

TISSUE MARKING DYES, 7 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
Tissue marking dye, orange
Tissue marking dye, lilac



Page 1 of 17

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: Reason why uses advised against:			Only the ide	entified uses are advised.
			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	r of the s	afety da	ata sheet	
	Supplier:		BioGr	nost Ltd.	
	Address:		Medju	djugorska 59, Zagreb	
	Telephone number:		+385	85 1 2409997	
	Telefax:	Telefax: +38!		85 1 2404039	
	e-mail of competent p	person:	msds(<u>@biognost.h</u>	<u>r</u>
	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:	Identification number: -				
	Authorisation number:	-				



Page 2 of 17

Trade name:		TISSUE MARKING DYES, BLACK					
Product code:	3408-3-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 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.			



Page 3 of 17

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

	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 ₂ , water spray (FOG) or foam.			
	Unsuitable extinguishing media:	Avoid solid water stream as it may scatter and spread fire.			
5.2.	Special hazards arising from the su	bstance or mixture			
	Hazardous by products of fire:	Use water spray to cool fire exposed container surfaces and to protect personnel. Thermal decomposition can produce carbon monoxide (highly toxic) and carbon dioxide (an asphyxiant at sufficient concentrations).			
5.3.	Advice for firefighters				
	Use a self-contained open-circuit 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				



Page 4 of 17

Trade name:		TISSUE MARKING DYES, BLACK					
Product code:	3408-3-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 (see Section 8).	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).				
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:	nation: 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.		



Page 5 of 17

Trade name:	TISSUE MARKING DYES, BLACK				
Product code:	3408-3-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. 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	te effect Acu		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 ³ (propan-2-ol) 47.6 mg/ m ³ (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



Page 6 of 17

Page 6 of 17							
Trade name	:		TIS	SUE MARI	KING DYES, BLACK		
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 information 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 vent 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	erson	al protection equip	oment:				
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		



Page 7 of 17

Trade name:	TISSUE MARKING DYES, BLACK				
Product code:	3408-3-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 Se	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



Page 8 of 17

Trade name:		TISSUE MARKI	NG DYES, BLACK		
Product code:	3408-3-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).			

SECTION	N 11. Toxi	cological information	1					
11.1.	Informat	ion on toxicological eff	ects					
	Acute to	xicity:						
Route of exposure		Method	Species	Effect Dos LD ₅₀ /LC ATE _{mi}	se C ₅₀ or	Exposur time	e	Results
Oral:		No information available	rat	LDs	LD ₅₀		nation 5.840 mg/k lable (2-propand	
Dermal:		No information available	rabbit	LD	LD ₅₀		on e	12.800 mg/kg (2-propanol)
Inhalation:		No information available	rat	LCs	LC ₅₀		nol) a)	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		-		-	_



Page 9 of 17

						<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.		known specific symptoms. May cause discomfort if swallowed. known specific symptoms. May cause discomfort.						
Inhalation expos					ols/vapor may cau	ise 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	No inforr available	nation	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		



Page 10 of 17

Trade name:	TISSUE MARKING DYES, BLACK					
Product code:	3408-3-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 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)



Page 11 of 17

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Product code:	3408-3-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	al informa	ition				
12.1. Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	Pimephales promelas (fathead minnow)	-	-	9.640 mg/l (2-propanol)
Crustacea:	EC ₅₀	48 hours	Daphnia magna (water flea)	-	-	13.299 mg/l (2-propanol) 25.4 mg/l (ammonia)
Algae/aquatic plants:	IC ₅₀	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 ₅₀	96 hours	-	_	-	-
Crustacea:	EC ₅₀	48 hours	-	-	-	_



Page 12 of 17

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 ₅₀	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		Evaluation		tion		Note
Marine water	No i	information available		No ii	No information available		No info	No information available		ole -	-
Fresh water	No information available		No ii	nformation av	ailable	No info	rmation	availab	ole -	•	
Air	No information available		No ii	nformation av	ailable	No info	rmation	availab	ole -	-	
Soil	oil No information available		No ii	nformation av	ailable	No info	rmation	availak	ole -	-	
	•										
Bic	degra	dation									
% Degradat	ion				Method		Evaluation			Note	
No informati available	No information No information		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



Page 13 of 17

Trade n	name:			Т	ISSUE	MARKING I	DYES, I	BLACI	(
Produc	t code	: 3408	3-3-X**	Date of o	compila	ation: 14 N	Novem	ber 20)22	Vers	ion:	5
Chronic	ronic toxicity on fish LC ₅₀ i ronic toxicity on ustacea (Daphnia)		No No information available available		nation info ble ava	available avail		informatio available	n -			
			No information available	No inform availal	1	ormatic ailable	n	No informatio available	n -			
12.4.	Mobi	lity in soi	l									
	Know	n or pre	dicted dist	ribution in envir	onment	al compartm	ents:					
	Surfa	ce tensio	n:									
	Va	lue	°C	Concent	tration	М	ethod			Not	:e	
	No inforr n ava	matio i	No nformatio ivailable		o information No information		-					
Transpo		A/D co	desorption pefficient	log Kow	, E	Evaporation ra	ate	Me	thod		Note	
	rt .er	A/D co Henry's No inforr	pefficient constant	log Kow	tion N	No informatio	n N	o info	mation	_	Note	
Transpo Soil-wat Water-a	er a	A/D co Henry's No inforr available No inforr	pefficient s constant mation	No informa available No informa	tion N a tion N	No informatio Ivailable No informatio	on N av on N	o info vailable o info	rmation e rmation	-	Note	
Soil-wat	er i	A/D co Henry's No inforr available	pefficient s constant mation mation	log Kow No informa available	tion N a tion N tion N	No informatio Ivailable	on N av on N av	o inforvailable o inforvailable	rmation e rmation e rmation	-	Note	
Soil-wat Water-a Soil-air	er i	A/D co Henry's No inforr available No inforr available No inforr available	pefficient s constant mation mation	No informa available No informa available No informa available	tion N a tion N tion N	No informatio Ivailable No informatio Ivailable No informatio	on N av on N av	o inforvailable o inforvailable o infor	rmation e rmation e rmation	-	Note	
Soil-wat Water-a	rer I i i i i i i i i i i i i i i i i i i	A/D control A/D co	pefficient s constant mation mation mation	log Kow No informa available No informa available No informa available	tion N a tion N a	No informatio available No informatio available No informatio available	on N av on N av on N av	o inforvailable o inforvailable o inforvailable vailable	rmation e rmation e rmation e	-		
Soil-wat Water-a Soil-air	rer I a a a a a a a a a a a a a a a a a a	A/D control Henry's No informavailable No informavailable ts of PBT substance	pefficient s constant mation mation and vPvB	No informa available No informa available No informa available	tion N a tion N a	No information vailable No information vailable No information vailable Ivailable Ivailable Ivailable	on N av on N av on N av on N av	o inforvailable o inforvailable o inforvailable vailable	rmation e rmation e rmation e e e ersistent, b	- Dioaccu	mulati	vve
Soil-wat Water-a Soil-air 12.5.	Resul This s	A/D control A/D co	coefficient s constant nation nation and vPvB e/mixture of	log Kow No informa available No informa available No informa available assessment contains no compersistent and ve	tion N a tion N a	No information vailable No information vailable No information vailable Ivailable Ivailable Ivailable	on N av on N av on N av on N av	o inforvailable o inforvailable o inforvailable vailable	rmation e rmation e rmation e e e ersistent, b	- Dioaccu	mulati	ve
Soil-wat Water-a Soil-air 12.5.	Resul This s and t	A/D control Henry's No information informa	coefficient so constant mation mation mation mation comparing properties of the constant of th	log Kow No informa available No informa available No informa available assessment contains no compersistent and ve	tion Nation Nation Nation a	No information vailable No information vailable No information vailable s considered ccumulative (on N av on N av on N av on N av	o inforvailable o inforvailable vailable ither p	rmation e rmation e rmation e rmation e e ersistent, b s of 0.1% o	- pioaccu r highe	mulati er.	ve
Soil-wat Water-a Soil-air	Resul This s and t	A/D control Henry's No information informa	constant social constant socia	log Kow No informa available No informa available No informa available assessment contains no com persistent and ve	tion N a a tion N a a a a a a a a a a a a a a a a a a	No information vailable No information vailable No information vailable s considered ccumulative (on N avon	o inforvailable o inforvailable vailable ither pt level	rmation e rmation e rmation e rmation e ersistent, k s of 0.1% of	- pioaccu or highe	mulati er.	
Soil-wat Water-a Soil-air 12.5.	Resul This s and t	A/D control Henry's No information informa	constant nation	log Kow No informa available No informa available No informa available assessment contains no com persistent and ver operties does not contain REACH Article 5	tion N a a tion N a a a a a a a a a a a a a a a a a a	No information vailable No information vailable No information vailable s considered ccumulative (on N avon	o inforvailable o inforvailable vailable ither pt level	rmation e rmation e rmation e rmation e ersistent, k s of 0.1% of	- pioaccu or highe	mulati er.	



