Page 1 of 15

3

Trad	ing	name:
Prod	luct	code:

TB-P-X**

TOLUIDINE BLUE, C.I. 52040 Revision date: 30 July 2019

Version:

1.1.	Product identifier					
	Substance name: T		DINE BLUE,	C.I. 52040		
	EC No: 2	202-14	6-2			
	Synonyms: E	Basic Bl	lue 17, Tolo	onium Chloride		
	Product code: T	B-P-X	**			
	REACH registration					
	CAS No: 9	92-31-9	9			
	Index no.: -					
1.2.	Relevant identified uses of the	Relevant identified uses of the substance or mixture and uses advised against				
	Uses:		For microscopy.			
	Uses advised against:		Only the identified uses are advised.			
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device listed in the Registry of medical devices at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes			
1.3.	Details of the supplier of the safety data sheet					
	Supplier:	Bic	ioGnost Ltd.			
	Address:	Me	ledjugorska 59, Zagreb			
	Telephone number:	+3	-385 1 2409997			
	Fax no.:	+3	85 1 24040	039		
	e-mail of competent person:	<u>ms</u>	ds@biogn	<u>ost.hr</u>		
	National contact person:	-				
1.4.	Emergency telephone number					
	National Protection and Rescu	e Dire	ctorate:	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 127	2/2008 (CLP)				
	Hazard class and category code:	Hazard statements*:				
	Not identified as hazardous substances -					
2.1.2.	Additional information					
	-					
*For ful	*For full text of Hazard- and EU Hazard-statements: see Section 16					
2.2.	Label elements					

Page 2 of 15

Trading name:		BLUE, C.I. 52040			
Product code:	TB-P-X**	Revision date:	30 July 2019	Version:	3

	Product identification:	TOLUIDINE BLUE, C.I. 52040
	Identification number:	-
	Authorisation number:	-
	Hazard pictograms:	-
	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Further information:	-
2.3.	Other hazards	
	-	

SECTION 3. Composition/information on ingredients					
CAS No	EC No:	Index no.	Identification name	Weight % content (or range)	
92-31-9	202-146-2	-	Tolonium chloride	90-100 %	

SECTI	ON 4. First aid measures	
4.1.	Description of first aid measure	S
	General notes:	-
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well- ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to- mouth) and contact a physician.
	Following skin contact:	Remove contaminated clothing. Immediately begin rinsing with copious amounts of water for at least 15 min. Seek medical assistance if the symptoms of irritation remain.
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician.
	Following ingestion:	DO NOT induce vomiting. If the afflicted person is unconscious, do not provide them with anything orally. Drink at most two glasses of water. Seek medical assistance.
	Self-protection of the first aider	· _
4.2.	Most important symptoms and	effects, both acute and delayed
	Following inhalation:	Harmful if inhaled.
	After skin contact:	Harmful in contact with skin.
	Following eye contact:	Risk of serious damage to eyes.
	Following ingestion:	Harmful if swallowed.
4.3.	Indication of any immediate me	edical attention and special treatment needed

Page 3 of 15 Trading name: **TOLUIDINE BLUE, C.I. 52040** TB-P-X** Version: 3 Product code: Revision date: 30 July 2019

-

SECTI	CTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media: Water, foam, dry powder, CO ₂				
	Unsuitable extinguishing media: -				
5.2.	Special hazards arising from the substance or mixture				
	Hazardous combustion products: no information available				
5.3.	Advice for firefighters				
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. Cool closed containers exposed to fire with water spray or vapor.				
5.4.	Additional information				
	Make sure the water used for extinguishing fire does not contaminate water surface or underground waters system.				

6.1.	Personal precautions, protective equipment and emergency procedures					
6.1.1.	For non-emergency personnel					
0.1.1.	Protective equipment		Use personal protective equipment (see Section 8).			
	Accident prevention n		Avoid breathing in dust. Avoid touching the substance. Secure proper ventilation.			
	Emergency procedure	s:	Leave the hazardous area, take notice of the emergency procedures.			
6.1.2.	For emergency respor	nders:				
	-					
6.2.	Environmental precautions:					
	Do not allow the product enter drainage.					
6.3.	Methods and materia	ods and material for preventing spreading and cleaning				
6.3.1.	For creating barriers, covering and sealing:	of the po	Cover the drains. Collect, bind and pump out all the spilled material. Take notice of the possible material restriction (see Sections 7 and 10). Collect in dry form. Avoid generation of dust.			
6.3.2.	Cleaning up:	Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.				
6.3.3.	Other information:	-				
6.4.	Reference to other see	ctions				
	Indications about waste treatment, see Section 13.					

