

Page 1 of 16

Trading name:	PHLOXINE B, C.I. 45410					
Product code:	PB-P-X**	Revision date:	21 Dec 2022	Version: 4		

1.1.	Product identifier			
	Substance name:	PHLO	XINE B, C.I.	45410
	EC No:	242-3	355-6	
	Synonyms:	Acid	Red 92, Eos	in 10B, Eosin Blue
	Catalogue number:	PB-P-	-X**	
	REACH registration number:	-		
	CAS No:	18472	2-87-2	
	Index no.:	-		
1.2.	Relevant identified uses of the	subst	ance or mix	cture and uses advised against
	Uses:			lene Blue-Phloxine staining and staining keratin and cording to Kreyberg.
	Uses advised against:		Only the id	dentified uses are advised.
	Reason why uses advised agai	The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purpos		
1.3.	Details of the supplier of the s	afety o	data sheet	
	Supplier:	Bio	oGnost Ltd.	
	Address:	М	edjugorska	59, Zagreb
	Telephone number:	+3	385 1 24099	997
	Fax no.:	+3	385 1 24040	039
	e-mail of competent person:	<u>m</u> :	sds@biogn	<u>ost.hr</u>
	National contact:	-		
1.4.	Emergency telephone number	r		
	National Protection and Rescu	ıe Dire	ctorate:	112
	Medical information:			+385 1 2348 342
	Other information:			-

SECTIO	ECTION 2. Hazards information					
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 statements*:				
	STOT RE 2	H373				
	Aquatic Chronic 3	H412				
2.1.2.	Additional information					
	-					



Page 2 of 16

Trading name:	PHLOXINE B, C.I. 45410				
Product code:	PB-P-X**	Revision date:	21 Dec 2022	Version:	4

2.2.	Label elements	Label elements		
	Product identification:	Phloxine B, C.I. 45410		
	Identification number:	-		
	Authorization no.:	-		
	Hazard pictograms:	GHS08		
	Signal word:	Warning		
	Hazard statements:	H373 May cause damage to organs through prolonged or repeated exposure. H412 Harmful to aquatic life with long-lasting effects.		
	Precautionary statements:	P273 Avoid release to the environment. P280 Wear protective gloves/ eye protection/ face protection. P501 Dispose of contents/container in accordance with local regulations.		
	Supplemetal hazard information (EU):	-		
2.3.	Other hazards			

SECTION 3. Co	SECTION 3. Composition/information on ingredients						
CAS No	EC No:	Index no.	Identification name	Weight % content (or range)			
18472-87-2	242-355-6	-	3,4,5,6-tetrachloro-2-(1,4,5,8-tetrabromo-6-hydroxy-3-oxoxanthen-9-yl)benzoic acid	90-100%			

SECTI	SECTION 4. First aid measures					
4.1.	Description of first aid measu	res				
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.				
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to-mouth) and contact a physician.				
	Following skin contact:	Remove contaminated clothing. Immediately wash with copious amounts of water for at least 15 minutes. Seek medical assistance if the symptoms of irritation remain.				



Page 3 of 16

Trading name:	PHLOXINE B, C.I. 45410					
Product code:	PB-P-X**	Revision date:	21 Dec 2022	Version: 4		

	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. Seek medical attention in case of irritation or other symptoms.		
	Self-protection of the first aider:	-		
4.2.	Most important symptoms and effects, both acute and delayed			
	Following inhalation:	May cause irritation. Prolonged and/or repeated contact may cause irritation.		
	Following skin contact:	May cause skin irritation. Prolonged and/or repeated contact may cause irritation and/or dermatitis.		
	Following eye contact:	May cause eye irritation. May cause chemical conjunctivitis.		
	Following ingestion:	May cause irritation. Prolonged and/or repeated contact may cause irritation.		
4.3.	Indication of any immediate medi	cal attention and special treatment needed		
	-			

SECTIO	ON 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	In case of fire use water spray to cool fire expose containers. Use water, dry chemical, chemical foam, or alcohol-resistant foam, or appropriate foam. Use agent most appropriate to extinguish fire.			
	Unsuitable extinguishing media:	-			
5.2.	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	-			
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 extin	nguishing fire does not contaminate surface water or groundwater.			

SECTIO	SECTION 6. Accidental release measures				
6.1.	Personal precautions, protective equ	uipment and emergency procedures			
6.1.1.	For non-emergency personnel				
	Protective equipment: Use personal protective equipment (see Section 8).				
	Accident prevention methods:	Avoid inhaling dust. Avoid contact with the substance. Secure proper ventilation.			
	Emergency procedures:	Leave the hazardous area, pay attention to emergency procedures, consult with expert.			