Page 14 of 17

Trade name:		TISSUE MARK	ING DYES, BLACK		
Product code:	3408-3-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 disposed 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).					



Page 15 of 17

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

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	ION 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:	-				



Page 16 of 17

Trade name:		TISSUE MARKING DYES, BLACK				
Product code:	3408-3-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)	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.



Page 17 of 17

Trade name:	TISSUE MARKING DYES, BLACK				
Product 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	cation Classification procedure		Classification procedure			
_			-			
16.5.	Rele	vant H statements (nu	mber and full text)			
		221	Flammable gas.			
		225	Highly flammable liquid and vapour.			
	314 315		Causes severe skin burns and eye damage.			
			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)			
		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.			

ANNEX:	Exposure	scenario	resulting	to Chemical	safety	assessment

-



Page 1 of 17

Trade name:	TISSUE MARKING DYES, BLUE				
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-X**			X**			
1.2.	Relevant identified us	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 of the safety data sheet					
	Supplier:		BioGnost Ltd.			
	Address:	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997			
	Telefax:	Telefax: +3		+385 1 2404039		
	e-mail of competent p	e-mail of competent person: ms		nsds@biognost.hr		
	National contact:		-			
1.4.	Emergency telephone numbers					
	National Protection and Rescue Direction		e Direc	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 1	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 phras	es see Section 16.		
2.2.	Label elements			
	Product identification: TISSUE MARKING DYES, BLUE			
	Identification number: -			
	Authorisation number:	-		



Page 2 of 17

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.			



Page 3 of 17

Trade name:	TISSUE MARKING DYES, BLUE					
Product code:	3408-5-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	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 ₂ , water spray (FOG) or foam.			
	Unsuitable extinguishing media:	Avoid solid water stream as it may scatter and spread fire.			
5.2.	Special hazards arising from the su	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			



Page 4 of 17

Trade name:	TISSUE MARKING DYES, BLUE						
Product code:	3408-5-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 (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 i well ventilated storage rooms at temperatures ranging from 15 to 25 °C.				
	Packaging materials: Manufacturer's original packaging.				
	Requirements for storage rooms and vessels:	y from food and drink. Keep the containers osed.			



Page 5 of 17

Trade name:	TISSUE MARKING DYES, BLUE					
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 ³	
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 loc		systemic
Oral	-	-	-			-
Inhalation	36 mg/ m ³ (ammonia)	47.6 m	•	14 mg/ m³ (ammonia)		500 mg/m ³ (propan-2-ol) 47.6 mg/ m ³ (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 effect Acute ef		cute effect systemic	Chronic effect		Chronic effect systemic	



Page 6 of 17

Trade na	ame:		TIS	SUE MAF	RKING D	YES, BLUE	rage 0 01 17	
Product	code:	3408-5-X**	Date of co	ompilation: 14 November 2022 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 info	rmation a	vailable		
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:	tection:					
	Hand pr	otection:		protective	gloves ha	ave to satisfy t	oves. The selected he specifications of EU ndard EN 374 derived from	



Page 7 of 17

Trade name:	TISSUE MARKING DYES, BLUE							
Product code:	3408-5-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 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



Page 8 of 17

Trade name:	TISSUE MARKING DYES, BLUE						
Product code:	3408-5-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	V 11. Toxi	cological information	1								
11.1.	Informati	formation on toxicological effects									
	Acute to	cicity:									
Route of exposure		Method	Species	Effect Dos LD ₅₀ /LC ATE _{mix}	e Exposu C ₅₀ or time	re Results					
Oral:		No information available	rat	LD₅	No informat availab	(2-propanoll)	l				
Dermal:		No information available	rabbit	LD₅	No informat availab	(2-propanol)					
Inhalatic	on:	No information available	rat	LC ₅	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		-	-					



Page 9 of 17

	,					P	age 9 of 17			
Trade name:				TISSUE MARK	ING DYES, BL	UE				
Product code:	3408	3408-5-X** Date of		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	-	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	own specific symptoms. Aerosols/vapor may cause respiratory system irritation.							
Eye exposure:		No kno	nown 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 inforr dermal available			No information available	No information available	No information available	No information available	No information	on		
dermal available Subacute No inforr 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		



Page 10 of 17

Trade name:	TISSUE MARKING DYES, BLUE						
Product code:	3408-5-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 -	. 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)



Page 11 of 17

Trade name:		TISSUE MARK	ING DYES, BLUE		
Product code:	3408-5-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	al informa	ation				
12.1. Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	Pimephales promelas (fathead minnow)	-	-	9.640 mg/l (2-propanol)
Crustacea:	EC ₅₀	48 hours	Daphnia magna (water flea)	-	-	13.299 mg/l (2-propanol) 25.4 mg/l (ammonia)
Algae/aquatic plants:	IC ₅₀	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 ₅₀	96 hours	-	_	-	-
Crustacea:	EC ₅₀	48 hours	-	-	-	-



Page 12 of 17

Trade name	:		TISSUE MARKING DYES, BLUE								
Product cod	le:	3408-5-X*	r *	Date of	compilation	: 14	November	2022		Version	n: 5
Algae/aquation	······	nts: IC ₅₀	72 ho	ours -		-	-		-		
Other organis	sms	_	_	-			_				
		nce and degra	dability								
Abi		degradation					-			,	
		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		avail	avie	availa	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	=		- · -				
		:		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	ame:				TISSUE	MARK	ING DY	ES, BLU	E		
Product code:		340)8-5-X**	Date of	compil	lation:	14 No	vember	2022	Version:	5
Chronic toxicity on fis		n fish	LC ₅₀	information in		formation information		No No information in available av		-	
	toxicity o a (Daphni		EC ₅₀	No information available	No inform availab		No inform availab	1	No information available	-	
12.4.	Mobility	in soil									
	Known	or pred	licted distr	ibution in enviro	onmenta	al comp	artments	:			
	Surface										
	Value		°C	Concent			Metho			Note	
No informatio n available		tio ir	lo nformation vailable	No information available		No information available		-			
Transpo	rt l	A/D co lenry's	lesorption pefficient constant	log Kow		vaporati			ethod	Note	
Soil-wat	er	inform ilable	nation	No informat		o inforn vailable	nation	No info	ormation le	-	
Water-a	ır	inform ilable	nation	No informat available		o inforn vailable	nation	No info	ormation le	_	
Soil-air		inform ilable	nation	No informat available		o inforn vailable	nation	No info	ormation le	-	
12.5.	Results	of PRT	and vPvR	assessment							
	This sub	stance	/mixture c	ontains no com ersistent and ve					•		'e
	and toxi	- (1 51)	,, σ. νειγ ρ	c. sistem dia ve	, 5.000	Jamaia	(*1 *)	_, at icve	.5 5. 5.176 01	9	
	Fo do aria	ne disri	upting pro	•							
12.6.				oes not contain	compoi	nents co	nsidered	to have	endocrine di	srupting	
12.6.	The sub	es acco	ording to F	REACH Article 57 (EU) 2018/605 a	7(f) or C	ommissi	on Dele	-	gulation (EU)	2017/2100 o	r
12.6.	The sub	es acco sion Ro	ording to F egulation (REACH Article 57	7(f) or C	ommissi	on Dele	-	gulation (EU)	2017/2100 o	r



Page 14 of 17

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

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 p	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

Page 15 of 17

Product code:	3408-5-X**	Date of compilation:	14 November 2022	Version: 5	;			
Environmental haz		-						
Special precaution		-						
Transpo	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:	-						
Transpo	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:	-						
Transpo	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 informatio	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:	-						



Page 16 of 17

Trade name:	TISSUE MARKING DYES, BLUE				
Product code:	3408-5-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 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.			



Page 17 of 17

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.			

ANNEX: Exposure scenario	resulting to Chemical	safety assessment

-



Page 1 of 17

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 Direction		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: -					



Page 2 of 17

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.		