Page 4 of 15

Trading name:	TOLUIDINE BLUE, C.I. 52040					
Product code:	TB-P-X**	Revision date:	30 July 2019	Version:	3	

SECTIO	ON 7. Handling and storage					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:	Keep away from sources of ignition and heat. Do not use sparkling tools.				
	Measures to prevent aerosol and dust generation	on: Secure proper ventilation.				
	Environmental precautions:	Prevent spilling into the sewage system and waterways.				
	Other measures:	-				
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.					
7.2.	Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions:	Minimize dust formation. Avoid breathing in dust. Avoid contact with skin, eyes, and clothes. Keep in tightly closed containers.				
	Containers materials:	Manufacturer's original packaging.				
	Requirements for storage rooms and vessels:	Keep in a tightly closed container. Keep in cool, dry and well ventilated space away from non-compatible substances.				
	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:	No information available.				
7.3.	Specific end use(s)					
	Recommendations:	-				
	Industrial sector specific solutions:	-				

SECTION 8. Exposure controls/personal protection								
8.1.	Control parameters	itrol parameters						
Substance		CAS No		Occupational exposure limit values/short term values		Biological limit values		
				ppm	mg/m ³			
-		-		-	-	-		
Does no	ot contain substances re	gulated by the	prof	essional exposi	ure limit values			
Substan name:	ce _	e _						
EC No:	-	- CAS No: -						
DNEL								

				Page 5 of 2	15
Trading name:		TOLUIDINE BL	UE, C.I. 52040		
Product code:	TB-P-X**	Revision date:	30 July 2019	Version:	3

			Indus	trial				
Route of	f	Acute	Acute		Chronic	Chronic		
exposur	e:	effect local	effect syste	mic	effect local	effect systemic		
Oral		-	-		-	-		
Inhalatio	n	-	-		-	-		
Dermal		-	-		-	-		
Critical p	hysical parar	meters: solubility, fla	mmability, corros	ivity:				
			Consu	imer				
Route of	f	Acute	Acute		Chronic	Chronic		
exposur	e:	effect local	effect syste	mic	effect local	effect systemic		
Oral		-	-		-	-		
Inhalatio	n	-	-		-	-		
Dermal		-	-		-	-		
PNEC								
Environn	nental protec	ction target	1	PNEC				
Fresh wa	ter		I	No inforr	nation available			
Freshwat	er sediment	5	1	No inforr	nation available			
Marine v	vater		1	No inforr	nation available			
Marine s	ediments		1	No information available				
Food cha	ain		1	No information available				
Microorg	janisms in se	wage treatment	1	No information available				
Soil (agri	cultural)		1	No information available				
Air			1	No information available				
8.2.	Exposure	controls						
8.2.1.	Appropria	te engineering cont	rols					
		/mixture related me during identified use	•	nt Use personal protective equipment. Do not eat, or smoke in the workspace.				
	Structural	measures to preven	t exposure:	No information available				
	Organisati	onal measures to pi	event exposure:		ization of work in or r's influence during v			
Technical measures for preventing exposu			iting exposure:	Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.				
8.2.2.	Personal p	protection equipmer	ıt					
8.2.2.1.	Eye and fa	ce protection:	Safety glasses 166).	s that stic	k to face (preventing	splashing) or visor (EN		
8.2.2.2.	Skin protection							



Page 6 of 15

Trading	name:		тс	DLUIDINE	BLUE, C.I. 52040		
Product	code:	TB-P-X**	Revis	ion date:	30 July 2019	Version:	3
	Hand pi	otection:	•	ective 89/68 oct: Gloves Glove t Break t ontact: Gloves Glove t	s to be used must con 36/EEC and the related material: Nitrile rubbe hickness: 0.11 mm hrough time:> 480 min material: Nitrile rubbe hickness: 0.11 mm hrough time:> 480 min	standard EN374 r n	fications
	Other sl	kin protection:	such as ru spillage r protectio	ubber boots isk use cloti n against lie	nces use cotton clothe s or shoes that cover the hes made of impermea quid chemicals (Viton, of the same material.	he entire foot. In c able material suital	ase of ole for
8.2.2.3.	Respirat	ory protection:		DIN 3181)	are generated. Recom for solid and liquid pa		
8.2.2.4.	Therma	hazards:	-				
8.2.3.	Environ	mental exposure con	trols				
		ance/mixture related measures to nt exposure:		See Section 6			
	Structur	tructural measures to prevent exposure:		: Use modern equipment.			
	Organis exposur	ational measures to p e:	prevent	Adapt the work process to the required working conditions of the workplace.			
	Technic exposur	al measures for preve e:	enting	See Section 6			

