours	Desmodesmus subspicatus (green algae)	-	-	>1.000 mg/l (2-propanol)
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Doza	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	-	_	-	-
Crustacea:	EC <sub>50</sub>	48 hours	-	-	-	-



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Trade name	:		TISSUE MARKING DYES, BLUE								
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Algae/aquation	······	nts: IC <sub>50</sub>	72 ho	ours -		-	-		-		
Other organis	sms	_	_	-			_				
		nce and degra	dability								
Abi		degradation					-			<del>,</del>	
		Degradation h	alf-lives		Method			Evalu	ation		Note
Marine water	No	information a	vailable	No ir	nformation ava	ailable	No info	rmatio	n availab	ole	_
Fresh water	No	information a	vailable	No ir	nformation ava	ailable	No info	rmatio	n availab	ole	-
Air	No	information a	vailable	No ir	nformation ava	ailable	No info	rmatio	n availab	ole	-
Soil	No	information a	vailable	No ir	nformation ava	ailable	No info	rmatio	n availab	ole	-
Bio	degr	adation						_			
% Degradati	on	Time (	days)		Method		Evaluation			Note	
No information	on	No informat	ion	No information available			No information available		-		
available		available		avail	avie	avalla	anie				
	_										
12.3. Bioa	accur	mulative poter	ntial								
		-water partitio		ient (log l	(ow)						
Value	1	ncentration	рН	°C	Method	l l	Evaluati	on		Note	
No		information	-	-	No informat		No informat		-		
information		ilable			available		available				
available											
				-					_		
			/5								
	conc	entration Fact			NA -1 - 1		F. 1			N.1 -	
Value No information	<u></u>	Spec No informat		NI-:	Method nformation	N.I -	Evaluation information			Note	
No information available	ווט	No informat available	IUII	No ir availa			information ailable	_	-		
				2.40111			- · <del>-</del>				
		:		i		<u> </u>		<u> </u>			
Chr	onic	ecotoxicity									
Valu		Dose		oosure ime	Species	ſ	Method	Eval	uation	N	Note



									Pa	ge 13 of 17	
Trade n	iame:			7	ΓISSUE	MARK	ING DY	ES, BLU	E		
Product code:		340	8-5-X**	Date of	compil	ation:	14 No	vember	2022	Version:	5
Chronic toxicity on fish		fish	LC <sub>50</sub>	No information available	No inform availab		No inform availab	1	No information available	-	
	toxicity or a (Daphni		EC <sub>50</sub>	No information available	No inform availab		No inform availab	1	No information available	-	
12.4.	Mobility	in soil									
	Known c	r pred	icted distr	ibution in enviro	onmenta	al compa	artments	:			
	Surface t	ensior									
	Value	N I	°C	Concent		NI - i - i	Metho			Note	
	No informatio n available		o Iformation vailable	No information available		No information available		-			
Transpo	rt H	A/D co enry's	efficient constant	log Kow		vaporati			ethod	Note	
Soil-wat	er	inform Iable	nation	No informat available		o inforn vailable	nation	No info	ormation le	-	
Water-a	ır	inform lable	nation	No informat available		o inforn vailable	nation	No info	ormation le	-	
Soil-air		inform lable	nation	No informat available		o inforn vailable	nation	No info	ormation le	-	
12.5.	Results o	of PRT	and vPvR	assessment							
	This sub	stance,	/mixture c	ontains no com							'e
	and toxic	. (۲ĎI)	, or very p	ersistent and ve	ту Біоас	.cumula	uve (VPV	b) at ieve	15 UI U.1% Or	nigner.	
	Endocrin	e disru	upting pro	perties							
12.6.		· <u></u>	/mixture d	oes not contain	-		nsidered				
12.6.	propertie	es acco	ording to F	REACH Article 57 EU) 2018/605 a				-	gulation (EU)	2017/2100 o	r
12.6.	propertie	es acco sion Re	ording to F egulation (	REACH Article 57				-	gulation (EU)	2017/2100 o	r



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12.1	N 13. Disposal considera	
13.1.	Waste treatment method	35
13.1.1.	Product/Packaging dis	posal:
	Submit for disposal to Protection.	the legal person authorized by the Ministry of Environmental and Nature
13.1.2.	Waste codes/waste de	signations according to Law:
	Disposal must be made	e according to official regulations.
13.1.3.	Waste treatment – rele	vant information:
	No information availab	ole
13.1.4.	Sewage disposal – rele	vant information:
		posed of into the sewage system.
13.1.5.	Other disposal recomn	nendations:
	authorized by the mini	product's remains into the sewage system. Submit the remains to the collectors stry in charge. Do not dispose of the packaging into the sewage system. Submit ollectors authorized by the ministry in charge.
13.1.6.	Relevant Community p	
	-	
SECTION	N 14. Transport informa	tion
	Transporting/shipment	
UN num		Not regulated
UN prop	er shipping name:	-
Transpo	rt hazard class(es):	-
Packing	group:	-
Environmental hazards:		-
Special precautions for user:		-
•	Transporting/shipment	by rail (RID)
UN num	ber:	Not regulated
UN prop	er shipping name:	
	rt hazard class(es):	-
Hallspoi		



Trade name:

#### SAFETY DATA SHEET According to Regulation (EC) No. 1907/2006

**TISSUE MARKING DYES, BLUE** 

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

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Product code:	3408-5-X**	Date of compilation:	14 November 2022	Version:	5			
Environmental haz		-						
Special precaution		-						
Transpoi	rting/shipment by inla	nd waterways (ADN)						
UN number:		Not regulated						
UN proper shippin	g name:	-						
Transport hazard o	lass(es):	-						
Packing group:		-						
Environmental haz	ards:	-						
Special precaution	s for user:	-						
Transpoi	rting/shipment by sea	(IMDG)						
UN number:		Not regulated						
UN proper shippin	g name:	-						
Transport hazard o	:lass(es):	-						
Packing group:		-						
Environmental haz	ards:	-						
Special precaution	s for user:	-						
Transport in bulk a of MARPOL73/78 a	according to Annex II and the IBC code:	-						
Transpoi	rting/shipment by air (	(ICAO-TI/IATA-DGR)						
UN number:		Not regulated						
UN proper shippin	g name:	-						
Transport hazard o	:lass(es):	-						
Packing group:		-						
Environmental haz	ards:	-						
Special precaution	s for user:	-						
Further information	n: -							

SECTIO	SECTION 15. Regulatory information							
15.1.	Safety, health and en	Safety, health and environmental regulations/legislation specific for the substance or mixture						
	EU regulations							
	Authorisation and/or	restrictions on use						
	Authorisations:	-						
	Restrictions:	-						



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	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-guideline)				
	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 assessn	nent			
	-				

SECTIO	SECTION 16. Other information				
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.			



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Trade name:	TISSUE MARKING DYES, BLUE				
Product code:	3408-5-X**	Date of compilation:	14 November 2022	Version:	5

16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC 1272/2008 (CLP)					
Classific	Classification		Classification procedure			
_	-		-			
16.5.	Rele	vant H statements (nu	mber and full text)			
		221	Flammable gas.			
		225	Highly flammable liquid and vapour.			
		314	Causes severe skin burns and eye damage.			
	11.	315	Causes skin irritation.			
	H:	319	Causes serious eye irritation.			
		331	Toxic if inhaled.			
		336	May cause drowsiness or dizziness.			
		400	Very toxic to aquatic life.			
16.6.	Training advice:		-			
			"X" in the product code marks different volumes (different packaging of the product)			
16.7. Further information:		ner 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.			

<b>ANNEX: Exposure scenario</b>	resulting to Chemical	safety assessment

-



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Trade name:	TISSUE MARKING DYES, GREEN				
Product code:	3408-1-X**	Date of compilation:	14 November 2022	Version:	5

1.1.	Product identifier					
	Trading name:	TISSUE N	/ARKII	EEN		
	Chemical name:	-				
	Product code:	3408-1-X**				
1.2.	Relevant identified uses of the substance or mixture and uses advised against					
	Uses:			For marking	g and orientation of tissue samples.	
	Uses advised against:			Only the id	entified uses are advised.	
	Reason why uses advised against:		nst:	The product is intended for use only as an <i>in vitro</i> diagnostic medical device and there is no reason to use it for other purposes.		
1.3.	Details of the supplier	Details of the supplier of the safety data sheet				
	Supplier: E		BioGr	BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Telefax:		+385 1 2404039			
	e-mail of competent person:		msds@biognost.hr			
	National contact:		-			
1.4.	Emergency telephone numbers					
	National Protection and Rescue Direc		e Direc	ctorate:	112	
	Medical information:				+385 1 2348 342	
	Other information:				-	

SECTION 2. Hazards identification						
2.1.	Classification of the substance or mixture					
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)					
	Hazard class and category code: Hazard statement*:					
	Skin Irr. 2		H315			
	Eye Irr. 2		H319			
2.1.2.	Additional information					
	-					
*For the	For the full text of H and EUH phrases see Section 16.					
2.2.	Label elements					
	Product identification: TISSUE MARKING DYES, GREEN					
	Identification number: -					
	Authorisation number: -					



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Trade name:		TISSUE MARKING	G DYES, GREEN		
Product code:	3408-1-X**	Date of compilation: 1	14 November 2022	Version:	5

	Hazard pictograms:	GHS07
	Signal word:	Warning
	Hazard statement:	H315 Causes skin irritation H319 Causes serious eye irritation.
	Precautionary statement:	P280 Wear protective gloves/protective clothing/eye/protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P337+P313 If eye irritation persists: Get medical advice/attention.
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
		tains no components considered to be either persistent, bioaccumulative sistent 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)		
67-63-0/ 200-661-7/ 603-117-00-0	-	<4	propan-2-ol	Flam. Liq. 2; H225 Eye Irr. 2; H319 STOT SE 3; H336		
7664-41-7 231-635-3/ 007-001-00-5	-	<1	ammonia	Flam. Gas 2; H221 Skin Corr. 1B; H314 Acute Tox. 3; H331 Aquatic Acute 1; H400		

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.		



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4.3.	Indication of any immediate medical attention and special treatment needed				
	Following ingestion:	No information available.			
	Following eye contact:	No information available.			
	Following skin contact:	No information available.			
	Following inhalation:	No information available.			
4.2.	Most important symptoms and effects, both acute and delayed				
	Self-protection of the first aider	-			
	Following ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water.			
	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 skin contact:	Wash off with soap and plenty of water. If irritation occurs and persists: Get medical advice.			
	Following inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Get medical advice.			

SECTIO	ON 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Use dry chemical, CO <sub>2</sub> , 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	ubstance 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 of containers exposed to fire with wa	compressed air breathing apparatus and fireproof clothing. Cool closed ter spray or vapor.			
5.4.	Additional information				
	9	king due to increase in pressure. Remove sources of heat and environment with extinguishing media.			

SECTION 6. Accidental release measures			
6.1.	Personal precautions, protective equipment and emergency procedures		
6.1.1.	For non-emergency personnel		



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Trade name:	TISSUE MARKING DYES, GREEN					
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	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).			
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 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			
	-			

SECTIO	N 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 incor	npatibilities			
	Technical measures and storage conditions:	well venti	ightly closed and upright set containers in a lated storage rooms at temperatures rom 15 to 25 °C.		
	Packaging materials:	Manufact	urer's original packaging.		
	Requirements for storage rooms and vessels:	Keep awa	y from food and drink. Keep the containers osed.		



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Trade name:	TISSUE MARKING DYES, GREEN				
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	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:	-

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION** 

8.1. Control pa	rameter	'S						
Substance		CAS No		Occupational exposure limit values/short term values			Biological limit values	
				ppm	mg/ı	m³		
Isopropanol		67-63	-0	400/500	999/1.	.250	-	
Ammonia		7664-4	1-7	20/50	14/3	36	-	
Substance: -								
EC No: -		CAS No:	_					
DNEL								
				Industrial				
Route of exposure:	Acute effect		Ac	Acute effect		onic effect	Chronic effect	
Route of exposure.		local s		ystemic	local		systemic	
Oral	-		-		-		-	
Inhalation	36 mg		47.6 mg	•	14 mg/ (ammon		500 mg/m <sup>3</sup> (propan-2-ol) 47.6 mg/ m <sup>3</sup> (ammonia)	
Dermal	-		6.8 mg/kg (ammonia		-		888 mg/kg bw/day (propan-2-ol) 6.8 mg/kg bw/day (ammonia)	
Critical physical para	meters:	solubility, fla	ammabil	ity, corrosivity:		-	·	
				Consumer				
Route of exposure:		te effect local		ute effect ystemic	Chro	onic effect local	Chronic effect systemic	



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Trade na	ame:		TIS	SUE MAR	KING DYES, GR	EEN		
Product	code:	3408-1-X**	Date of co	ompilation	: 14 Novembe	er 2022 Version: 5		
Oral		-	6.8 mg/kg (ammonia)	bw/day	-	26 mg/kg bw/day (propan-2-ol) 6.8 mg/kg bw/day (ammonia)		
Inhalatio	n	_	_		-	89 mg/m³ (propan-2-ol)		
Dermal		-	6.8 mg/kg (ammonia)	-	-	319 mg/kg (propan-2-ol) 6.8 mg/kg bw/day (ammonia)		
PNEC				1				
Environm	nental prote	ection target		PNEC				
Fresh wa	ter			No info	rmation available			
Freshwat	er sedimer	nts		No info	rmation available			
Marine w	ater			No info	rmation available			
Marine se	ediments			No information available				
Food cha	nin			No information available				
Microorg	janisms in s	sewage treatment		No information available				
Soil (agri	cultural)			No information available				
Air				No info	rmation available			
8.2.	Exposur	e controls						
8.2.1.		riate engineering co						
		ce/mixture related ent exposure during		•	nal protective equ he workspace.	ipment. Do not eat, drink or		
	Structur exposur	ral measures to prev	rent	No information available				
	Organis exposur		I measures to prevent Organization of work in order to reduce other work influence during work process.					
	Technic exposur	al measures to prev e:	ent	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.				
8.2.2.	Persona	l protection equipm	nent:					
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 pro	otection:						
	Hand pı	rotection:		protective	gloves have to sa	ant gloves. The selected stisfy the specifications of EU se standard EN 374 derived from		



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Trade name:		TISSUE MARKING DYES, GREEN						
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	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 Section 6			
	Structural measures to prevent exposure:	Use ı	modern equipment.		
	Organisational measures to prevent exposure:		ot the work process to the required working conditions of the cplace.		
	Technical measures to prevent exposure:	See S	Section 6		

Information on basic physica	l and chemical properties	
	Value	Method
Physical state:	liquid	No information available
Colour:	green	No information available
Odour/odour threshold:	faint ammonia	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:	> 93.3 °C	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature	No information available	No information available
рН:	8.5 -10.0	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	1.02 - 1.14 (20°C)	No information available



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Trade name:		TISSUE MARKING DYES, GREEN						
Product code:	3408-1-X**	Date of compilation:	14 November 2022	Version:	5			

	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).					

SECTIO	N 11. Tox	icological information								
11.1.	Informat	on on toxicological effects								
	Acute to	xicity:								
Route o exposur		Method	Species	Effect Dos LD <sub>50</sub> /LC ATE <sub>mix</sub>	se C <sub>50</sub> or	Exposur time	e	Results		
Oral:		No information available	rat	LD <sub>5</sub>	50	No information available		5.840 mg/kg (2-propanoll)		
Dermal:		No information available	rabbit	LD <sub>5</sub>	50	No information available		12.800 mg/kg (2-propanol)		
Inhalatio	on:	No information available	rat	LC <sub>50</sub> (isopro		8 h (isopropanol) 4 h (ammonia)		37.5 mg/l (2-propanol) 9.850 mg/m³ air (ammonia)		
	Specific	target organ toxicity - s	single exposure (	(STOT-SE):			•			
			ific effects	,	Tarq	et organ		Note		
Oral:		No information availa			-		_			



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Trade name:				TISSUE MARKI	NG DYES, GRI		age 9 of 17		
Product code:	3408	-1-X**		of compilation:	14 Novembe		Version:	5	
	i			•			į		
Dermal:	No inf	ormatio	n available		-	-			
Inhalation:	No inf	ormatio	n available		-	-			
Α .									
Aspir	ation hazar	d:		-					
Irritat	ion and co	rrosion							
	.ion and co		oosure time	Species	Evaluation	Method	Note		
Skin corrosion/	irritation:	No availa	information	rabbit	-	-	mild skin irritation		
Serious irritatio	n to eyes:	No availa	information able	rabbit	24 h	-	eye irritatior	า	
Sensi	tization								
Skin sensitization	on: M	ay cause	e an allergic sk	in reaction.					
Respiratory sensitization:	Al	lergic pe	ersons may dis	play irritation.					
		1. 1							
	toms relate		•	al, and toxicologic		- cuallowed			
Oral exposure:  Dermal exposure	ro			mptoms. May cau		swallowed.			
Inhalation expo						ise respiratory	system irritatio	 ∩n	
Eye exposure:	Juic.		known specific symptoms. Aerosols/vapor may cause respiratory system irritation. known specific symptoms. May cause mild eye irritation.						
7				,	· · · · · · · · · · · · · · · · · · ·				
Repe	ated dose t	oxicity (	subacute, sub	chronic, chronic)					
·	Dos	se .	Exposure time	Species	Method	Evaluation	Note		
Subacute oral	No infor		No information available	No information available	No information available	No information available	No informatio available	'n	
Subacute dermal	No infor		No information available	No information available	No information available	No information available	No informatio available	'n	
Subacute inhalation	No infor		No information available	No information available	No information available	No information available	No informatio available	'n	
Subchronic oral	No infor		No information available	No information available	No information available	No information available	No informatio available	'n	



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Trade name:		TISSUE MARKING DYES, GREEN						
Product code:	3408-1-X**	Date of compilation:	14 November 2022	Version:	5			

Subchronic dermal	No information available	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	No information available
Chronic oral	No information available	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	No information available
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	No information available

Specific target or	Specific target organ toxicity - repeated exposure (STOT-RE):									
	Specific effects	Target organ	Note							
Subacute oral	No information available	No information available	No information available							
Subacute dermal	No information available	No information available	No information available							
Subacute inhalation	No information available	No information available	No information available							
Subchronic oral	No information available	No information available	No information available							
Subchronic dermal	No information available	No information available	No information available							
Subchronic inhalation	No information available	No information available	No information available							
Chronic oral	No information available	No information available	No information available							
Chronic dermal	No information available	No information available	No information available							
Chronic inhalation	No information available	No information available	No information available							

CMR effects (carcinogenicity, mutagenicity, reproductive toxicity)



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Trade name:		TISSUE MARKING DYES, GREEN								
Product code:	3408-1-X**	Date of compilation:	14 November 2022	Version:	5					

	Carcinogenicity:	Product not classified as a carcinogen by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), or the Occupational Safety and Health Administration (OSHA).
	Mutagenicity in-vitro:	No information available
	Genotoxicity:	No information available
	Mutagenicity in-vivo:	No information available
	Germ cell mutagenicity:	No information available
	Reproductive toxicity:	No information available
	Summary of evaluation of the CMR properties:	No information available
11.2.	Information on other hazards:	
11.2.1.	Endocrine disrupting properties:	
	No known endocrine disrupting properties that affect human health.	
11.2.2.	Other informations:	
	-	

SECTION 12. Ecologic	SECTION 12. Ecological information										
12.1. Toxicity											
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note					
Fish	LC <sub>50</sub>	96 hours	Pimephales promelas (fathead minnow)	-	-	9.640 mg/l (2-propanol)					
Crustacea:	EC <sub>50</sub>	48 hours	Daphnia magna (water flea)	-	-	13.299 mg/l (2-propanol) 25.4 mg/l (ammonia)					
Algae/aquatic plants:	IC <sub>50</sub>	72 hours	Desmodesmus subspicatus (green algae)	-	-	>1.000 mg/l (2-propanol)					
Other organisms	-	-	-	-	-	-					
Chronic (long-term) toxicity	Doza	Exposure time	Species	Method	Evaluation	Note					
Fish	LC <sub>50</sub>	96 hours	-	-	-	-					
Crustacea:	EC <sub>50</sub>	48 hours	-	-	-	-					



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Trade name	<b>:</b> :				ISSUE MAR	KING	DYES, GREI	EN		
Product cod	de:	3408-1-X	<b>*</b> *	Date o	Date of compilation: 14 No		November	2022	Versio	n: 5
Algae/aquati	ic plant	s: IC <sub>50</sub>	72 hc	ours -		-	-		-	
Other organi	isms	-	-	-		-	-		-	
12.2. Per	rsistenc	e and degra	adability							
Ab	iotic de	egradation		9						*
	De	egradation h	nalf-lives		Method			Evaluation	า	Note
Marine water	No ir	nformation a	ıvailable	No i	nformation av	ailable	No info	ormation ava	ailable	_
Fresh water	No ir	nformation a	ıvailable	No i	nformation av	ailable	No info	rmation ava	ailable	_
Air	No ir	nformation a	ıvailable	No i	nformation av	ailable	No info	rmation ava	ailable	-
Soil	No ir	nformation a	ıvailable	No i	nformation av	ailable	No info	rmation ava	ailable	_
Bio	odegrad	dation								
% Degradat	ion	Time (	days)		Method		Evaluation		Note	
No informati available		No informat available	ion	No i avail	nformation able	No ir availa	nformation able	-		
12.3. Bio	accum	ulative pote	ntial							
Oc	tanol-v	vater partitio	on coeffic	ient (log	Kow)					
Value	Con	centration	рН	°C	Method		Evaluati	on	Note	;
No information available	No ir availa	nformation able	-	-	No informat available	ion	No informat available	tion -		
Bio	oconce	ntration Fac	tor (BCF)					:		
Value		Spec			Method		Evaluation		Note	
No informati		No informat	ion		nformation		information	- -		
available		available		avail	abie	ava	ailable			
Ch	ronic e	cotoxicity								
Valu		Dose	. c	oosure time	Species		Method	Evaluatio	on N	Note
				uiiie						



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Trade r	name:			7	TISSUE I	MARKII	NG DYE	S, GREE	:N		
Produc	t code	e: 34	08-1-X**	Date of	f compil	lation:	14 No	vember	2022	Version:	
Chronic	toxicit	ty on fish	LC <sub>50</sub>	No information available	No inform availab		No informa availab	1	No informatio available	n -	
Chronic		-	EC <sub>50</sub>	No information available	No inform availab		No informa availab	1	No informatio available	n -	
12.4.	Mob	oility in soi	il								
				ibution in envir	onmenta	al compa	rtments	•			
	Cf.	ace tensio									
		alue	°C	Concent	tration		Metho	od		Note	
		rmatio i	No nformation available	No inforn available	nation	No infavailat	formation		-		
Soil-wa	ter	Henry's No inforr available No inforr		available	No information No info			No info availabl	rmation e rmation	Note -	
Water-a	air	available No inforr	nation	available No informa	tion N	available ion No informat				-	
12.5.	This	substance	e/mixture c	assessment ontains no comersistent and ve	nponents			•	oersistent, l	pioaccumulative or higher.	
12.6.	Endo	ocrine disi	rupting pro	perties							
	prop	erties acc	ording to F	oes not contair REACH Article 5 EU) 2018/605 a	7(f) or C	ommissi	on Deleg	gated reg		disrupting I) 2017/2100 or	
12.7.	Othe	er adverse	effects								



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Trade name:		TISSUE MARKING DYES, GREEN							
Product code:	3408-1-X**	Date of compilation:	14 November 2022	Version:	5				

13.1.	Waste treatment method	1c				
13.1.	waste treatment method					
13.1.1.	Product/Packaging dis	posal:				
	Submit for disposal to Protection.	the legal person authorized by the Ministry of Environmental and Nature				
13.1.2.	Waste codes/waste de	signations according to Law:				
	Disposal must be mad	e according to official regulations.				
13.1.3.	Waste treatment – rele	vant information:				
	No information availab	ole				
13.1.4.	Sewage disposal – rele	vant information:				
	Waste must not be dis	posed of into the sewage system.				
13.1.5.	Other disposal recomn	nendations:				
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collect 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.					
13.1.6.	Relevant Community p	rovisions:				
	-					
SECTION	N 14. Transport informa	tion				
0_0	Transporting/shipment					
UN num		Not regulated				
	er shipping name:	-				
	t hazard class(es):	-				
Packing		-				
	nental hazards:	-				
Special p	precautions for user:	-				
<u> </u>	Transporting/shipment	by rail (RID)				
UN num		Not regulated				
	er shipping name:	-				
Transpoi	t hazard class(es):	- · · · · · · · · · · · · · · · · · · ·				



Trade name:

### **SAFETY DATA SHEET**

**TISSUE MARKING DYES, GREEN** 

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

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Product code:	3408-1-X**	Date of compliation:	14 November 2022	version. 5			
:							
Environmental hazards:		-					
Special precautions for user:		-					
Transporti	ng/shipment by inla	nd waterways (ADN)					
UN number:		Not regulated					
UN proper shipping	name:	-					
Transport hazard cla	iss(es):	-					
Packing group:		-					
Environmental hazar	rds:	-					
Special precautions	for user:	-					
Transporti	ng/shipment by sea	(IMDG)					
UN number:		Not regulated					
UN proper shipping name:		-					
Transport hazard cla	iss(es):	-					
Packing group:		-					
Environmental hazar	rds:	-					
Special precautions	for user:	-					
Transport in bulk ac of MARPOL73/78 an		-					
Transporti	ng/shipment by air (	ICAO-TI/IATA-DGR)					
UN number:		Not regulated					
UN proper shipping	name:	-					
Transport hazard cla	iss(es):	-					
Packing group:		-					
Environmental hazar	rds:	-					
Special precautions	for user:	-					
Further information:	_						

SECTIO	TION 15. Regulatory information								
15.1.	Safety, health and env	Safety, health and environmental regulations/legislation specific for the substance or mixture							
	EU regulations	EU regulations							
	Authorisation and/or	restrictions on use							
	Authorisations:	-							
	Restrictions:	-							



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Trade name:		TISSUE MARKING DYES, GREEN							
Product code:	3408-1-X**	Date of compilation:	14 November 2022	Version:	5				

	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 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
15.2.	Chemical safety assessn	nent
	-	

SECTIO	N 16. Other information	
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.



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Trade name:					
Product code:	3408-1-X**	Date of compilation:	14 November 2022	Version:	5

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.	Rele	vant H statements (nu	mber and full text)			
		221	Flammable gas.			
		225	Highly flammable liquid and vapour.			
		314	Causes severe skin burns and eye damage.			
		315	Causes skin irritation.			
	H:	319	Causes serious eye irritation.			
		331	Toxic if inhaled.			
		336	May cause drowsiness or dizziness.			
		400	Very toxic to aquatic life.			
16.6.	Trair	ning advice:	-			
46.7	16.7. Further information:		"X" in the product code marks different volumes (different packaging of the product)			
16.7.			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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Trade name:	TISSUE MARKING DYES, RED					
Product code:	3408-4-X**	Date of compilation:	14 November 2022	Version:	5	

1.1.	Product identifier					
	Trading name:	TISSUE MARKING DYES, RED				
	Chemical name:	-				
	Product code:	3408-4-	X**			
1.2.	Relevant identified us	es of the	substa	nce or mixt	ure and uses advised against	
	Uses:			For markir	ng and orientation of tissue samples.	
	Uses advised against:			Only the id	dentified uses are advised.	
	Reason why uses advised against:		nst:	The product is intended for use only as an <i>in vitro</i> diagnostic medical device anfd there is no reason to use it for other purposes.		
1.3.	Details of the supplier of the safety data sheet					
	Supplier:		BioGr	BioGnost Ltd.		
	Address:		Medjı	Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997			
	Telefax:		+385	+385 1 2404039		
	e-mail of competent p	person:	<u>msds</u>	msds@biognost.hr		
	National contact:		-			
1.4.	Emergency telephone numbers					
	National Protection a	National Protection and Rescue Dire		torate:	112	
	Medical information:				+385 1 2348 342	
	Other information:				-	

SECTIO	ECTION 2. Hazards identification					
2.1.	Classification of the substa	nce or mixture				
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)					
	Hazard class and ca	itegory code:	Hazard state	ement*:		
	Skin Irr. 2		H315			
	Eye Irr. 2		H319			
2.1.2.	Additional information					
	-					
*For the	e full text of H and EUH phras	es see Section 16.				
2.2.	Label elements					
	Product identification:	TISSUE MARKI	NG DYES, RED			
	Identification number: -					
	Authorisation number:	-				



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Trade name:					
Product code:	3408-4-X**	Date of compilation:	14 November 2022	Version:	5

	Hazard pictograms:	GHS07
	Signal word:	Warning
	Hazard statement:	H315 Causes skin irritation H319 Causes serious eye irritation.
	Precautionary statement:	P280 Wear protective gloves/protective clothing/eye/protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P337+P313 If eye irritation persists: Get medical advice/attention.
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
		oting properties. tains no components considered to be either persistent, bioaccumulative sistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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)		
67-63-0/ 200-661-7/ 603-117-00-0	-	<4	propan-2-ol	Flam. Liq. 2; H225 Eye Irr. 2; H319 STOT SE 3; H336		
7664-41-7 231-635-3/ 007-001-00-5	-	<1	ammonia	Flam. Gas 2; H221 Skin Corr. 1B; H314 Acute Tox. 3; H331 Aquatic Acute 1; H400		

S	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.		



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Trade name:	TISSUE MARKING DYES, RED					
Product code:	3408-4-X**	Date of compilation:	14 November 2022	Version:	5	

	Treat symptomatically.	
4.3.	Indication of any immedia	ate medical attention and special treatment needed
	Following ingestion:	No information available.
	Following eye contact:	No information available.
	Following skin contact:	No information available.
	Following inhalation:	No information available.
4.2.	Most important symptom	ns and effects, both acute and delayed
	Self-protection of the first aider	-
	Following ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water.
	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 skin contact:	Wash off with soap and plenty of water. If irritation occurs and persists: Get medical advice.
	Following inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Get medical advice.

SECTIO	ON 5. Firefighting measures					
5.1.	Extinguishing media					
	Suitable extinguishing media:	Use dry chemical, CO <sub>2</sub> , 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 substance 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					
	3 ,	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 equipment and emergency procedures			
6.1.1.	For non-emergency personnel			



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Trade name:	TISSUE MARKING DYES, RED					
Product code:	3408-4-X**	Date of compilation:	14 November 2022	Version:	5	

	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).					
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	ontainment 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					
	-					

SECTIO	CTION 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 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 w	ash hands after work and before eating.				
7.2.	Conditions for safe storage, including any incom	patibilities					
	Technical measures and storage conditions:  Keep in tightly closed and upright set contain well ventilated storage rooms at temperatures ranging from 15 to 25 °C.						
	Packaging materials:	Manufact	urer's original packaging.				
	Requirements for storage rooms and vessels:	Keep awa	y from food and drink. Keep the containers osed.				



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Trade name:	TISSUE MARKING DYES, RED					
Product code:	3408-4-X**	Date of compilation:	14 November 2022	Version:	5	

	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:	-

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION							
8.1. Control	paramete	rs					
Substance		CAS No		•	Occupational exposure limit values/short term values		Biological limit values
				ppm	mg/m³		
Isopropanol		67-63	3-0	400/500	999/1.250		-
Ammonia		7664-4	1-7	20/50	14/36		-
Substance: -							
EC No: -		CAS No:	-				
DNEL							
				Industrial			
Route of exposure:		te effect local	Acute effect systemic		Chronic effect local		Chronic effect systemic
Oral	-		-	<i>,</i>	-		-
Inhalation	36 mg/ m³ 47.6 mg/ m³			14 mg/ m³ (ammonia)		500 mg/m <sup>3</sup> (propan-2-ol) 47.6 mg/ m <sup>3</sup> (ammonia)	
i Dermai I - I		_	3 mg/kg bw/day mmonia)			888 mg/kg bw/day (propan-2-ol) 6.8 mg/kg bw/day (ammonia)	
Critical physical p	arameters:	solubility, fl	ammabil	ity, corrosivity:	-		
				Consumer			
Route of exposure	e: Acu	ite effect local		ute effect ystemic	Chronic e local		Chronic effect systemic



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		1				Page 6 of 17	
Trade na	ame:		TI	ISSUE MAF	RKING DYES, RED		
Product	code:	3408-4-X**	Date of co	mpilation:	14 November 2022	Version: 5	
Oral		-	6.8 mg/kg (ammonia)	-	-	26 mg/kg bw/day (propan-2-ol) 6.8 mg/kg bw/day (ammonia)	
Inhalation	า	-	-		-	89 mg/m³ (propan-2-ol)	
Dermal		-	6.8 mg/kg (ammonia)	-	-	319 mg/kg (propan-2-ol) 6.8 mg/kg bw/day (ammonia)	
PNEC							
Environm	ental pro	otection target		PNEC			
Fresh wat	Fresh water			No info	rmation available		
Freshwate	Freshwater sediments			No info	rmation available		
Marine water			No info	rmation available			
Marine se	Marine sediments			No information available			
Food cha	Food chain			No information available			
Microorga	Microorganisms in sewage treatment			No information available			
Soil (agric	Soil (agricultural)			No information available			
Air				No info	rmation available		
	1						
8.2.	Expos	ure controls					
8.2.1.	Appro	priate engineering	controls				
		ance/mixture relate vent exposure duri		•	nal protective equipment he workspace.	t. Do not eat, drink or	
	Struct	ural measures to p ure:	revent	No informa	ation available		
	Organ expos	isational measures ure:	to prevent	Organization of work in order to reduce other worker's influence during work process.			
	Techn expos	ical measures to pr ure:	revent	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.			
8.2.2.	Persor	nal protection equi	pment:				
8.2.2.1.	Eye ar	nd face protection:			ses tested and approved such as EN 166(EU).	d under appropriate	
8.2.2.2.	Skin p	rotection:					
	Hand	protection:		protective	h chemical resistant glov gloves have to satisfy th 9/686/EEC and the stand		



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Trade name:	TISSUE MARKING DYES, RED					
Product code:	3408-4-X**	Date of compilation:	14 November 2022	Version:	5	

	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 :	Section 6		
	Structural measures to prevent exposure:	Use modern equipment.  Adapt the work process to the required working conditions of the workplace.			
	Organisational measures to prevent exposure:				
	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/odour threshold:	faint ammonia	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:	> 93.3 °C	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
pH:	8.5 -10.0	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	1.02 - 1.14 (20°C)	No information available



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Trade name:		TISSUE MARKING DYES, RED						
Product code:	3408-4-X**	Date of compilation:	14 November 2022	Version:	5			

	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).						

SECTIO	N 11. Toxi	cological information	1						
11.1.	Informati	nation on toxicological effects							
	Acute to	kicity:							
Route of exposure		Method	Species	Effect Dos LD <sub>50</sub> /LC ATE <sub>mi</sub>	se C <sub>50</sub> or	Exposure time	O	Results	
Oral:		No information available	rat	LDs	LD <sub>50</sub> i		on e	5.840 mg/kg (2-propanoll)	
Dermal:		No information available	rabbit	LD	LD <sub>50</sub>		on e	12.800 mg/kg (2-propanol)	
Inhalation:		No information available	rat	LC <sub>5</sub>	LC <sub>50</sub>		iol) a)	37.5 mg/l (2-propanol) 9.850 mg/m³ air (ammonia)	
Specific target organ toxicity - single exposure (STOT-SE):									
		Specific effects				jet organ		Note	
Oral:		No information availa	able		_		-		



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Γ	1						Pag	ge 9 of 17	
Trade name:				TISSUE MAR	KING DYES, RE	D			
Product code:	3408-	4-X**	Date of	compilation:	14 November	2022		Version:	5
Dermal:	No in	formatio	n available		-		_		
Inhalation:	No in	formatio	n available		-		-		
Δsnira	ation hazar	.q.		_					
7.0011	1011 110201	<u>u.</u>							
Irritat	on and co	rrosion							
		Exp	oosure time	Species	Evaluation	M	lethod	Note	Э
Skin corrosion/i	rritation:	No availa	information able	rabbit	-	-		mild skin irritation	
Serious irritation	n to eyes:	No availa	information able	rabbit	24 h	-		eye irritati	ion
	ization								
Skin sensitizatio	n: M	ay cause	e an allergic sk	in reaction.					
Respiratory sensitization:	Al	lergic p	ersons may dis	play irritation.					
Symn	toms relati	ed to ph	vsical chemica	al, and toxicologi	ical properties				
Oral exposure:			-		ause discomfort it	f swall	owed.		
Dermal exposur	e:	No kno	own specific sy	mptoms. May ca	use discomfort.				
Inhalation expo	sure:	No kno	s known specific symptoms. Aerosols/vapor may cause respiratory system irritation.						
Eye exposure:		No kno	lo known specific symptoms. May cause mild eye irritation.						
Repea	ited dose t	toxicity (	subacute, subo	chronic, chronic)					
	Dos	se	Exposure time	Species	Method	Eval	uation	Note	
Subacute oral	No infor available		No information available	No information available	No information available		rmation lable	No informat available	
Subacute dermal	No infor available		No information available	No information available	No information available		rmation lable	No informat available	
Subacute inhalation	No information		No information available	No information available	No information available		rmation lable	No informat available	
Subchronic oral	No infor available		No information available	No information available	No information available		rmation lable	No informat available	



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Trade name:		TISSUE MARKING DYES, RED						
Product code:	3408-4-X**	Date of compilation:	14 November 2022	Version:	5			

Subchronic dermal	No information available	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	No information available
Chronic oral	No information available	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	No information available
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	No information available

Specific target	organ toxicity -	renested	evnosure	(STOT-RF)
Specific target	ordan toxicity -	rebeated	exposure	(3101-KE).

	Specific effects	Target organ	Note
Subacute oral	No information available	No information available	No information available
Subacute dermal	No information available	No information available	No information available
Subacute inhalation	No information available	No information available	No information available
Subchronic oral	No information available	No information available	No information available
Subchronic dermal	No information available	No information available	No information available
Subchronic inhalation	No information available	No information available	No information available
Chronic oral	No information available	No information available	No information available
Chronic dermal	No information available	No information available	No information available
Chronic inhalation	No information available	No information available	No information available

CMR effects (carcinogenicity, mutagenicity, reproductive toxicity)



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Trade name:		TISSUE MARKING DYES, RED							
Product code:	3408-4-X**	Date of compilation:	14 November 2022	Version:	5				

	Carcinogenicity:	Product not classified as a carcinogen by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), or the Occupational Safety and Health Administration (OSHA).			
	Mutagenicity in-vitro:	No information available			
	Genotoxicity:	No information available			
	Mutagenicity in-vivo:	No information available			
	Germ cell mutagenicity:	No information available			
	Reproductive toxicity:	No information available			
	Summary of evaluation of the CMR properties:	No information available			
11.2.	Information on other hazards:				
11.2.1.	Endocrine disrupting properties:				
	No known endocrine disrupting properties that affect human health.				
11.2.2.	Other informations:				
	-				

SECTION 12. Ecologic	SECTION 12. Ecological information					
12.1. Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	Pimephales promelas (fathead minnow)	-	-	9.640 mg/l (2-propanol)
Crustacea:	EC <sub>50</sub>	48 hours	Daphnia magna (water flea)	-	-	13.299 mg/l (2-propanol) 25.4 mg/l (ammonia)
Algae/aquatic plants:	IC <sub>50</sub>	72 hours	Desmodesmus subspicatus (green algae)	-	-	>1.000 mg/l (2-propanol)
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Doza	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	-	-	-	-
Crustacea:	EC <sub>50</sub>	48 hours	-	-	-	-



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Trade name	e:				TISSUE MAI	RKING	DYES, RED			
Product cod	de:	3408-4-X**	D	ate of	compilation:	14	November 2	2022	Versio	on: 5
Alasa /sausti	ام مام م	)+c:	72 haum							
Algae/aquati	······		72 hour			-			-	
Other organi	sms	-	<b>-</b>	-		-	-		-	
12.2. Per	.cicton	as and dears	امامانانا							
		ce and degrad	авшу							
AU		Degradation ha	olf lives		Method			Evaluation		Note
Marine	L	regradation na	all-lives		Method			Evaluation	JII	Note
water	No i	information av	ailable	No i	nformation av	ailable	No info	rmation a	vailable	-
Fresh water	No i	information av	ailable	No i	nformation av	ailable	No info	rmation a	vailable	-
Air	No i	information av	ailable	No i	nformation av	ailable	No info	rmation a	vailable	-
Soil	No i	information av	ailable	No i	nformation av	ailable	No info	rmation a	vailable	-
Bic	degra	adation								
% Degradat	ion	Time (d	ays)		Method		Evaluation		Not	e
No informati	on	No information	on	No information			No information -			
available		available		avaı	lable	avail	able			
12.3. Bio	accun	nulative poten	tial							
		water partition		nt (log	Kow)					
Value		ncentration	рН	°C	Method	1	Evaluati	on	No	nte
No		information	- P''	-	No informat		No information -			
information	avai	lable			available		available			
available										
D:-			(DCE)							
Value	conce	entration Facto Speci			Method		Fueluetion		Nati	_
No informati	on	No information		No i		Nc	Evaluation  No information		Note	<del></del>
available		available	511				available -			
Ch	ronic	ecotoxicity								
Valu	ıe	Dose	Expo: tim		Species		Method	Evaluat	ion	Note