Page 3 of 17

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

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 ₂ , water spray (FOG) or foam.			
	Unsuitable extinguishing media:	Avoid solid water stream as it may scatter and spread fire.			
5.2.	Special hazards arising from the su	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		



Page 4 of 17

Trade name:	TISSUE MARKING DYES, GREEN					
Product code:	3408-1-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 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	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.		



Page 5 of 17

Trade name:	TISSUE MARKING DYES, GREEN				
Product code:	3408-1-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	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	ute effect	Chronic effect		Chronic effect
Route of exposure.		local s		ystemic		local	systemic
Oral	-		-		-		-
Inhalation	36 mg		47.6 mg	•	14 mg/ m³ (ammonia)		500 mg/m ³ (propan-2-ol) 47.6 mg/ m ³ (ammonia)
Dermal	-	6.8 mg/k (ammoni		/kg bw/day nia)	-		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	Chronic effect local		Chronic effect systemic



Page 6 of 17

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 info	rmation 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	ational measures to e:	prevent	Organization of work in order to reduce other worker's 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:			sses tested and ap such as EN 166(El	pproved under appropriate U).		
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		



Page 7 of 17

Trade name:		TISSUE MARKING DYES, GREEN						
Product code:	3408-1-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 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



Page 8 of 17

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 ₅₀ /LC ATE _{mix}	se C ₅₀ or	Exposur time	e	Results		
Oral:		No information available	rat	LD ₅	50	No information available		5.840 mg/kg (2-propanoll)		
Dermal:		No information available	rabbit	LD ₅	50	No information available		12.800 mg/kg (2-propanol)		
Inhalation:		No information available	rat	LC ₅	0	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):			•			
		Spec	,	Tarq	et organ		Note			
Oral:		No information availa			-		_			



Page 9 of 17

Trade name:				TISSUE MARKI	NG DYES, GRI		age 9 of 17		
		-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.		b known specific symptoms. Aerosols/vapor may cause respiratory system irritation. b 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 No information available			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	



Page 10 of 17

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	gan 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)



Page 11 of 17

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 ₅₀	96 hours	Pimephales promelas (fathead minnow)	-	-	9.640 mg/l (2-propanol)						
Crustacea:	EC ₅₀	48 hours	Daphnia magna (water flea)	-	-	13.299 mg/l (2-propanol) 25.4 mg/l (ammonia)						
Algae/aquatic plants:	IC ₅₀	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 ₅₀	96 hours	-	-	-	-						
Crustacea:	EC ₅₀	48 hours	-	-	-	-						



Page 12 of 17

Trade name	: :				TISSUE MARKING DYES, GREEN						
Product cod	de:	3408-1-X	* *	Date o	f compilation	: 14	November	2022	Versio	n: 5	
Algae/aquati	ic plant	s: IC ₅₀	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							



Page 13 of 17

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 toxicity on fish LC		LC ₅₀	No information available	No inform availab		No informa availab		No informatio available	n -	
Chronic crustace		-	EC ₅₀	No information available	No inform availab		No informa availab		No informatio available	n -
12.4.	Mob	oility in so	il							
				ibution in envir	onmenta	al compa	rtments	•		
	Curf	ace tensic								
		alue	°C	Concent	tration		Metho	od		Note
		rmatio i	No information available	No inforn available	nation	No infavailat	formation		-	
Soil-wa	ter	Henry' No informavailable No information		available	No information No available available		nation	No info	rmation e rmation	Note -
Water-a		available No infor	mation		available available No information No inform		available No inform		rmation	-
12.5.	This	substanc	Γ and vPvB e/mixture c	available assessment ontains no comersistent and ve	nponents				oersistent, l	pioaccumulative
12.6.			rupting pro							or mignen.
12.0.	The prop	substance perties acc	e/mixture d	oes not contain	7(f) or C	ommissi	on Deleg	gated reg		disrupting I) 2017/2100 or
	Oth	er adverse	e effects							
12.7.	Othe	ci daveise	circus							



Page 14 of 17

	Trade name:		TISSUE MARKING DYES, GREEN							
ľ	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	Other disposal recommendations:				
	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				
0_0	Transporting/shipment					
UN num	<u> </u>	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

Page 15 of 17

Product code:	3408-1-X**	Date of compliation:	14 November 2022	version: 5			
:							
Environmental hazar	ds:	-					
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	CTION 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:	-								



Page 16 of 17

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	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.		



Page 17 of 17

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.			
	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:	-			
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 assessmen	ıt

-



Page 1 of 17

Trade name:					
Product code:	3408-7-X**	Date of compilation:	14 November 2022	Version:	5

SECTIO	ON 1: Identification of th	e subst	ance/ı	mixture and	of the company/undertaking	
1.1.	Product identifier					
	Trading name:	TISSUE MARKING DYES, LILAC				
	Chemical name: -	_				
	Product code:	3408-7-2	X**			
1.2.	Relevant identified use	s 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 supplier	Details of the supplier of the safety data sheet				
	Supplier: BioG		BioG	Gnost Ltd.		
	Address:		Medj	djugorska 59, Zagreb		
	Telephone number:		+385	5 1 2409997		
	Telefax: +38		+385	85 1 2404039		
	e-mail of competent po	erson:	<u>msds</u>	sds@biognost.hr		
	National contact: -		-			
1.4.	Emergency telephone	number	S			
	National Protection and	d Rescu	e Direc	ctorate:	112	
	Medical information:				+385 1 2348 342	
	Other information:				-	

SECTIO	TION 2. Hazards identification					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification according to R	egulation (EC) No	1272/2008 (CLP)			
	Hazard class and cate	egory 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	s see Section 16.				
2.2.	Label elements					
	Product identification:	TISSUE MARKIN	IG DYES, LILAC			
	Identification number:	-				
	Authorisation number:	-				



Page 2 of 17

Trade name:					
Product code:	3408-7-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	measures			
	General notes:	Move out of dangerous area. Show this safety data sheet to the doctor and first responders.			



Page 3 of 17

Trade name:		TISSUE MARKING DYES, LILAC							
Product code:	3408-7-X**	Date of compilation:	14 November 2022	Version:	5				

4.3.	Indication of any immediation of any immediation of any immediation.	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 ₂ , water spray (FOG) or foam.				
	Unsuitable extinguishing media:	Avoid solid water stream as it may scatter and spread fire.				
5.2.	Special hazards arising from the 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 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		



Page 4 of 17

Trade name:		TISSUE MARKING DYES, LILAC						
Product code:	3408-7-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	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	n:	Secure proper ventilation.			
	Measures to protect the environment:	Measures to protect the environment:				
	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 venti	ghtly closed and upright set containers in a lated storage rooms at temperatures rom 15 to 25 °C.			
	Packaging materials: Manufacturer's original packaging.					
	Requirements for storage rooms and vessels:	Keep awa	y from food and drink. Keep the containers osed.			



Page 5 of 17

Trade name:	TISSUE MARKING DYES, LILAC						
Product code:	3408-7-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

2221211012110								
8.1. Control p	aramete	rs						
Substance		CAS No		Occupational exposure limit values/short term values			Biological limit values	
				ppm	mg/	m ³	-	
Isopropanol 67		67-63	3-0	400/500	999/1	.250	-	
Ammonia		7664-4	11-7	20/50	14/3	36	-	
Substance: -		_						
EC No: -	- CAS No: -							
DNEL								
				Industrial	_			
Route of exposure:		te effect	Acute effect		Chronic effect		Chronic effect	
Route of exposure:		local	systemic		local		systemic	
Oral	-		-		_		-	
Inhalation I		47.6 m (ammo	-			500 mg/m ³ (propan-2-ol) 47.6 mg/ m ³ (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 par	ameters:	solubility, fl	ammabi	lity, corrosivity:	•	-		
				Consumer				
Doute of overes	Acu	te effect	Ac	cute effect	Chro	onic effect	Chronic effect	
Route of exposure:		local sy		systemic	local		systemic	



Page 6 of 17

Trade na	ame:		TI	SSUE	MAF	RKING DYES,	LILAC	<u> </u>	
Product	code:	3408-7-X**	Date of c	compil	lation	ı: 14 Nover	nber 2022	Version:	5
			· · · · · · · · · · · · · · · · · · ·	<u>'</u>		1			
Oral		-	6.8 mg/kg (ammonia		w/day -		(proj 6.8 n	26 mg/kg bw/day (propan-2-ol) 6.8 mg/kg bw/day (ammonia)	
Inhalatio	n	-	-			89 m	ng/m³ (propan-7	2-ol)	
Dermal		-	6.8 mg/kg (ammonia		ay	-	(proj 6.8 n	319 mg/kg (propan-2-ol) 6.8 mg/kg bw/day (ammonia)	
PNEC									
Environm	nental prot	ection target		PI	NEC				
Fresh water			No	o info	rmation availal	ole			
Freshwater sediments			No	o info	rmation availal	ole			
Marine water				No	o info	rmation availal	ole		
Marine sediments				No information available					
Food chain				No information available					
Microorganisms in sewage treatment				No information available					
Soil (agricultural)			No information available						
Air				No	o info	rmation availal	ole		
0.0	F								
8.2.	•	re controls							
8.2.1.		riate engineering							
		nce/mixture related ent exposure durir			•	nal protective on the workspace.	equipment. Do r	not eat, drink o	r
	Structu exposu	ral measures to pro re:	event	No ir	nform	ation available			
	Organis exposu	sational measures r re:	to prevent	Organization of work in order to reduce other worker's influence during work process.					
	Technic exposu	ral measures to pre re:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.					
8.2.2.	Persona	al protection equip	ment:						
8.2.2.1.	Eye and	I face protection:				sses tested and such as EN 160	l approved unde 5(EU).	er appropriate	
8.2.2.2.	Skin pro	otection:							
	Hand p	rotection:		prote	ective	gloves have to	istant gloves. The special states of the standard E	cifications of EU	



Page 7 of 17

Trade name:	TISSUE MARKING DYES, LILAC						
Product code:	3408-7-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 S	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 workplace.	
	Technical measures to prevent exposure:	See Section 6	

Information on basic physic	al and chemical properties	
	Value	Method
Physical state:	liquid	No information available
Colour:	lilac	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 boilin 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	e: 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



Page 8 of 17

Trade name:		TISSUE MARK	TISSUE MARKING DYES, LILAC		
Product code:	3408-7-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).			

SECTION 11. Toxicological information								
11.1.	Informati	ormation on toxicological effects						
Acute toxicity:								
Route o		Method	Species	Effect Dos LD ₅₀ /LC ATE _{mi}	se C ₅₀ or	Exposure time	9	Results
Oral:		No information available	rat	LDs	50	No information available		5.840 mg/kg (2-propanoll)
Dermal:		No information available	rabbit	LDg	50	No information available	• • •	12.800 mg/kg (2-propanol)
Inhalation:		No information available	rat	LC ₅	LC ₅₀		nol) a)	37.5 mg/l (2-propanol) 9.850 mg/m³ air (ammonia)
	Specific target organ toxicity - single exposure (STOT-SE):							
		Spec	ific effects		Targ	jet organ		Note
Oral:		No information availa	able		_		-	



Page 9 of 17

						Po	age 9 of 17	
Trade name:				TISSUE MARK	ING DYES, LIL	AC		
Product code:	3408	8-7-X**	Date o	of compilation:	14 Novembe	er 2022	Version:	5
Dermal:			n available		-	-		
Inhalation:	No in	formatio	n available		-	-		
Aspira	ation haza	rd:		_				
Irritati	ion and co	rrocion						
IIIItati	ion and cc		posure time Species		Evaluation Method		Note	
		No			Lvaluation	Method	mild skin	
Skin corrosion/irritation:		availa	information rabbit		-		irritation	
Serious irritation	a to ovos:	No	information	formation			ovo irritatio	
Serious irritation	i to eyes.	availa	able		24 h -		eye irritation	
	ization							
		e an allergic sk	in reaction.					
Respiratory sensitization:			ersons may dis	play irritation.				
SCHSIGZACION.								
Symp	toms relat	ed to ph	ysical, chemica	al, and toxicologic	cal properties			
Oral exposure:		1	o known specific symptoms. May cause discomfort if swallowed.					
Dermal exposur	e:	No kno	No known specific symptoms. May cause discomfort.					
Inhalation expos	sure:	No known specific symptoms. Aerosols/vapor may cause respiratory system irritation.						
Eye exposure:		No kno	No known specific symptoms. May cause mild eye irritation.					
Repea	ated dose	toxicity (subacute, sub	chronic, chronic)				
	Do	se	Exposure time	Species	Method	Evaluation	Note	
	No infor	mation	No	No	No	No	No	
Subacute oral	available		information available	information available	information available	information available	informati available	on
			No	No	No	No	No	
Subacute dermal	No infor		information	information	information	information	informati	on
ueiiiidi	avaiiaDle	-	available	available	available	available	available	
Subacute	No infor	mation	No information	No information	No information	No information	No information	on
inhalation	available	9	available	available	available	available	available	
Cubebrenia	No infe	·matias	No	No	No	No	No	
Subchronic oral	No infor		information	information	information	information	informati	on
			available	available	available	available	available	



Page 10 of 17

Trade name:		TISSUE MARK	KING DYES, LILAC		
Product code:	3408-7-X**	Date of compilation:	14 November 2022	Version:	5

ormation ir a a broken ir a le	No nformation available No nformation	No information available No information	No information available No information	No information available No information	No information available
ormation ir	nformation				
	ivailable	available	available	available	information available
ormation ir	No nformation available	No information available	No information available	No information available	No information available
ormation ir	No nformation available	No information available	No information available	No information available	No information available
		<u> </u>			
Specific target organ toxicity - repeated exposure (STOT-RE):				0.00	Note
		organ toxicity - repeated	organ toxicity - repeated exposure (STO	organ toxicity - repeated exposure (STOT-RE):	available available available 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)



Page 11 of 17

Trade name:	TISSUE MARKING DYES, LILAC				
Product code:	3408-7-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 ₅₀	96 hours	Pimephales promelas (fathead minnow)	-	-	9.640 mg/l (2-propanol)
Crustacea:	EC ₅₀	48 hours	Daphnia magna (water flea)	-	-	13.299 mg/l (2-propanol) 25.4 mg/l (ammonia)
Algae/aquatic plants:	IC ₅₀	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 ₅₀	96 hours	-	_	-	-
Crustacea:	EC ₅₀	48 hours	-	-	-	-



Page 12 of 17

	ersion: 5
Algae/aguatic plants: IC-2 72 hours -	
Algae/aguatic plants: ICsa 72 hours -	
Other organisms	
12.2. Persistence and degradability	
Abiotic degradation	***
Degradation half-lives Method Evaluation	Note
Marine water No information available No information available No information available	-
Fresh water No information available No information available No information available	-
Air No information available No information available No information available	-
Soil No information available No information available No information available	-
Biodegradation	
% Degradation Time (days) Method Evaluation N	ote
No information No information No information - available available available	
12.3. Bioaccumulative potential	
Octanol-water partition coefficient (log Kow)	
Value Concentration pH °C Method Evaluation	Note
No No information No information No information -	
information available available available	
avaliable	
Bioconcentration Factor (BCF)	
	ote
No information No information No information	<u> </u>
available available available -	
Chronic ecotoxicity	
Value Dose Exposure time Species Method Evaluation	Note



Page 13 of 17

									P	age 13 of 17	
Trade name:				TISSUE MARKING DYES, LILAC							
Product code: 3		340	3408-7-X** D		Date of compilation: 1		14 No	vember	2022	Version: 5	
Chronic toxicity on fish Chronic toxicity on		n	LC ₅₀	available ava		ormation information availab No ormation information information		ole available No			
crustace	ea (Daphn	a)	LC50	available	availab		availab	1	available	1	
12.4.	Mobility										
	Known	or prec	licted distr	ribution in envir	ronment	al comp	artments	•			
	Surface	tensio	n:								
	Value		°C	Concen	tration		Metho	od		Note	
	No informa n availal	tio ir	lo nformatior vailable	No inforr available		No in	formation ble	n	-		
	Adsorp	ion / c	desorption								
Transpo	ort		efficient constant	log Kov	v E	vaporat	on rate	te Method		Note	
Soil-wat	ter ava	inform ilable		No informa available	a	lo inforn vailable		No info availabl	e	-	
Water- <i>a</i>	air	inform ilable	nation	No informa available		Io inforn vailable	nation	No info availabl		-	
Soil-air		inform ilable	nation	No informa		lo inforn	nation	No info		-	
	dVa	парте		avaliable	į a	vailable		avallabl	e		
12.5.	Results	of PBT	and vPvB	assessment							
					•			•		ioaccumulative	
	and toxi	C (PB1), or very p	persistent and v	ery bload	ccumuia	uve (VPVI	D) at level	S OT U. 1% O	r nigner.	
12.6.	Endocrii	ne disr	upting pro	perties							
	The sub	stance	/mixture d	loes not contair							
				REACH Article 5 (EU) 2018/605 a					ulation (EU)) 2017/2100 or	
	Commis	5.511 10	egalation	(20, 2010,003 (0.170	or mgner	••			
	Other a										
12.7.	Other at	verse	effects								



Page 14 of 17

Trade name:		TISSUE MARK	ING DYES, LILAC			
Product code:	3408-7-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 co- 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	<u> </u>	Not regulated
	er shipping name:	-
	t hazard class(es):	-
Packing		-
Environmental hazards:		-
Special precautions for user:		-
Transporting/shipment by		by rail (RID)
UN number:		Not regulated
	er shipping name:	
Transpoi	t hazard class(es):	- · · · · · · · · · · · · · · · · · · ·



Trade name:

SAFETY DATA SHEET

TISSUE MARKING DYES, LILAC

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

Page 15 of 17

Product code:	3408-7-X**	Date of compilation:	14 November 2022	Version:	5
Fa.da					
Environmental haza		-			
Special precautions		-			
	ting/shipment by inla				
UN number:		Not regulated			
UN proper shipping	g name:	-			
Transport hazard cl	lass(es):	-			
Packing group:		-			
Environmental haza	ards:	-			
Special precautions	for user:	-			
Transpor	ting/shipment by sea	(IMDG)			
UN number:		Not regulated			
UN proper shipping	g name:	-			
Transport hazard cl	lass(es):	-			
Packing group:		-			
Environmental haza	ards:	-			
Special precautions	s for user:	-			
Transport in bulk a of MARPOL73/78 a	ccording to Annex II and the IBC code:	-			
Transpor	ting/shipment by air ((ICAO-TI/IATA-DGR)			
UN number:		Not regulated			
UN proper shipping	g name:	-			
Transport hazard class(es):		-			
Packing group:		-			
Environmental hazards:		-			
Special precautions	for user:	-			
Further information	า: -				

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:	-				



Page 16 of 17

Trade name:	TISSUE MARKING DYES, LILAC				
Product code:	3408-7-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.



Page 17 of 17

Trade name:	TISSUE MARKING DYES, LILAC				
Product code:	3408-7-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.			
	H:	315	Causes skin irritation.			
	н.	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: Exposure:	scenario resulting	to Chemical sa	fety assessment

-



Page 1 of 17

Trade name:	TISSUE MARKING DYES, ORANGE				
Product code:	3408-6-X**	Date of compilation:	14 November 2022	Version:	5

SECTIO	ON 1: Identification of th	e subst	ance/ı	mixture and	of the company/undertaking
1.1.	Product identifier				
	Trading name:	TISSUE MARKING DYES, ORANGE			ANGE
	Chemical name: -	-			
	Product code:	3408-6-2	X**		
1.2.	Relevant identified use	s 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 supplier	of the sa	afety d	lata sheet	
	Supplier: BioG		BioG	inost Ltd.	
	Address:		Medj	ljugorska 59, Zagreb	
	Telephone number:		+385	5 1 2409997	
	Telefax:		+385	5 1 2404039	
	e-mail of competent po	erson:	<u>msds</u>	ls@biognost.hr	
	National contact:		-		
1.4.	Emergency telephone	number	S		
	National Protection and	d Rescu	e Dire	ctorate:	112
	Medical information:				+385 1 2348 342
	Other information:	Other information:			-

SECTIO	ECTION 2. Hazards identification				
2.1.	Classification of the substance or mixture				
2.1.1.	Classification according to F	Regulation (EC) No	1272/2008 (CLP)		
	Hazard class and cat	egory 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 MARKIN	IG DYES, ORANGE		
	Identification number:	-			
	Authorisation number:	-			



Page 2 of 17

Trade name:	TISSUE MARKING DYES, ORANGE			_	
Product code:	3408-6-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	mposition/informa	tion on ingredi	ients	
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 me	easures			
	General notes:	Move out of dangerous area. Show this safety data sheet to the doctor and first responders.			



Page 3 of 17

Trade name:	TISSUE MARKING DYES, ORANGE				
Product code:	3408-6-X**	Date of compilation:	14 November 2022	Version:	5

	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	s 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	Indication of any immediate medical attention and special treatment needed			
	Treat symptomatically.				

SECTIO	ON 5. Firefighting measures			
5.1.	Extinguishing media			
	Suitable extinguishing media:	Use dry chemical, CO ₂ , water spray (FOG) or foam.		
	Unsuitable extinguishing media:	Avoid solid water stream as it may scatter and spread fire.		
5.2.	Special hazards arising from the su	bstance or mixture		
	Hazardous by products of fire:	Use water spray to cool fire exposed container surfaces and to protect personnel. Thermal decomposition can produce carbon monoxide (highly toxic) and carbon dioxide (an asphyxiant at sufficient concentrations).		
5.3.	Advice for firefighters			
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. Cool closed containers exposed to fire with water spray or vapor.			
5.4.	Additional information			
	9	ring due to increase in pressure. Remove sources of heat and nvironment with extinguishing media.		

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



Page 4 of 17

Trade name:					
Product code:	3408-6-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 equipment (see Section 8).	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	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 venti	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.				



Page 5 of 17

Trade name:	TISSUE MARKING DYES, ORANGE					
Product code:	3408-6-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	rameter	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	14/3	36		-
Substance: -								
EC No: -		CAS No:	-					
DNEL								
				Industrial				
Route of exposure:	Acu	te effect	Acute effect		Chronic effect			Chronic effect
·		local	S	ystemic	local			systemic
Oral	-		-		-			-
Inhalation	_	6 mg/ m ³ 47.6 mg/ m ³ (ammonia)			14 mg/ (ammor			500 mg/m ³ (propan-2-ol) 47.6 mg/ m ³ (ammonia)
Dermal	-		6.8 mg,	/kg bw/day nia)	-			888 mg/kg bw/day (propan-2-ol) 6.8 mg/kg bw/day (ammonia)
Critical physical parameters: solubility, flammability, corrosivity:								
		<u> </u>		Consumer		<u> </u>		
D (Acu	te effect	Ac	ute effect	Chro	onic effect		Chronic effect
Route of exposure:		local	S	ystemic	local			systemic



Page 6 of 17

Trade na	ame:	TISSUE MARKING DYES, ORANGE					
Product	code:	3408-6-X**	Date of c	ompilatio	n: 14 November 2	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 prot	ection target		PNEC			
Fresh wat	ter			No info	rmation available		
Freshwate	er sedimer	nts		No info	rmation available		
Marine w	ater			No info	rmation available		
Marine se	ediments			No information available			
Food chain				No information available			
Microorg	anisms in s	sewage treatment		No information available			
Soil (agric	cultural)			No info	rmation available		
Air				No information available			
8.2.	Exposur	e controls					
8.2.1.	Approp	riate engineering o	controls				
		ce/mixture related ent exposure durin		Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structur exposur	ral measures to pre	event	No information available			
	Organis exposur	ational measures t	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.	Persona	l protection equip	ment:				
8.2.2.1.	Eye and	IN TACE DIOTECTION:		Safety glasses tested and approved under appropriate standards such as EN 166(EU).			
8.2.2.2.	Skin pro	otection:					
	Hand pı	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 from it.			



Page 7 of 17

Trade name:					
Product code:	3408-6-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.		
	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		

9.1.	Information on basic physical a	and chemical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	orange	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



Page 8 of 17

Trade name:					
Product code:	3408-6-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	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).

SECTION	N 11. Toxi	cological information	ı					
11.1.	Informat	ion on toxicological eff	ects					
	Acute to	xicity:						
Route of exposure		Method	Species	Effect Dos LD ₅₀ /LC ATE _{mi}	se C ₅₀ or	Exposur time	e	Results
Oral:		No information available	rat	LDs	50	No informati available		5.840 mg/kg (2-propanoll)
Dermal:		No information available	rabbit	LDs	50	No informati available		12.800 mg/kg (2-propanol)
Inhalatic	n:	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		-		-	



Page 9 of 17

Trade name:	TISSUE MARKING DYES, ORANGE						
Product code:	3408	-6-X**		of compilation:	14 Novembe		Version: 5
			:				1
Dermal:			n available		-	-	
Inhalation:	No inf	ormatio	n available		-	-	
Acnir	ation hazar	d:					
Aspiro	ation nazar	u.					
Irritat	ion and co	rrosion					
:		Exp	osure time	Species	Evaluation	Method	Note
Skin corrosion/i	irritation:	No availa	information able	rabbit	-	-	mild skin irritation
Serious irritatio	n to eyes:	No availa	information able	rabbit	24 h	-	eye irritation
	tization						
Skin sensitizatio	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		II	
Oral exposure: Dermal exposur	ro			mptoms. May cau mptoms. May cau		swallowed.	
Inhalation expo				mptoms. Aerosol		ise respiratory	system irritation
Eye exposure:	Jui C.			mptoms. May cau			system interioris
<u> </u>			, specie s)				
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 information available
Subacute dermal	No infori available		No information available	No information available	No information available	No information available	No information available
Subacute inhalation	No infori available		No information available	No information available	No information available	No information available	No information available
Subchronic oral	No infori available		No information available	No information available	No information available	No information available	No information available



Page 10 of 17

Trade name:		TISSUE MARKIN	G DYES, ORANGE		
Product code:	3408-6-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 -	repeated exposure	(STOT-RF)
Specific target	Oluan toxicity -	TEDEALEU EXPOSUIE	(3)OITKL).

	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)



Page 11 of 17

Trade name:		TISSUE MARKIN	G DYES, ORANGE		
Product code:	3408-6-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	al informa	ition				
12.1. Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	Pimephales promelas (fathead minnow)	-	-	9.640 mg/l (2-propanol)
Crustacea:	EC ₅₀	48 hours	Daphnia magna (water flea)	-	-	13.299 mg/l (2-propanol) 25.4 mg/l (ammonia)
Algae/aquatic plants:	IC ₅₀	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 ₅₀	96 hours	-	_	-	-
Crustacea:	EC ₅₀	48 hours	-	-	-	-



Page 12 of 17

Trade name	2:			T	SSUE MARK	ING D	YES, ORAN	IGE		
Product cod	de:	3408-6-X	**	Date o	f compilation	n: 14	November	2022	Versio	n: 5
Algae/aquati	-	s: IC ₅₀	72 ho	ours -		-	-		-	
Other organi	isms	-	-			-	-		-	
		e and degra	dability							
Ab	iotic de	gradation								
	De	egradation h	nalf-lives		Method			Evaluation		Note
Marine water	No in	nformation a	vailable	No i	nformation av	ailable	No info	rmation avai	ilable	-
Fresh water	No in	nformation a	ıvailable	No i	nformation av	ailable	No info	rmation avai	lable	-
Air	No in	nformation a	vailable	No i	nformation av	ailable	No info	rmation avai	lable	_
Soil	No in	nformation a	vailable	No i	nformation av	ailable	No info	rmation avai	lable	_
Bio	odegrad	dation								
% Degradat	ion	Time (days)		Method		Evaluation		Note	
No informati available		No informat available	ion	No ii avail	nformation able	No in availa	formation ble	-		
				, i						
	,					•				
12.3. Bio	accum	ulative pote	ntial							
Oc	tanol-w	vater partitio	on coeffic	ient (log	Kow)					
Value	Con	centration	рН	°C	Method	ł	Evaluati	on	Note	1
No information	No in availa	nformation able	-	-	No informat available		No informat available	ion -		
available										
Ric	oconcer	ntration Fact	tor (BCF)							
Value	Jeonee.	Spec			Method		Evaluation	**************************************	Note	
No informati	on I	No informat		No ir	nformation	No	information			
available		available		avail	able	ava	ilable	-		
1										
Ch	ronic e	cotoxicity				1				
Valu	ıe	Dose		oosure :ime	Species	N	Method	Evaluation	1 N	lote



Page 13 of 17

	name:			TIS	SSUE N	1ARKIN	G DYES	S, ORAN	NGE		
Produ	ct code:	340)8-6-X**	Date of	compi	lation:	14 No	vember	2022	Version:	5
Chronic	c toxicity	on	LC ₅₀	No information available No information	No inform availab No inform	ole	No informa availab No informa	le	No information available No information		
crustac	ea (Daph	nia)		available	availab		availab	1	available		
12.4.	Mobili	ty in soil									
				bution in enviro	onmenta	al compa	rtments	•			
	Cfo	e tensior									
	Valu		°C	Concent	ration		Metho	od		Note	
	No inform n avail	natio ir	lo nformation vailable	No inform available	nation	No info	formation		-		
Transn			desorption pefficient	log Kow	F	vanoratio	on rate	M	ethod	Note	
Soil-wa	ort N av air air a	A/D co Henry's lo inform vailable lo inform vailable	pefficient constant nation	log Kow No informat available No informat available	tion N av tion N av	vaporation o inform vailable o inform vailable	ation	No info availab No info availab	ormation le	Note	
Transpo Soil-wa Water- Soil-air	ort ater air N N N	A/D co Henry's lo inform vailable lo inform	pefficient constant nation	No informat available No informat	tion N av tion N av	o inform vailable o inform	ation	No info availab No info availab	ormation le ormation le ormation		
Soil-wa	ort ater air N av Av Av Av Av Av Av Av	A/D co Henry's lo inform vailable lo inform vailable lo inform vailable	pefficient constant nation nation	No informat available No informat available No informat	tion N av tion N av	o inform vailable o inform vailable o inform	ation	No info availab No info availab No info	ormation le ormation le ormation		
Soil-wa Water- Soil-air	ort Ater N av air N av Ar This su	A/D co Henry's lo inform vailable lo inform vailable lo inform vailable	pefficient constant nation nation and vPvB a	No informat available No informat available No informat available	tion N av tion N av tion N av	o inform vailable o inform vailable o inform vailable	ation ation ation	No info availab No info availab No info availab	ormation le ormation le ormation le	- - ioaccumulativ	re e
Soil-wa Water- Soil-air 12.5.	ort ater air N av Result: This su and to	A/D co Henry's lo inform vailable lo inform vailable lo inform vailable s of PBT ubstance	pefficient constant nation nation and vPvB a	No informat available No informat available No informat available assessment ontains no compersistent and ve	tion N av tion N av tion N av	o inform vailable o inform vailable o inform vailable	ation ation ation	No info availab No info availab No info availab	ormation le ormation le ormation le	- - ioaccumulativ	re
Soil-wa Water- Soil-air	rater air Nan An	A/D co Henry's lo inform vailable lo inform vailable lo inform vailable s of PBT ubstance pxic (PBT)	pefficient constant nation nation and vPvB a /mixture co), or very po upting pro /mixture do ording to R	No informat available No informat available No informat available assessment ontains no compersistent and ve	tion N av tion N	o inform vailable o inform vailable o inform vailable conside councilation on the commission of the councilation of the counci	red to be ive (vPvl	No info availab No info availab No info availab e either B) at leve	permation le persistent, biels of 0.1% or endocrine de permation le persistent persisten	ioaccumulativ	
Soil-wa Water- Soil-air 12.5.	reter air Nav Average Result: This su and to Endoc The su proper Comm	A/D co Henry's lo inform vailable lo inform vailable lo inform vailable s of PBT ubstance pxic (PBT)	pefficient constant nation nation and vPvB and v	No informat available No informat available No informat available available assessment ontains no compersistent and verboerties bes not contain EACH Article 57	tion N av tion N	o inform vailable o inform vailable o inform vailable conside councilation on the commission of the councilation of the counci	red to be ive (vPvl	No info availab No info availab No info availab e either B) at leve	permation le persistent, biels of 0.1% or endocrine de permation le persistent persisten	ioaccumulativ	



Page 14 of 17

Trade name:	TISSUE MARKING DYES, ORANGE					
Product code:	3408-6-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 made 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 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):	- · · · · · · · · · · · · · · · · · · ·		



Page 15 of 17

Trade name:	TISSUE MARKING DYES, ORANGE				
Product code:	3408-6-X**	Date of compilation:	14 November 2022	Version:	5

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 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:	-					



Page 16 of 17

Trade name:		TISSUE MARKING DYES, ORANGE					
Product code:	3408-6-X**	Date of compilation:	14 November 2022	Version:	5		

	Other EU regulations:	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);		
	Information according 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		
15.0	Chaminal and the canada	nont		
15.2.	Chemical safety assessment			

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.



Page 17 of 17

Trade name:		TISSUE MARKING DYES, ORANGE				
Product code:	3408-6-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.		
	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:	-		
46.7			"X" in the product code marks different volumes (different packaging of the product)		
16.7.	Furth	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.		

ANNEX: Exposure	scenario resultin	g to Chemica	safety a	assessment

-



Page 1 of 17

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			ED	
	Chemical name:	-				
	Product code:	3408-4-	X**			
1.2.	Relevant identified us	Relevant identified uses of the substance or mixture 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:			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:	Supplier: Bio		Gnost Ltd.		
	Address:		Medjı	Medjugorska 59, Zagreb		
	Telephone number:		+385	+385 1 2409997		
	Telefax:		+385	385 1 2404039		
	e-mail of competent p	person:	<u>msds</u> (sds@biognost.hr		
	National contact:					
1.4.	Emergency telephone	number	S			
	National Protection a	National Protection and Rescue Dire		torate:	112	
	Medical information:				+385 1 2348 342	
	Other information:				-	

SECTIO	TION 2. Hazards identification					
2.1.	Classification of the substa	Classification of the substance or mixture				
2.1.1.	Classification according to	Regulation (EC) N	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:	-				



Page 2 of 17

Trade name:	TISSUE MARKING DYES, RED				
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. 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			

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.		



Page 3 of 17

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 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	CTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Use dry chemical, CO ₂ , water spray (FOG) or foam.			
	Unsuitable extinguishing media:	Avoid solid water stream as it may scatter and spread fire.			
5.2.	Special hazards arising from the su	bstance or mixture			
	Hazardous by products of fire:	Use water spray to cool fire exposed container surfaces and to protect personnel. Thermal decomposition can produce carbon monoxide (highly toxic) and carbon dioxide (an asphyxiant at sufficient concentrations).			
5.3.	Advice for firefighters				
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. Cool closed containers exposed to fire with water spray or vapor.				
5.4.	Additional information				
	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		



Page 4 of 17

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 (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 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	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 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 containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C.			
	Packaging materials:	Manufacturer's original packaging.			
	Requirements for storage rooms and vessels:	Keep awa	y from food and drink. Keep the containers osed.		



Page 5 of 17

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: -	Substance: -							
EC No: -		CAS No:	-					
DNEL								
				Industrial				
Route of exposure	a:	te effect local	Acute effect systemic		Chronic effect local		Chronic effect systemic	
Oral	-		-	<i>,</i>	-		-	
Inhalation	36 mg		47.6 mg		14 mg/ m³ (ammonia)		500 mg/m ³ (propan-2-ol) 47.6 mg/ m ³ (ammonia)	
Dermal -			6.8 mg, (ammo	/kg bw/day nia)	-		888 mg/kg bw/day (propan-2-ol) 6.8 mg/kg bw/day (ammonia)	
Critical physical parameters: solubility, flammability, corrosivity:								
	Consumer							
Route of exposure	e: Acu	ite effect local		cute effect Chronic effect local			Chronic effect systemic	



Page 6 of 17

	Page 6 of 17									
Trade na	ame:		TI	SSUE MAF	RKING DYES, RED					
Product	code:	3408-4-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	1	-	-		-	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	nmental protection target			PNEC						
Fresh wat	er			No info	rmation available					
Freshwate	er sedime	ents		No info	rmation available					
Marine w	ater			No info	rmation available					
Marine se	ediments			No info	No information available					
Food cha	in			No info	No information available					
Microorg	anisms ir	n sewage treatmen	t	No info	No information available					
Soil (agric	cultural)			No info	No information available					
Air				No info	No information available					
	1									
8.2.	Expos	ure controls								
8.2.1.		priate engineering								
		ance/mixture relate vent exposure duri			Use personal protective equipment. Do not eat, drink or smoke in the workspace.					
	Struct expos	ural measures to p ure:	revent	No inform	No information 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.	2.2. Personal protection equipment:									
8.2.2.1.	Eye ar	F//D and tace protection.			Safety glasses tested and approved under appropriate standards such as EN 166(EU).					
8.2.2.2.	Skin p	rotection:								
	Hand	protection:		protective	Handle with chemical resistant gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.					



Page 7 of 17

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.			
	Organisational measures to prevent exposure:	Adapt the work process to the required working condition workplace.				
	Technical measures to prevent exposure:		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



Page 8 of 17

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	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).

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



Page 9 of 17

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		-		-			
Aspira	ation hazar	·d:								
: •			:							
Irritat	on and co	1						-		
		Exp	oosure time	Species	Evaluation	M	lethod	Note	9	
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	llergic pe	ersons may dis	play irritation.						
Cumon	tome volet	ad ta ab	veigal abancies	and tovical an	ical properties					
Oral exposure:	torns relati			al, and toxicologi	ause discomfort if	f swall	owed			
Dermal exposur	.e.					Swan	owcu.			
Inhalation exposu			No known specific symptoms. May cause discomfort. No known specific symptoms. Aerosols/vapor may cause respiratory system irritation.							
Eye exposure:			No known specific symptoms. Aerosois/vapor may cause respiratory system imitation. No known specific symptoms. May cause mild eye irritation.							
			····· <u>/</u>							
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 information available No inform available		No information available	No information available		rmation lable	No informat available		
Subacute inhalation	No infor available		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		



Page 10 of 17

Trade name:		TISSUE MAR	KING 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)



Page 11 of 17

Trade name:		TISSUE MAR	KING 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 ₅₀	96 hours	Pimephales promelas (fathead minnow)	-	-	9.640 mg/l (2-propanol)	
Crustacea:	EC ₅₀	48 hours	Daphnia magna (water flea)	-	-	13.299 mg/l (2-propanol) 25.4 mg/l (ammonia)	
Algae/aquatic plants:	IC ₅₀	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 ₅₀	96 hours	-	-	-	-	
Crustacea:	EC ₅₀	48 hours	-	-	-	-	



Page 12 of 17

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 /agusti	م مام م)+c:	72 haum							
Algae/aquati	······		72 hour			-			-	
Other organi	sms	-	-	-		-	-		-	
12.2. Per	.cicton	as and dears	امامانا							
		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	No information available		No i	nformation av	ailable	No info	rmation a	vailable	-
Fresh water	No information available		ailable	No i	nformation av	ailable	ole No information availa		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								
% Degradation Time (d		ays)		Method		Evaluation		Note		
No information No information		on				nformation				
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 informati		-	
information	avai	lable			available		available			
available										
D:-			(DCE)							
Value	conce	entration Facto Speci			Method		Evaluation		Nati	_
No informati	on	No information		No i	nformation	Nc	information		Note	
available	OII	available	511		lable		ailable	_		
Ch	ronic	ecotoxicity								
Valu	ıe	Dose	Expo: tim		Species		Method	Evaluat	ion	Note



Page 13 of 17

	name:			•	TISSUE	MARK	(ING DY	'ES, REC			
Produc	ct code:	3408	3-4-X**	Date of o	compila	ation:	14 November 2022		Version:	5	
Chronic	toxicity o	on fish	LC ₅₀	No information available	No inform availat				No information available	-	
Chronic toxicity on crustacea (Daphnia)			EC ₅₀	No information available	No No information		information i		No information available	-	
12.4.	Mobilit	y in soil	<u> </u>								
				ribution in enviro	onment	al comp	artments	•			
	Curtosa	e tensior									
	Valu		°C	Concent	ration		Metho	od		Note	
	No No		nformation	No inform available	nation	No in availa	information		-		
	Adsorption / desorption A/D coefficient Henry's constant No information										
	ort No	A/D co Henry's o inform	pefficient constant	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 co Henry's o informaliable o informaliable o informaliable o informaliable o informaliable o informaliable o informaliable o informaliable	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 oersistent, bid ls of 0.1% or	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 oersistent, bid ls of 0.1% or	oaccumulatinhigher.	



Page 14 of 17

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:	-
Environn	nental hazards:	-
Special p	precautions for user:	-
	Transporting/shipment b	y rail (RID)
UN num	ber:	Not regulated
UN prop	er shipping name:	-
Transpoi	rt hazard class(es):	-
Packing	group:	-



Page 15 of 17

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

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	ION 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:	-				



Page 16 of 17

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.				



Page 17 of 17

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.	Training advice:		-		
16.7.	Further information:		"X" in the product code marks different volumes (different packaging of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.		