SECTIO	SECTION 9. Physical and chemical properties							
9.1.	Information on basic physical and chem	nical properties						
		Value	Method					
	Physical state:	powder	No information available					
	Colour:	dark green	No information available					
	Odour:	No information available	No information available					
	Odour threshold;	No information available	No information available					
	pH:	No information available	No information available					
	Melting point / freezing point;	No information available	No information available					
	Initial boiling point and boiling range:	No information available	No information available					
	Flashpoint:	No information available	No information available					
	Evaporation rate:	No information available	No information available					

Page 7 of 15

Trading name:		TOLUIDINE	BLUE, C.I. 52040		
Product code:	TB-P-X**	Revision date:	30 July 2019	Version:	3

	Flammability (solid, gas):	No information available	No information available
	Upper/lower flammability or explosive limits:	No information available	No information available
	Vapour pressure:	No information available	No information available
	Vapour density:	No information available	No information available
	Relative density:	No information available	No information available
	Bulk density:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	Viscosity:	No information available	No information available
	Explosive properties:	No information available	No information available
	Oxidising properties:	No information available	No information available
9.2.	Other information		
	-		

SECTIO	SECTION 10. Stability and reactivity					
10.1.	Reactivity:	No information available				
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:	Strong oxidizing agents				
10.4.	Conditions to avoid:	No information available				
10.5.	Incompatible materials:	No information available				
10.6.	Hazardous decomposition products:	No information available				

SECTION 11. Tox	SECTION 11. Toxicological information										
11.1. Information on toxicological effects											
Acute to	xicity:										
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀	Exposure period	Result						
Oral exposure:	No information available	No information available	No information available	No information available	-						
Skin contact:	No information available	No information available	No information available	No information available	-						
Inhaling:	No information available	No information available	No information available	No information available	-						

Trading name	•			T	OLUIDINE	BLUE, C.I. 5	2040			
Product code:	TI	B-P-X**		Revis	sion date:	30 July 20	19	Ver	sion:	3
Specif	ic targe	t organ toxici		e exposu				1		
		Specific	effects		-	Farget organ			Note	
Oral exposure:	No	information a	vailable		No inform	ation available	9	-		
Skin contact:					No inform	ation available	9	-		
Inhaling:	No	information a	vailable		No inform	ation available	e	-		
Aspira	tion ha	zard:		No in	formation a	available				
Irritati	on and	corrosion								
Initatio		Exposure	timo	Sn	ecies	Evaluation	Mc	thod	N	ote
Skin			rmation		formation	Evaluation		ormation		formation
corrosion/irrita	tion:	available	mation	availab		-	availab		availabl	
Serious eye damage/irritatio	on	No info available	rmation	No in availab	formation le	-	No info availab	ormation le	No int availabl	^f ormatior e
		•					:		1	
Sensiti	zation									
Skin contact:	N	o information	available	•						
Inhaling:	N	o information	available							
	:									
Sympt	oms re	lated to the p	hysical, cł	nemical	and toxicol	ogical characte	eristics			
Oral exposure:	N	o information	available	•						
Skin contact:	N	o information	available	•						
Inhaling:	N	o information	available	•						
Eye contact:	N	o information	available							
	1									
Repea	ted dos	se toxicity (sub	pacute, su	bchroni	c, chronic)					
		Dose	Exposure time	e	Species	Method	E٧	aluation	Note	
Subacute oral	No availa	information able	No informat available	tion	No informatio available	No informat available		o formation ⁄ailable	-	
Subacute dermal	No availa	information able	No informat available	tion	No informatio available	No informat available		o formation vailable	-	
Subacute inhaling toxicity	No availa	information able	No informat available	tion	No informatio available	No informat available		o formation ⁄ailable	-	
Subchronic oral	No availa	information able	No informat available	tion	No informatio available	No informat available		o formation vailable	-	

SAFETY DATA SHEET **BIOGNOST**[®] According to Regulation (EC) No. 1907/2006

Page 9 of 15 **TOLUIDINE BLUE, C.I. 52040** Trading name: Product code: TB-P-X** Revision date: 30 July 2019 Version: 3

Subchronic dermal toxicity	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	-
Chronic oral	No information available	No information available	No information available	No information available	No information available	-
Chronic dermal toxicity	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	-

Specific target orga	n toxicity – repeated exposur	e (STOT RE):	
	Specific effects	Target organ	Note
Subacute oral	No information available	No information available	-
Subacute dermal	No information available	No information available	-
Subacute inhaling toxicity	No information available	No information available	-
Subchronic oral	No information available	No information available	-
Subchronic dermal toxicity	No information available	No information available	-
Subchronic inhalation	No information available	No information available	-
Chronic oral	No information available	No information available	-
Chronic dermal toxicity	No information available	No information available	-
Chronic inhalation	No information available	No information available	-

CMR effects (carcinogenicity, mutagenicity, reproductive toxicity) Carcinogenicity: No information available 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 No information available properties: 11.2. Practical experiences:



Page 10 of 15

Tradin	ng name:		TOLUIE	INE BLUE, C.I. 52040				
Produ	Product code: TB-P-X**		Revision da	Revision date: 30 July 2019				
	Remarks	relevant for classificatic	on: No	o information available				
	Other remarks:		Να	information available				
11.3.	General r	iotes:						
	-							

SECTION 12. E	cologi	cal informa	tion						
12.1. Toxici	ty								
Acute (short-te toxicity	erm)	Dose	Exposu period	Shecies	Metho	bd	Evaluation	Nc	ote
Fish		LC ₅₀	96 hours	No s information available	No informa availat		No information available	-	
Crustacea:		EC ₅₀	48 hours	No s information available	No informa availat		No information available	-	
Algae/aquatic ı	plants	IC ₅₀	72 hours	No information available	No informa availat		No information available	-	
Microorganism	IS	-	-	-	-	-	-	-	
Chronic (long-t toxicity	term)	Dose	Exposu period	Nnacias	Metho	bd	Evaluation	Nc	ote
Fish		LC ₅₀	96 hours	No s information available	No informa availat		No information available	-	
Crustacea:		EC ₅₀	48 hours	No s information available	No informa availat		No information available	-	
Algae/aquatic plants		IC ₅₀	72 hours	No s information available	No informa availat		No information available	-	
Microorganism	IS	-	-	-	-	-	•	-	
12.2. Persist	tonco o	nd degradat	sility						
	c degra		Jiiity						
ADIOLI	_	radation hal	f-lives	Method			Evaluation		Note
		ormation av		No information av	ailable	No information available			
Fresh water		ormation av		No information av		No information available			
Air		ormation av		No information av		No information available			
Soil		ormation av		No information av		No info	rmation availat	ole -	

BIOGNOST[®] According to Regulation (EC) No. 1907/2006

Page 11 of 15

			1										uge II of I	5
Tradin	g nan	ne:						TOLUIDINE	BLU	E, C.I. 52	040			
Produc	ct coc	le:	TB-P-	TB-P-X**				vision date:	30	July 2019	9	Version: 3		3
	Bioc	leara	dation											
% Deg				īme (c	lave)			Method		Evaluatio	n		Note	
			I	inte (c	iays)								Note	
No info availab		on	No info	rmatio	n ava	ilable	NO I avail	nformation		informatio Iable	'n	-		
avallaD	ie						avali	able	avai	lable				
12.3.	Bioa	iccum	ulative p	otent	ial									
	Part	ition	coefficie	nt: n-c	octano	l/wate	er (log	Kow):						
Valu	-		oncentrat		pl		°C	Method		Eval	uation		Note	
			ncentia	lion	pi	•	C	Methou		Lvan			NOLE	
No informa	atio		nformati	ion	_		_	No informat	on	No infor	mation	Nc	information	
n availa		avai	lable		_		-	available av		available		available		
	Bioc	once	ntration	factor	(BCF)							:		
٧	/alue			Spec	ies			Method		Evaluat	tion		Note	
No info	ormati	on	No inf	No information		No information		No information		No i	nformation			
availab	le		available		available		available		avail	lable				
	Char													
	Chro	onic e	cotoxicit	су				Î			1			
	Va	lue		Do	ose	•	osure	Species		Method	Evalua	tion	Note	
							riod	•						
						No		No		10	No			
Chronic	c toxic	ity or	n fish	LC ₅₀		infor	mati	information		nformati	informa	tion	-	
						on avail	ahle	available		on vailable	availabl	e		
						No	abie			10				
Chronic	r toxic	ity or	'n			infor	mati	No		nformati	No			
Chronic toxicity o crustacea (Daphn		-		EC ₅₀		on	mati	information	on				-	
-		•				avail	able	available		vailable	availabl	e		
								:	1		:		:	
12.4.	Mot	oility i	n soil											
±2.1.				ad dict	ributi	on in i	nuiror	nmental comp	artma	onte:				
			•			5111116		тепа сотр		51115.				
			nation av	allabl	е									
	Surface tension:													

				Page 12 of 2	15
Trading name:		TOLUIDINE E	BLUE, C.I. 52040		
Product code:	TB-P-X**	Revision date:	30 July 2019	Version:	3

	Value	°C	Concentration	n Method		Note	
	No informatio available	No information available	No informatior available	n No information _ available _			
	Adsorptio	n / desorption					
Transpo	ort	A/D coefficient enry's constant	log Kow	Evaporation rate	Method	Note	
Soil-wa	Soil-water No information available		No information available	No information available	No information available	-	
Water-a	air No avail	information able	No information available	No information available	No information available	-	
Soil-air	No avail	information able	No information available	No information available	No information available	-	
	1						
12.5.	Results of	PBT and vPvB asses	ssment				
	No inform	ation available					
12.6.	Other adv	erse effects					
		ation available					

SECTION	SECTION 13. Disposal considerations					
13.1.	Waste treatment methods					
13.1.1.	Product/Packaging disposal:					
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.					
13.1.2.	Waste codes/waste designations according to Law:					
	No information available					
13.1.3.	Waste treatment – relevant information:					
	No information available					
13.1.4.	Sewage disposal – relevant information:					
	Waste must not be disposed of into the sewage system.					



Page 13 of 15 Trading name: **TOLUIDINE BLUE, C.I. 52040** Product code: TB-P-X** Revision date: 3 30 July 2019 Version:

13.1.5.	Other disposal recommendations:
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.
13.1.6.	Relevant Community provisions:
	-

SECTION 14. Transport information	
Transporting/shipment by road (ADR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazard(s):	-
Special precautions for user:	-
Transporting/shipment by rail (RI	D)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazard(s):	-
Special precautions for user:	-
Inland waterway transport (ADN)	
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazard(s):	-
Special precautions for user:	-
Transporting/shipment by sea (IN	/IDG)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazard(s):	-
Special precautions for user:	-
Transport in bulk according to Annex II	-

Page 14 of 15 Trading name: **TOLUIDINE BLUE, C.I. 52040** Product code: TB-P-X** Revision date: Version: 3 30 July 2019

of MARPOL 73/78 and the IBC code:	
Transporting/shipment by air	(ICAO-TI/IATA-DGR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazard(s):	-
Special precautions for user:	-
Further information: -	

15.1.	Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture				
	EU regulations					
	Authorization and/or rest	rictions of use				
	Authorizations:	-				
	Restrictions:	-				
	Other EU regulations:	 EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives 				
	Information according 19 guideline)	99/13/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, Transport of Hazardous Substances Act				
15.2.	Chemical safety assessme	ent				
	None					

Page 15 of 15

Trading name:		TOLUIDINE E	BLUE, C.I. 52040		
Product code:	TB-P-X**	Revision date:	30 July 2019	Version:	3

SECTIC	N 16. Other information				
16.1.	Indication of changes:	-			
		PBT	Stable, bioaccumulative and toxic		
		vPvB	Strongly stable and strongly bioaccumulative.		
16.2.	Abbreviations and acronyms:	LD ₅₀	Lethal dose, 50%		
		LC ₅₀	Lethal concentration, 50%		
		STOT-SE	Specific target organ toxicity - single exposure		
16.3.	Key literature references and	-			
	source of data:				
16.4.	Relevant H statements (numbe	r and full text)			
	H: -	-			
16.5.	Training advice:	-			
		** "X" in the product code marks different volumes (different packagings of the product)			
16.6.	Further information:	We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.			

ſ	ANNEX:
	Exposure scenario resulting to Chemical safety assessment
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