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	name:			•	TISSUE	MARK	(ING DY	'ES, REC			
Produc	ct code:	3408	3-4-X**	Date of compilation:		ation:	14 Nov	ember 2	.022	Version:	5
Chronic	toxicity o	on fish	LC <sub>50</sub>	No information available	information information		information ir		No information available	-	
	c toxicity o ea (Daphr		EC <sub>50</sub>	No information available	No inform availat		No inform availab		No information available	-	
12.4.	Mobilit	y in soil	<u> </u>								
				ribution in enviro	onment	al comp	artments	•			
	Curfoss	e tensior									
	Valu		°C	Concent	ration		Metho	od		Note	
	No informa n availa	atio ir	lo nformatior vailable		information No ir		nformation		-	Note	
	ort No	A/D co Henry's o inform	desorption pefficient constant nation	log Kow	tion N	Evaporat Io inforr		No info	ethod rmation	Note -	
Soil-wa	ter No	A/D co Henry's o inform railable o inform	pefficient constant nation	No informat available No informat	tion N ation N	lo inforr vailable lo inforr	nation	No info availab No info	rmation e rmation		
Transpo Soil-wa Water-a Soil-air	ter No av	A/D co Henry's o inform ailable	pefficient constant nation	log Kow No informat available	tion Nation Nation Nation N	lo inforr vailable	nation mation	No info availab No info availab	rmation e rmation e rmation		
Soil-wa	ter No av No av Results	A/D co Henry's o informaliable o informaliable o informaliable o informaliable	pefficient constant nation nation and vPvB	No informat available No informat available No informat available	tion N artion N ar	lo inforr vailable lo inforr vailable lo inforr vailable	mation mation mation	No info availab No info availab No info availab	rmation le rmation le rmation le	-	
Soil-wa Water-a Soil-air	ter No av No av Results	A/D co Henry's o informaliable o informaliable o informaliable o informaliable o of PBT bstance	pefficient constant nation nation and vPvB	No informat available No informat available No informat available	tion N artion N artion N artion N artion artion ponents	lo inforr vailable lo inforr vailable lo inforr vailable	nation mation mation ered to b	No info availab No info availab No info availab	rmation le rmation le rmation le	- - oaccumulati	ve
Soil-wa Water-a Soil-air 12.5.	ter av No av Results This su and tox	A/D co Henry's o informaliable o informaliable o informaliable o informaliable of PBT bstance	pefficient constant nation nation and vPvB	log Kow  No informat available No informat available No informat available assessment contains no com persistent and ve	tion N artion N artion N artion N artion artion ponents	lo inforr vailable lo inforr vailable lo inforr vailable	nation mation mation ered to b	No info availab No info availab No info availab	rmation le rmation le rmation le	- - oaccumulati	ve
Soil-wa Water-a Soil-air	Results This su and too	A/D con Henry's point in a disrupties according to the control of	pefficient constant nation nation and vPvB e/mixture constant vPvB e/mixture vPvB e/mixture constant vPvB e/mixture vPvB e/mixtur	log Kow  No informat available No informat available No informat available assessment contains no com persistent and ve	tion Nation Nati	lo inforr vailable lo inforr vailable lo inforr vailable s conside ccumula	mation mation mation ered to be tive (vPv)	No info availab No info availab No info availab e either p B) at leve	rmation le rmation e rmation e rmation le cersistent, bid ls of 0.1% or endocrine di	oaccumulatinhigher.	
Soil-wa Water-a Soil-air 12.5.	Results This su and too  Endocr The sul proper Commi	A/D con Henry's point in a disrupties according to the control of	efficient constant nation nation and vPvB e/mixture constant vPvB e/mixture vPvB	No information available No information available No information available assessment contains no compersistent and versistent	tion Nation Nati	lo inforr vailable lo inforr vailable lo inforr vailable s conside ccumula	mation mation mation ered to be tive (vPv)	No info availab No info availab No info availab e either p B) at leve	rmation le rmation e rmation e rmation le cersistent, bid ls of 0.1% or endocrine di	oaccumulatinhigher.	



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Trade name:		TISSUE MARI	KING DYES, RED		
Product code:	3408-4-X**	Date of compilation:	14 November 2022	Version:	5

13.1.	Waste treatment method	S
13.1.1.	Product/Packaging disp	oosal:
	Submit for disposal to t Protection.	he legal person authorized by the Ministry of Environmental and Nature
13.1.2.	Waste codes/waste des	ignations according to Law:
	Disposal must be made	according to official regulations.
13.1.3.	Waste treatment – relev	vant information:
	No information availab	е
13.1.4.	Sewage disposal – relev	vant information:
	Waste must not be disp	osed of into the sewage system.
13.1.5.	Other disposal recomm	endations:
	authorized by the minis	product's remains into the sewage system. Submit the remains to the collectors stry in charge. Do not dispose of the packaging into the sewage system. Submit ollectors authorized by the ministry in charge.
13.1.6.	Relevant Community p	
	-	
SECTION	N 14. Transport informat	ion
	Transporting/shipment b	y road (ADR)
UN num	ber:	Not regulated
UN prop	er shipping name:	-
Transpoi	rt hazard class(es):	-
Packing group:		-
Environmental hazards:		-
Special precautions for user:		-
Transporting/shipment by rail		y rail (RID)
UN num	ber:	Not regulated
UN prop	er shipping name:	-
Transpoi	rt hazard class(es):	-
Packing	group:	-



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Trade name:		TISSUE MAR	KING DYES, RED		
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Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by inla	nd waterways (ADN)
UN number:	Not regulated
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by sea	(IMDG)
UN number:	Not regulated
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 regulated
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Further information: -	

SECTIO	SECTION 15. Regulatory information				
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture				
	EU regulations				
	Authorisation and/or	restrictions on use			
	Authorisations:	-			
	Restrictions:	-			



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Trade name:	TISSUE MARKING DYES, RED				
Product code:	3408-4-X**	Date of compilation:	14 November 2022	Version:	5

dangerous substances, Ordinance on occupational exposure limit von biological limit values, Regulation on categories, types and class of waste with a waste catalog and list of hazardous waste, Ordinance writing Material safety data sheet, Transport of Hazardous Substantian	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 (EC) 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);
dangerous substances, Ordinance on occupational exposure limit von biological limit values, Regulation on categories, types and class of waste with a waste catalog and list of hazardous waste, Ordinance writing Material safety data sheet, Transport of Hazardous Substantian		_	999/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National l	egislation:	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	15.2. Chemical	safety assessme	ent

SECTIO	ECTION 16. Other information				
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.			



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Trade name:	TISSUE MARKING DYES, RED				
Product code:	3408-4-X**	Date of compilation:	14 November 2022	Version:	5

16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)				
Classific	cation		Classification procedure		
_			-		
16.5.	Rele	vant H statements (nu	mber and full text)		
	H:	221 225 314 315 319 331 336 400	Flammable gas. Highly flammable liquid and vapour. Causes severe skin burns and eye damage. Causes skin irritation. Causes serious eye irritation. Toxic if inhaled. May cause drowsiness or dizziness. Very toxic to aquatic life.		
16.6.	Trair	ning 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
-



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Trade name:		TISSUE MARKIN	IG DYES, YELLOW	<u> </u>	
Product code:	3408-2-X**	Date of compilation:	14 November 2022	Version:	5

1.1.	Product identifier				
	Trading name:	TISSUE	TISSUE MARKING DYES, YELLOW		
	Chemical name:	-			
	Product code:	3408-2-	·X**		
1.2.	Relevant identified	uses of the	substa	ance or mixtu	re and uses advised against
	Uses:			For marking	and orientation of tissue samples.
	Uses advised against:			Only the ide	entified uses are advised.
	Reason why uses advised against:		nst:	The product is intended for use only as an <i>in vitro</i> diagnostic medical device and there is no reason to use it for other purposes.	
1.3.	Details of the suppl	ier of the s	afety d	lata sheet	
	Supplier: Bio		BioG	nost Ltd.	
	Address:		Medj	Medjugorska 59, Zagreb	
	Telephone number:		+385	+385 1 2409997	
	Telefax:		+385 1 2404039		
	e-mail of competer	nt person:	msds	msds@biognost.hr	
	National contact:		-		
1.4.	Emergency telephone numbers				
	National Protection and Rescue Direc		ıe Dire	ctorate:	112
	Medical information:				
	Medical information	า:			+385 1 2348 342

SECTIO	ON 2. Hazards identification					
2.1.	Classification of the substar	nce or mixture				
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)					
	Hazard class and ca	tegory code:	Hazard statement*:			
	Skin Irr. 2		H315			
	Eye Irr. 2		H319			
2.1.2.	Additional information					
	-					
*For the	e full text of H and EUH phrase	es see Section 16.				
2.2.	Label elements					
	Product identification:	TISSUE MARKING	G DYES, YELLOW			
	Identification number:	-				
	Authorisation number:	-				



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Trade name:					
Product code:	3408-2-X**	Date of compilation:	14 November 2022	Version:	5

	Hazard pictograms:	GHS07
	Signal word:	Warning
	Hazard statement:	H315 Causes skin irritation H319 Causes serious eye irritation.
	Precautionary statement:	P280 Wear protective gloves/protective clothing/eye/protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P337+P313 If eye irritation persists: Get medical advice/attention.
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
		ting properties. tains no components considered to be either persistent, bioaccumulative sistent 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)		
67-63-0/ 200-661-7/ 603-117-00-0	-	<4	propan-2-ol	Flam. Liq. 2; H225 Eye Irr. 2; H319 STOT SE 3; H336		
7664-41-7 231-635-3/ 007-001-00-5	-	<1	ammonia	Flam. Gas 2; H221 Skin Corr. 1B; H314 Acute Tox. 3; H331 Aquatic Acute 1; H400		

SECTIO	SECTION 4. First aid measures				
4.1.	Description of first aid mea	asures			
	General notes:	Move out of dangerous area. Show this safety data sheet to the doctor and first responders.			



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	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.
	Self-protection of the first aider	-
4.2.	Most important symptom	ns and effects, both acute and delayed
	Following inhalation:	No information available.
	Following skin contact:	No information available.
	Following eye contact:	No information available.
	Following ingestion:	No information available.
4.3.	Indication of any immedia	ate medical attention and special treatment needed
	Treat symptomatically.	