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

Page 4 of 16

Trading name:	PHLOXINE B, C.I. 45410					
Product code:	PB-P-X**	Revision date:	21 Dec 2022	Version:	4	

6.1.2.	For emergency respor	nders:		
	-	-		
6.2.	Environmental precau	tions:		
	Do not dispose of in s	ewage, drainage system or waterways.		
6.3.	Methods and material	for containment and cleaning up		
6.3.1.	For creating barriers, covering and sealing:	covering and attention to the possible material restrictions (see Sections 7 and 10). Collect in		
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 involved materials with water.		
6.3.3.	Other information:	-		
6.4.	Reference to other sec	Reference to other sections		
	For indications of was	te processing see Section 13.		

SECTIO	ON 7. Handling and storage			
7.1.	Precautions for safe handling			
7.1.1.	Protection measures			
	Measures to prevent fire:		-	
	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. Th	vash hands after work and before eating.		
7.2.	Conditions for safe storage, including any incompatibilities			
	Technical measures and storage conditions:	mist or	ze dust formation. Avoid inhaling vapor, dust, gas. Avoid contact with skin, eyes and clothes. I tightly closed container. Avoid swallowing and ng.	
	Packaging materials:	Manufa	acturer's original packaging.	
	·		ontainer tightly closed. Keep in cool, dry and ntilated space, away from incompatible nces.	
	Advices for storage equipment:	must b	orage must be made of hard material; floors e resistant to chemicals. There must be no nat directly leads into sewage system. Secure	



Page 5 of 16

Trading name:	PHLOXINE B, C.I. 45410				
Product code:	PB-P-X**	Revision date:	21 Dec 2022	Version: 4	

		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 par	ameters							
Substance				lim	Occupational exposure limit values/short term values		Biological limit values	
				F	opm	mg/m³		
-		-			-	-		-
Substance - name:								
EC No: -		CAS No:	-					
DNEL								
				Indu	ıstrial			
Route of exposure:		Acute effect local e		Acute effect systemic		Chronic effect local		Chronic effect systemic
Oral	-	- effect sys		et sys.	· ·	-		-
Inhalation	-	-			-		-	
Dermal	-		-			-		-
Critical physical para	meters: sol	ubility, flam	nmability	, corro	osivity:			
		-		Cons	sumer	i		
Route of exposure:		cute t local	Acute effect syster			Chron effect lo		Chronic effect systemic
Oral	-		-			-		-
Inhalation	-		-			-		-
Dermal	-	-			-			-
PNEC								
Environmental protection target				PNEC				
Fresh water					No information available			
Freshwater sedimen	ts				No information available			
Marine water					No information available			
Marine sediments					No information available			



Page 6 of 16

Trading name:		PHLOXIN	NE B, C.I. 45410	_
Product code:	PB-P-X**	Revision date:	21 Dec 2022	Version: 4

Food cha	ain		N	o information available	
Microorg	ganisms in sewage treatment		N	o information available	
Soil (agri	icultural)		No information available		
Air			N	o information available	
8.2.	Exposure controls				
8.2.1.	Appropriate engineering co	ontrols			
	Substance/mixture related prevent exposure during id			Use personal protective equipment. Do not eat, drink or smoke in the workspace.	
	Structural measures to prev	vent exposure:		No information available	
	Organisational measures to	prevent exposu	ıre:	Organization of work in order to reduce other worker's influence during work process.	
	Technical measures to prevent		oposure: Use with appropriate ventilation.		
8.2.2.	Personal protection equipm	nent			
8.2.2.1.	Eye and face protection:	Safety glasses	that s	at stick to face (preventing splashing) or visor.	
8.2.2.2.	Skin protection				
	Hand protection:		_	nto thorough contact, use butyl rubber gloves (0.4 mm ntact with drops, use polychlorene gloves (0.1 mm	
	Other skin protection:	rubber boots use clothing n	or sho nade o	ork use cotton clothing and suitable footwear, such as sees that cover the entire foot. In case of spilling hazard, of impermeable material suitable for protection from ton, PVC, himex) and footwear made from the same	
8.2.2.3.	Respiratory protection:	If the concent equipped with		level exceeds the GVI values, use full gas mask on filter A.	
8.2.2.4.	Thermal hazards:	-			
8.2.3.	Environmental exposure co	ntrols			
	Substance/mixture related measures to prevent expos	ure: See Secti	on 6		
	Structural measures to prevent exposure:		ern eo	quipment.	
	Organisational measures to prevent exposure:	Adapt the		c process to the required working conditions of the	
	Technical measures to prevexposure:	ent See Section	See Section 6		