ANNEX: Exposure scenario resulting to Chemical safety assessment
-



Page 1 of 17

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	MARKI	NG DYES, YEI	LOW	
	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 agains	st:		Only the ide	entified uses are advised.	
	Reason why uses advised against:			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:		BioG	BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb			
	Telephone number:	Telephone number:		+385 1 2409997		
	Telefax:	Telefax:		+385 1 2404039		
	e-mail of competer	e-mail of competent person:		msds@biognost.hr		
	National contact:	National contact:		-		
1.4.	Emergency telephone numbers					
	National Protection and Rescue Direction		ctorate:	112		
		Medical information:				
	Medical information	า:			+385 1 2348 342	

SECTIO	ON 2. Hazards identification					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification according to	Regulation (EC) No 1	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 DYES, YELLOW					
	Identification number:	-				
	Authorisation number: -					



Page 2 of 17

Trade name:	TISSUE MARKING DYES, YELLOW				
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 measures				
	General notes:	Move out of dangerous area. Show this safety data sheet to the doctor and first responders.			



Page 3 of 17

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

4.3.	Indication of any immediation of any immediation of any immediation.	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 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	Extinguishing media				
	Suitable extinguishing media:	Use dry chemical, CO ₂ , water spray (FOG) or foam.				
	Unsuitable extinguishing media:	Avoid solid water stream as it may scatter and spread fire.				
5.2.	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 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.				

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



Page 4 of 17

Trade name:	TISSUE MARKING DYES, YELLOW					
Product code:	3408-2-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 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	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. Thoroughly wash 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 containers i 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 awa	y from food and drink. Keep the containers osed.		



Page 5 of 17

Trade name:	TISSUE MARKING DYES, YELLOW					
Product code:	3408-2-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. EXPOS	URE CO	NTROLS / P	ERSON A	AL PROTECTIO	N				
8.1. Control pa	rameter	rs							
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		7664-41-7		20/50	14/36		-		
i									
Substance: -									
EC No: -		CAS No: -							
DNEL									
				Industrial					
Route of exposure:	Acute effect		Acute effect		Chronic effect		Chronic effect		
Route of exposure.		local s		ystemic	local		systemic		
Oral -			-		-		-		
Inhalation	36 mg	,			14 mg/ m³ (ammonia)		500 mg/m ³ (propan-2-ol) 47.6 mg/ m ³ (ammonia)		
Dermal	-	6.8 mg, (ammo		/kg bw/day nia)	-		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					
Doute of overes	Acu	te effect	Ac	ute effect	Chronic effect		Chronic effect		
Route of exposure:		local	ocal systemic		local		systemic		



Page 6 of 17

Trade na	ame:		TISS	SUE MARI	(ING DYES, YELLOV	v		
Product	code:	3408-2-X**	Date of c	ompilatior	n: 14 November 20	O22 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 prote	ection target		PNEC				
Fresh wat	ter			No info	rmation available			
Freshwat	er sedimen	nts		No info	rmation available			
Marine w	ater			No info	rmation available			
Marine se	ediments			No information available				
Food cha	in			No information available				
Microorg	anisms in s	sewage treatment		No information available				
Soil (agri	cultural)			No info	rmation available			
Air				No information available				
8.2.	Exposur	e controls						
8.2.1.	Approp	riate engineering o	controls					
		ce/mixture related ent exposure durin			nal protective equipments	ent. Do not eat, drink or		
	Structur exposur	ral measures to pre re:	event	No information available				
	Organis exposur	ational measures t e:	o prevent	Organization of work in order to reduce other worker's influence during work process.				
	Technic exposur	al measures to pre e:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.				
8.2.2.	Persona	l protection equip	ment:					
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 pr	rotection:		protective	_	lloves. The selected the specifications of EU andard EN 374 derived from		



Page 7 of 17

Trade name:		TISSUE MARKING DYES, YELLOW					
Product code:	3408-2-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.			
	Organisational measures to prevent exposure:	workplace.			
	Technical measures to prevent exposure:				

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



Page 8 of 17

Trade name:		TISSUE MARKING DYES, YELLOW				
Product code:	3408-2-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).				

SECTION 11. Toxicological information									
11.1.	Informat	nformation on toxicological effects							
	Acute to	xicity:							
Route o		Method	Species	Effect Dos LD ₅₀ /LC ATE _{mi}	se C ₅₀ or	Exposur time	e	Results	
Oral:		No information available	rat	LD ₅	LD ₅₀ i		on e	5.840 mg/kg (2-propanoll)	
Dermal:		No information available	rabbit	LD ₅	LD ₅₀		on e	12.800 mg/kg (2-propanol)	
Inhalation:		No information available	rat	LC ₅	LC ₅₀		nol) a)	37.5 mg/l (2-propanol) 9.850 mg/m³ air (ammonia)	
Specific target organ toxicity - single exposure (STOT-SE):									
Specific effects				Targe	et organ	Note			
Oral:		No information availa	able		-		-		



Page 9 of 17

Trade name:				ΓISSUE MARKII	NG DVES VELI		age 9 of 17	
	Product code: 3408-			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							
		Exp	osure 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	-	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		No known specific symptoms. May cause discomfort.						
Inhalation expo	sure:	No known specific symptoms. Aerosols/vapor may cause respiratory system irritation.						
Eye exposure:		No known specific symptoms. May cause mild eye irritation.						
-		• • • •						
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 No information 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	



Page 10 of 17

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

- 	<u> </u>	C: f: f				NI-t-
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)



Page 11 of 17

Trade name:		TISSUE MARKIN	IG DYES, YELLOW		
Product code:	3408-2-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 ₅₀	96 hours	Pimephales promelas (fathead minnow)	-	-	9.640 mg/l (2-propanol)
Crustacea:	EC ₅₀	48 hours	Daphnia magna (water flea)	-	-	13.299 mg/l (2-propanol) 25.4 mg/l (ammonia)
Algae/aquatic plants:	IC ₅₀	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 ₅₀	96 hours	-	_	-	-
Crustacea:	EC ₅₀	48 hours	-	-	-	-



Page 12 of 17

Trade name:				T	TISSUE MARKING DYES, YELLOW					
Product cod	de:	3408-2-X*	k	Date of	f compilatior	ո: 14	November	Vers	sion: 5	
Algae/aquati	c plant	s: IC ₅₀	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	nformation av	ailable	No info	rmation av	vailable	-
Fresh water	No in	formation av	ailable	No ii	nformation av	ailable	No info	rmation av	vailable	-
Air	No in	formation av	ailable	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 information	on	No ii avail	nformation able	No ii avail	nformation able	-		
	·			·						
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 informat available	tion	No informat available	ion -		
Bic	concer	ntration Facto	or (BCF)							
Value		Speci	es		Method		Evaluation		Note	е
No informati available		No information	on	No ir availa	nformation able		information ailable	-		
Ch	ronic e	cotoxicity								
Valu		Dose		osure ime	Species		Method	Evaluati	on	Note
		1								



Page 13 of 17

	name: TISSUE MARKING DYES, YELLOW										
Product code: 3408-2-X**		Date of compilation:		14 November 2022		Version:	5				
Chronic toxicity on fish Chronic toxicity on crustacea (Daphnia)		$\begin{array}{ccc} & LC_{50} & information \\ & available & \\ & No & \\ EC_{50} & information & \\ \end{array}$		No information available No information		No information available No information		No information available No information			
	(= 0			available	availat	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 able		-	-	
	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	



Page 14 of 17

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

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	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	roduct'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. o the collectors authorized by the ministry in charge.				
13.1.6.	Relevant Community pr	ovisions:				
	-					
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:	-				
Environr	nental hazards:	-				
Special p	precautions for user:	-				
	Transporting/shipment b	y rail (RID)				
UN num	ber:	Not regulated				
UN prop	er shipping name:					
Transpo	rt hazard class(es):	-				
······································	group:	-				



Page 15 of 17

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

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 en	Safety, health and environmental regulations/legislation specific for the substance or mixture					
	EU regulations						
	Authorisation and/or	restrictions on use					
	Authorisations:	-					
	Restrictions:	-					



Page 16 of 17

Trade name:	TISSUE MARKING DYES, YELLOW				
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 (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
	Information according 1	dangerous substances, mixtures and articles (Annex XVII); 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-
	guideline)	1333, 13, Le disout illimation of chilissions of volutile 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 assessm	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.					



Page 17 of 17

Trade name:		TISSUE MARKIN	JE MARKING DYES, YELLOW		
Product code:	3408-2-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)				
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.	Train	ing advice:	-			
			"X" in the product code marks different volumes (different packaging of the product)			
16.7.	Furth	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.			

ANNEX: Exposure:	scenario resulting	to Chemical sa	fety assessment

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