SECTION 5. Firefighting measures			
5.1.	Extinguishing media		
	Suitable extinguishing media:	Use dry chemical, CO <sub>2</sub> , 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 substance 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		
	Heating may cause container cracking due to increase in pressure. Remove sources of heat and ignition. Do not contaminate the environment with extinguishing media.		

SECTION 6. Accidental release measures		
6.1.	Personal precautions, protective equipment and emergency procedures	
6.1.1.	For non-emergency personnel	



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	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 equipment (see Section 8).	case of inadequate ventilation use adequate airways protective			
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	ontainment 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				
	-				

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. Refer to the manufacturer's recommendations.			
	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.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. The	oroughly w	ash hands after work and before eating.			
7.2.	Conditions for safe storage, including any incom	patibilities				
	Technical measures and storage conditions: well well well with the storage conditions well well well with the storage conditions well well as the storage conditions well well as the storage conditions were conditions as the storage conditions well as the storage conditions were conditions as the storage conditions were conditions as the storage conditions were conditions which we can be storage conditions as the storage conditions were conditions as the storage conditions as the storage conditions were conditions as the storage conditions are conditions as the storage conditions as the storage conditions as the storage conditions are conditions as the storage conditions as the storage conditions as the storage conditions are conditions as the storage conditions as the storage conditions are conditions as the storage conditions as the storage conditions are conditions as the storage conditions as the storage conditions as the storage conditions as the storage conditions are conditions as the storage conditions as the storage		ghtly closed and upright set containers in a lated storage rooms at temperatures rom 15 to 25 °C.			
	Packaging materials: Manufact		urer's original packaging.			
	Requirements for storage rooms and vessels:	Keep awa	y from food and drink. Keep the containers osed.			



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	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:	-

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION							
8.1. Control pa	rameter	·s					
Substance		CAS No		Occupational exposure limit values/short term values			Biological limit values
				ppm	mg/	m³	
Isopropanol		67-63	-0	400/500	999/1	.250	-
Ammonia		7664-4	1-7	20/50	14/3	36	-
Substance: -							
EC No: -		CAS No:	-				
DNEL							
				Industrial			
Route of exposure:	Acu	te effect	Ac	ute effect	Chronic effect		Chronic effect
Route of exposure.		local	S	ystemic	local		systemic
Oral	-		-		-		-
Inhalation	36 mg		47.6 mg/ m³ (ammonia)		14 mg/ (ammor		500 mg/m <sup>3</sup> (propan-2-ol) 47.6 mg/ m <sup>3</sup> (ammonia)
Dermal	-		6.8 mg/kg bw/day (ammonia)		-		888 mg/kg bw/day (propan-2-ol) 6.8 mg/kg bw/day (ammonia)
Critical physical para	Critical physical parameters: solubility, flammability, corrosivity:						
				Consumer			
Route of exposure:	Acu	te effect	Ac	ute effect	Chro	onic effect	Chronic effect
Noute of exposure.		local	S	ystemic	local		systemic



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Trade na	ame:	TISSUE MARKING DYES, YELLOW						
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Oral		-	6.8 mg/kg (ammonia)	-	-	26 mg/kg bw/day (propan-2-ol) 6.8 mg/kg bw/day (ammonia)		
Inhalation	า	-	-		_	89 mg/m³ (propan-2-ol)		
Dermal		-	6.8 mg/kg (ammonia)	-	-	319 mg/kg (propan-2-ol) 6.8 mg/kg bw/day (ammonia)		
PNEC								
Environm	ental prote	ection target		PNEC				
Fresh wat	ter			No info	rmation available			
Freshwate	er sedimen	its		No info	rmation available			
Marine w	ater			No info	rmation available			
Marine se	Marine sediments			No information available				
Food chain			No information available					
Microorg	anisms in s	sewage treatment		No information available				
Soil (agrid	cultural)			No info	rmation available			
Air				No information available				
	:							
8.2.	Exposur	e controls						
8.2.1.	Approp	riate engineering c	ontrols					
		ce/mixture related ent exposure during		Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Structur exposur	ral measures to pre re:	vent	No information available				
	Organis exposur	ational measures to e:	o prevent	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.			
8.2.2.	Persona	sonal protection equipment:						
8.2.2.1.	Eye and	u tace protection.		Safety glasses tested and approved under appropriate standards such as EN 166(EU).				
8.2.2.2.	Skin pro	otection:						
	Hand pr	rotection:		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 f it.				



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	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 Section 6		
	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:	yellow	No information available
Odour/odour threshold:	faint ammonia	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:	> 93.3 °C	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
pH:	8.5 -10.0	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	1.02 - 1.14 (20°C)	No information available



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	Relative vapour density:	No information available	No information available		
	Particle characteristics:	No information available	No information available		
9.2.	Other information				
	-				

SECTIO	N 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).

SECTIO	N 11. Toxi	icological information	ı					
11.1.	Informat	ion on toxicological eff	ects					
	Acute to	xicity:						
Route o		Method	Species	Effect Dos LD <sub>50</sub> /LC ATE <sub>mi</sub>	se C <sub>50</sub> or	Exposur time	e	Results
Oral:		No information available	rat	LD <sub>5</sub>	LD <sub>50</sub>		on e	5.840 mg/kg (2-propanoll)
Dermal:		No information available	rabbit	LD <sub>5</sub>	50	No informati available		12.800 mg/kg (2-propanol)
Inhalation:		No information available	rat	LC <sub>5</sub>	LC <sub>50</sub> (isopro			37.5 mg/l (2-propanol) 9.850 mg/m³ air (ammonia)
	Specific	target organ toxicity - s	single exposure (S	STOT-SE):				
•		Spec	ific effects		Targe	et organ	Note	
Oral:		No information availa	able		-		-	



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Trade name:				ΓISSUE MARKII	NG DVES VELI		age 9 of 17
Product code:	3408	-2-X**		of compilation:	14 November		Version: 5
Froduct code.	3400	-Z-X	Date	or compliation.	14 Novembe	1 2022	version. 3
Dermal:	No inf	ormatio	n available		-	-	
Inhalation:	No inf	ormatio	n available		-	-	
Aspira	ation hazar	d:		-			
Irritat	ion and cor						
Exposure tim				Species	Evaluation	Method	Note
Skin corrosion/irritation: No avail			information able	rabbit	-	-	mild skin irritation
Serious irritation to eyes: No avai			information able	rabbit	24 h	-	eye irritation
Sensi	tization						
Skin sensitizatio	on: M	ay cause	e an allergic sk	in reaction.			
Respiratory sensitization:	All	lergic pe	ersons may dis	play irritation.			
	toms relate	•	•	al, and toxicologic			
Oral exposure:				mptoms. May cau		swallowed.	
Dermal exposur				mptoms. May cau			
Inhalation expo	sure:			mptoms. Aerosol			system irritation.
Eye exposure:		No kno	own specific sy	mptoms. May cau	use mild eye irrit	ation.	
-		• • • •					
Repea	ated dose t	oxicity (		chronic, chronic)			
	Dos	e	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No inforr available	mation	No information available	No information available	No information available	No information available	No information available
Subacute dermal	No inforr available	mation	No information available	No information available	No information available	No information available	No information available
Subacute inhalation	No inforr available	mation	No information available	No information available	No information available	No information available	No information available
Subchronic oral	No inforr available	mation	No information available	No information available	No information available	No information available	No information available



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- <b> </b>	<u> </u>	C: f: f				NI-4-
Spec	cific target organ to	kicity - repeated	l exposure (STO	T-RE):		
Chronic inhalation	No information available	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	No information available
Chronic oral	No information available	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	No information available
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	No information available

Specific target or	rgan toxicity - repeated exposure	(STOT-RE):	
	Specific effects	Target organ	Note
Subacute oral	No information available	No information available	No information available
Subacute dermal	No information available	No information available	No information available
Subacute inhalation	No information available	No information available	No information available
Subchronic oral	No information available	No information available	No information available
Subchronic dermal	No information available	No information available	No information available
Subchronic inhalation	No information available	No information available	No information available
Chronic oral	No information available	No information available	No information available
Chronic dermal	No information available	No information available	No information available
Chronic inhalation	No information available	No information available	No information available

CMR effects (carcinogenicity, mutagenicity, reproductive toxicity)



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	Carcinogenicity:	Product not classified as a carcinogen by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), or the Occupational Safety and Health Administration (OSHA).
	Mutagenicity in-vitro:	No information available
	Genotoxicity:	No information available
	Mutagenicity in-vivo:	No information available
	Germ cell mutagenicity:	No information available
	Reproductive toxicity:	No information available
	Summary of evaluation of the CMR properties:	No information available
11.2.	Information on other hazards:	
11.2.1.	Endocrine disrupting properties:	
	No known endocrine disrupting properties that affect human health.	
11.2.2.	Other informations:	
	-	

SECTION 12. Ecologic	al informa	ition				
12.1. Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	Pimephales promelas (fathead minnow)	-	-	9.640 mg/l (2-propanol)
Crustacea:	EC <sub>50</sub>	48 hours	Daphnia magna (water flea)	-	-	13.299 mg/l (2-propanol) 25.4 mg/l (ammonia)
Algae/aquatic plants:	IC <sub>50</sub>	72 hours	Desmodesmus subspicatus (green algae)	-	-	>1.000 mg/l (2-propanol)
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Doza	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	-	_	-	-
Crustacea:	EC <sub>50</sub>	48 hours	-	-	-	-



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Trade name	<b>:</b> :			T	DYES, YELLO	<b>DW</b>				
Product cod	de:	3408-2-X*	k	Date of	f compilatior	ո: 14	November	2022	Vers	sion: 5
Algae/aquati	c plant	s: IC <sub>50</sub>	72 ho	urs -					-	
Other organi	······	-	_	_		_			_	
12.2. Per	sistenc	e and degrad	dability							
Abi	iotic de	gradation								
	De	egradation ha	alf-lives		Method Evaluatio				n	Note
Marine water	No in	formation av	ailable	No ii	No information available			rmation av	vailable	-
Fresh water	No in	formation av	ailable	No ii	nformation av	ailable	No info	rmation av	vailable	-
Air	No information available			No ii	nformation av	ailable	No info	rmation av	vailable	-
Soil	No in	formation av	ailable	No ii	nformation av	ailable	No info	rmation av	vailable	-
Bic	degrad	dation								
% Degradat	ion	Time (d	ays)		Method		Evaluation		Not	e
No informati available			No ii avail	nformation able		No information available				
	·			·						
12.3. Bio	accumi	ulative poten	tial							
Oct	tanol-w	ater partition	n coeffici	ent (log	Kow)					
Value	Con	centration	рН	°C	Method	t	Evaluati	on	No	ote
No information available	No in availa	formation able	_	-			No information available			
Bic	concer	ntration Facto	or (BCF)							
Value		Speci	es		Method		Evaluation		Note	е
No informati available	No information No information			No information available		No information available				
Ch	ronic e	cotoxicity								
Valu		Dose		osure ime	Species		Method	Evaluati	on	Note
		1								



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	name:			Т	ISSUE N	MARKIN	NG DYE	S, YELLO	WC		
Produ	ct code:	340	)8-2-X**	Date o	f compi	lation:	14 No	vember	2022	Version:	5
Chronic toxicity on fish Chronic toxicity on crustacea (Daphnia)		'n	LC <sub>50</sub>	available avai No No information info		ilable avantument avan		ation	No information available No information		
	.			available	availak	ole	availab	le	available		
12.4.	Mobility	y in soil									
	Known	or pred	licted distr	ibution in envir	onment	al compa	artments	•			
	Surface	tensio	n:								
	Value	9	°C	Concen	tration		Metho	od		Note	
	No informa n availa	itio ir	lo nformation vailable	No inforr available	mation	No inf availal	formation ble -		-		
	Ausorp		desorption								
Soil-wa	ort No	A/D cc	pefficient constant nation	log Kov No informa available No informa available	tion Nation N	vaporati Io inform vailable Io inform vailable	nation	No info	ormation	Note	
Transpo Soil-wa Water- Soil-air	ort No ava	A/D co Henry's informailable inform	pefficient constant nation	No informa available No informa	ation Nation Nation Nation N	lo inform vailable lo inform	nation	No info availab No info availab	ormation le ormation le ormation		
Soil-wa	ort  ater  air  No ava ava ava	A/D co Henry's informailable informailable informailable	nation	No informa available No informa available No informa	ation Nation Nation Nation N	lo inform vailable lo inform vailable lo inform	nation	No info availab No info availab No info	ormation le ormation le ormation		
Soil-wa Water- Soil-air	ort  ater  air  No ava  No ava  Results  This sub	A/D co Henry's informallable informallable informallable of PBT	pefficient constant nation nation and vPvB and vPvB are when the constant of t	No informa available No informa available No informa available	ation N artion N artion N artion N artion N artion N artion N articles	lo inform vailable lo inform vailable lo inform vailable	nation nation nation	No info availab No info availab No info availab	ormation le ormation le ormation le	- - ioaccumulativ	e
Soil-wa Water- Soil-air 12.5.	ort  ater  air  No ava  No ava  Results  This sub and tox	A/D co Henry's informaliable informaliable informaliable of PBT ostance ic (PBT)	pefficient constant nation nation and vPvB and vPvB are when the constant of t	No informa available No informa available No informa available assessment ontains no comersistent and ve	ation N artion N artion N artion N artion N artion N artion N articles	lo inform vailable lo inform vailable lo inform vailable	nation nation nation	No info availab No info availab No info availab	ormation le ormation le ormation le	- - ioaccumulativ	e
Soil-wa Water- Soil-air	Results This suband tox  Endocri The subapropert	A/D co Henry's informailable informailable informailable of PBT ostance ic (PBT)	pefficient constant nation nation and vPvB and v	No informa available No informa available No informa available assessment ontains no comersistent and ve	ntion Nation Nat	lo inform vailable lo inform vailable lo inform vailable s conside ccumulations co	nation nation nation ered to b tive (vPvl	No info availab No info availab No info availab e either B) at leve	persistent, biels of 0.1% or	ioaccumulativ	
Soil-wa Water- Soil-air 12.5.	Results This suband tox  Endocri The subapropert	A/D collection A/D co	pefficient constant nation nation and vPvB and vPvB are mixture of the constant properties of the cons	No informa available No informa available No informa available assessment ontains no comersistent and volumers and volumers are seen to contains available	ntion Nation Nat	lo inform vailable lo inform vailable lo inform vailable s conside ccumulations co	nation nation nation ered to b tive (vPvl	No info availab No info availab No info availab e either B) at leve	persistent, biels of 0.1% or	ioaccumulativ	



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SECTION	N 13. Disposal considerat	ions			
13.1.	Waste treatment method	S			
13.1.1.	. Product/Packaging disposal:				
	Submit for disposal to t Protection.	he legal person authorized by the Ministry of Environmental and Nature			
13.1.2.	Waste codes/waste des	ignations according to Law:			
		according to official regulations.			
	:				
13.1.3.	Waste treatment – relev	vant information:			
	No information availabl	e			
13.1.4.	Sewage disposal – relev	rant information:			
	Waste must not be disp	osed of into the sewage system.			
13.1.5.	Other disposal recommendations:				
	product's remains into the sewage system. Submit the remains to the collectors try in charge. Do not dispose of the packaging into the sewage system. the collectors authorized by the ministry in charge.				
13.1.6.	Relevant Community pr	Relevant Community provisions:			
	-				
SECTION	N 14. Transport informati	on			
	Transporting/shipment b	y road (ADR)			
UN num	ber:	Not regulated			
UN prop	er shipping name:	-			
Transpo	rt hazard class(es):	-			
Packing	group:	-			
Environmental hazards:		-			
Special p	precautions for user:	-			
	Transporting/shipment b	y rail (RID)			
UN number:		Not regulated			
UN prop	er shipping name:	-			
Transpo	rt hazard class(es):	-			
Packing	group:	-			



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Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by inla	nd waterways (ADN)
UN number:	Not regulated
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by sea	(IMDG)
UN number:	Not regulated
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 regulated
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Further information: -	

SECTIO	ON 15. Regulatory info	rmation		
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture			
	EU regulations			
	Authorisation and/or restrictions on use			
	Authorisations:	-		
	Restrictions:	-		



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Trade name:		TISSUE MARKING DYES, YELLOW		<u> </u>	
Product code:	3408-2-X**	Date of compilation:	14 November 2022	Version:	5

	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 XVIII);
	Information according 1 guideline)	1999/13/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 assessn	nent
	-	

SECTIO	SECTION 16. Other information				
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.			



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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.	Rele	vant H statements (nu	mber and full text)			
		221	Flammable gas.			
		225	Highly flammable liquid and vapour.			
		314	Causes severe skin burns and eye damage.			
	11.	315	Causes skin irritation.			
	H:	319	Causes serious eye irritation.			
		331	Toxic if inhaled.			
		336	May cause drowsiness or dizziness.			
		400	Very toxic to aquatic life.			
16.6.	Trair	ning advice:	-			
			"X" in the product code marks different volumes (different packaging of the product)			
16.7.	Furt	her 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: Expo	sure scenario	resulting to	Chemical:	safety as	sessment

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