SECTION 9. Physical and chemical properties



Page 7 of 16

Trading name:		PHLOXIN	IE B, C.I. 45410	-
Product code:	PB-P-X**	Revision date:	21 Dec 2022	Version: 4

	Value	Method
Physical state:	powder	No information available
Color:	bright red-brown	No information available
Odor:	No information available	No information available
Odour/odour threshold:	No information available	No information available
Melting point / freezing point:	No information available	No information available
Boiling point or initial boiling point and boiling range:	No information available	No information available
Flammability:	No information available	No information available
Lover and upper explosion limit:	No information available	No information available
Flash point:	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
pH:	No information available	No information available
Kinematic viscosity:	No information available	No information available
Solubility:	No information available	No information available
Partition coefficient n- octanol/water (log value):	No information available	No information available
Vapour pressure:	No information available	No information available
Density and/or relative density:	No information available	No information available
Relative vapour density:	No information available	No information available
Particle characteristics:	No information available	No information available

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:	No information available		
10.4.	Conditions to avoid:	Incompatible material, excess heat, dust generation, high		



Page 8 of 16

Trading name:	PHLOXINE B, C.I. 45410				
Product code:	PB-P-X**	Revision date:	21 Dec 2022	Version:	4

		temperatures.
10.5.	Incompatible materials:	Strong oxidizers.
10.6.	Hazardous decomposition products:	Carbon monoxide, carbon dioxide, oxides of nitrogen.

11.1. Information	n on toxicological e	ffects						
Acute toxi	city:							
Route of exposure:	Method	Speci	es	Do LD ₅₀ ,		Exposu	re time	Results
Oral exposure:	No information available	Rat	Rat LD_{50} No information available			275 mg/kg		
Dermal exposure:	No information available	No infor	intormation				-	
Inhalation exposure:	No information available	No infor	rmation	No informa availab		No info	ormation	-
Specific ta	rget organ toxicity -	· single expo	sure (ST	OT SE):				
į !	Specific effects				Targ	et organ		Note
Oral exposure:	No information available				No ir	No information -		
Dermal exposure:	No information av	No information available				No information - available		
Inhalation exposure:	No information av	ailable			No information - available			
Aspiration	hazard:	No	informat	ion avail	ahle			
Aspirution	Tidzara.	140	IIIIOIIIIac	ion avan	шыс			
Irritation a	and corrosion							
:	Exposure t	time	Species	: E	valuati	on N	/lethod	Note
Skin corrosion/irritation	No info	rormation No information available				No information available		No information available
Serious eye damage/irritation	No info available		o formatio vailable	n -	No		No information available	



Page 9 of 16

Trading name:	PHLOXINE B, C.I. 45410					
Product code:	PB-P-X**	Revision date:	21 Dec 2022	Version: 4		

Dermal exposu		nation available				
Inhalation expo	sure: No inform	nation available				
Sympt	oms related to the	physical, chemic	al and toxicologi	cal characteristic	CS	
Oral exposure:	!	f swallowed.				
Dermal exposu	re: Harmful	by inhalation and	d in contact with	skin.		
Inhalation expo	sure: Harmful	f swallowed.				
Eye exposure:	Risk of se	erious damage to	eyes.			
	i					
Repea	ted dose toxicity (si	ubacute, subchro	onic, chronic)			
	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No information available	No information available	-
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-
Subchronic oral	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	-
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	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	_



Page 10 of 16

Trading name:	PHLOXINE B, C.I. 45410					
Product code:	PB-P-X**	Revision date:	21 Dec 2022	Version: 4		

	Specific effects		Target organ	Note	
Subacute oral	No inform	ation available	No information available	-	
Subacute dermal	No inform	ation available	No information available	-	
Subacute inhalatic	n No inform	ation available	No information available	-	
Subchronic oral	No inform	ation available	No information available	-	
Subchronic derma	l No inform	ation available	No information available	-	
Subchronic inhala	tion No inform	ation available	No information available	-	
Chronic oral	No inform	ation available	No information available	-	
Chronic dermal	No inform	ation available	No information available	-	
Chronic inhalation	No inform	ation available	No information available	-	
CMR effe	CMR effects (carcinogenicity, mutagenicity, reproductive toxicity) cinogenicity: No information available				
Mutagenicity <i>in-vi</i>	tro:	No inforr	mation available		
Genotoxicity:		No inforr	mation available		
Mutagenicity <i>in-vi</i>	vo:	No inforr	mation available		
Germ cell mutage	nicity:	No inforr	mation available		
Reproductive toxic	city:	No inforr	mation available		
Summary propertie	of evaluation s:	of the CMR	No information available		
11.2. Informati	on on other haza	rds:			
11.2.1. Endocrine	Endocrine disrupting properties:				
compone disrupting 57(f) or 2017/210	ubstance/mixture ents considered g properties acc Commission De 0 or Commission of 0.1% or higher.	ording to REAC elegated regular Regulation (EU)	tion (EU)		
	ormations:				

SECTION 12. Ecological information						
12.1. Toxicity						
Acute (short-term)	Dose	Exposure	Species	Method	Evaluation	Note



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

Page 11 of 16

Trading name:	PHLOXINE B, C.I. 45410					
Product code:	PB-P-X**	Revision date:	21 Dec 2022	Version:	4	

toxicity		time				
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-

12.2. Persistence and degrad	lability
------------------------------	----------

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	-

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



Page 12 of 16

Trading name:	PHLOXINE B, C.I. 45410				
Product code:	PB-P-X**	Revision date:	21 Dec 2022	Version:	4

12.3.	Bioaccum	ulative p	otential									
	Partition o	coefficie	nt: n-octan	ol/wate	er (log K	ow):						
Valu	ie Co	oncentra	ntion p	Н	°C Method			Evaluation		Note		
	No information available		ation -		· - ·		o information No information available				information lable	
	Bioconcer	ntration	factor (BCF)									
V	alue		Species		ľ	Method			Evaluatio	n		Note
No infor		No inf availat	ormation ole		No info	ormatio ole	n		o informatio ailable	n	No in availa	formation ble
***************************************	Chronic e	cotoxicit	T.Y		•							
	Value Dose		-	Exposure time		Spe	ecies		Method	Evalua	ation	Note
Chronic	nronic toxicity on fish LC ₅₀		LC ₅₀	No information available		No infori availa	mation able		lo nformation vailable	No inform availab		-
	toxicity on ea (Daphnia		EC ₅₀		rmation lable	No infori availa	mation able	in	lo nformation vailable	No inform availab		-
						i						i
12.4.	Mobility in	n soil										
	Known or	predicte	ed distribut	ion in	environr	mental c	ompart	me	nts:			
	No inform	nation av	/ailable									
	Surface te	ension:										
	Value		°C	С	oncentra	ation	1	Met	thod			Note
	No informatio available		ormation ailable		informa ailable	ation	No info		nation	_		
	Adsorptio	n / desc	orption									



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

Page 13 of 16

Trading name:	PHLOXINE B, C.I. 45410				
Product code:	PB-P-X**	Revision date:	21 Dec 2022	Version: 4	

Transpo	A/D coefficient port Henry's constant		log Kow	Evaporation rate	Method	Note		
Soil-wa	ter No available	information	No information available	No information available	No information available	-		
Water-a	air No available	information	No information available	No information available	No information available	-		
Soil-air	No available	information	No information available	No information available	No information available	-		
12.5.	Results of PBT and vPvB assessment No information available							
12.6.	Endocrine disru	upting propert	ies					
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.							
	Í							
12.7.	Other adverse	effects						
	No information	n available						

SECTION	l 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.
13.1.5.	Other disposal recommendations:



Page 14 of 16

Trading name:	PHLOXINE B, C.I. 45410				
Product code:	PB-P-X**	Revision date:	21 Dec 2022	Version:	4

	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 INFORMATIO	JN
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 (R	ID)
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 inland	waterways (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	MDG)
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 15 of 16

Trading name:	PHLOXINE B, C.I. 45410				
Product code:	PB-P-X**	Revision date:	21 Dec 2022	Version:	4

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 environmental regulations/legislation specific for the substance or mixture				
	EU regulations				
	Authorization and/or restrictions of use				
	Authorizations:	-			
	Restrictions:	-			
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);			
	Information according 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			



Page 16 of 16

Trading name:	PHLOXINE B, C.I. 45410				
Product code:	PB-P-X**	Revision date:	21 Dec 2022	Version: 4	

15.2.	Chemical safety assessment
	None

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:	-				
16.4.	Relevant H statements (number and full text)					
	H: 373 412	May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long-lasting effects.				
16.5.	Training advice:	-				
16.6.	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.				

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EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT