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Trading name:	RHODAMINE B, C.I. 45170					
Product code:	RHB-P-X**	Revision date:	31 October 2025	Version:	5	

1.1.	Product identifier				
	Substance name:	RHO	DAMINE B, (C.I. 45170	
	EC No:	201-383-9			
	Synonyms:	Basic Violet, Acid Red 52			
	Catalogue number:	RHB-	P-X**		
	REACH registration number:	-			
	CAS No:	81-88	8-9		
	Index no.:	-			
1.2.	Relevant identified uses of the	Relevant identified uses of the substance or mixture and uses advised against			
	Uses:	For staining acid-fast bacteria.			
	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 Production Medical Devices and there is no reason to use it for other purposes.			
1.3.	Details of the supplier of the sa	afety (data sheet		
	Supplier:	Bi	oGnost Ltd.		
	Address:	М	edjugorska	59, Zagreb	
	Telephone number:	+3	+385 1 2409997		
	Fax no.:	+3	+385 1 2404039		
	e-mail of competent person:	<u>m</u>	sds@biogno	<u>ost.hr</u>	
	National contact:	-			
1.4.	Emergency telephone number	Emergency telephone number			
	National Protection and Rescu	e Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	ON 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*:				
	Acute Tox. 4	H302				
	Eye Dam. 1	H318				
	Aquatic Chronic 3	H412				
2.1.2.	Additional information					
	-					



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2.2.	Label elements				
	Product identification:	RHODAMINE B, C.I. 45170			
	Identification number:	-			
	Authorization no.:	-			
	Hazard pictograms:	GHS05 GHS07			
	Signal word:	Warning			
	Hazard statements:	H302 Harmful if swallowed.H318 Causes serious eye damageH412 Harmful to aquatic life with long lasting effects.			
	Precautionary statements:	P273 Avoid release to the environment. P280 Wear protective gloves/ eye protection/ face protection. P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+313: IF exposed or concerned: Get medical advice/attention. P501 Dispose of contents/container in accordance with local regulations.			
	Supplemetal hazard information (EU):	-			
2.3.	Other hazards	Other hazards			
	Endocrine Disrupting Properties	•			
	No known endocrine disrupting pr	operties nent : According to the results of its assessment, this substance is not a			

SECTION 3. C	SECTION 3. Composition/information on ingredients							
CAS No	EC No:	Index no.	Identification name	Weight % content (or range)				
81-88-9	201-383-9	_	9-(2-carboxyphenyl)-3,6- bis(diethylamino)xanthylium chloride	90-100				

SECTION 4. First aid measures		
4.1.	Description of first aid measures	



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	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.
	Following inhalation:	Move to fresh air. Consult a physician.
	Following skin contact:	Rinse with plenty of soap & water and seek medical advice.
	Following eye contact:	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	Following ingestion:	Do not induce vomiting without medical advice. Rinse with water. Consult physician.
	Self-protection of the first aider:	-
4.2.	Most important symptoms and eff	fects, both acute and delayed
	Following inhalation:	Harmful by inhalation.
	Following 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 media	cal attention and special treatment needed
	-	

SECTION	ION 5. Firefighting measures					
5.1.	Extinguishing media					
	Suitable extinguishing media: wa	case of fire use water spray to cool fire expose containers. Use ater, dry chemical, chemical foam, or alcohol-resistant foam, or opropriate foam. Use agent most appropriate to extinguish fire.				
	Unsuitable extinguishing media: N	o information available				
5.2.	Special hazards arising from the subst	Special hazards arising from the substance or mixture				
	Hazardous combustion products: Carbon, nitrogen, sulfur, sodium oxides.					
5.3.	Advice for firefighters	Advice for firefighters				
	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved or equivalent, and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Dust can be an explosion hazard when exposed to heat or flame.					
5.4.	Additional information	Additional information				
	Remove sources of heat and ignition.	Do not contaminate the 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					
	Protective equipment:	Use personal protective equipment (see Section 8).				
	Accident prevention methods:	Avoid inhaling dust. Avoid contact with the substance. Secure proper ventilation.				



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	Emergency procedure	s.	Mark the area using proper signs.		
612			Thank the area asing proper signs.		
6.1.2.	For emergency respor	iders.			
	Use protective equipm (see Section 8).	nent; in case of in	adequate ventilation use adequate airways protective equipment		
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:	Cap the drains. Collect, bundle and pump out everything that got spilled. Pay attention to the possible material restrictions (see Sections 7 and 10). Collect in dry form.			
6.3.2.	Cleaning up:	Vacuum or sweep, then store in a tightly closed container. Prevent formation of dust. Ventilate the room			
6.3.3.	Other information: -				
6.4.	Reference to other sections				
	For indications of was	te processing see	Section 13.		

SECTIO	SECTION 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 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	npatibilities				
	Technical measures and storage conditions:	mist or	ze dust formation. Avoid inhaling vapor, dust, gas. Avoid contact with skin, eyes and clothes. It tightly closed container. Avoid swallowing and lang.			
	Packaging materials:	Manufa	acturer's original packaging.			
	Requirements for storage rooms and vessels:	well-ve	Keep container tightly closed. Keep in cool, dry and well-ventilated space, away from incompatible substances.			
	Advices for storage equipment:	must b	orage must be made of hard material; floors e resistant to chemicals. There must be no drain rectly leads into sewage system. Secure proper tion.			



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	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 para	meters		-					
Substance		CAS No		Occupational exposure imit values/short term values		Biological limit values		
_		_		ŀ	opm -	mg/m³ -		_
					_			-
Substance name:								
EC No: -		CAS No:	-					
DNEL								
				Indu	ustrial			
Route of		cute		Acute		Chron		Chronic
exposure:	effec	t local	effe	ct sys	temic	effect lo	cal	effect systemic
Oral	-	-				-		-
Inhalation	-	-				-		-
Dermal	-	-				-		-
Critical physical parar	meters: sol	ubility, flam	mability	, corre	osivity:			
				Con	sumer	I		
Route of exposure:		tute t local	Acute effect syst			Chron effect lo		Chronic effect systemic
Oral	-		-		-		-	
Inhalation	-		-			-		-
Dermal	-		-			-		-
PNEC								
Environmental protection target					PNEC			
Fresh water					No information available			
Freshwater sediments					No information available			
Marine water					No information available			
Marine sediments					No information available			
Food chain					No infor	mation availab	ole	



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Microorganisms in sewage treatment			No information available		
Soil (agri	cultural)		No information available		
Air			No information available		
8.2.	Exposure controls				
8.2.1.	Appropriate engineering co	ontrols			
	Substance/mixture related in prevent exposure during ide		Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to prev	ent exposure:	No information available		
	Organisational measures to	prevent exposur	e: Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prev	vent exposure: Use with appropriate ventilation.			
8.2.2.	Personal protection equipment				
8.2.2.1.	Eye and face protection:	Safety glasses t	hat stick to face (preventing splashing) or visor.		
8.2.2.2.	Skin protection	·p			
	Hand protection:	Nitrile rubber p	rotective gloves, 0.11 mm thick		
	Other skin protection:	Cotton clothing	and adequate closed footwear.		
8.2.2.3.	Respiratory protection:		or half mask equipped with "A" filter used when evels exceed GVI.		
8.2.2.4.	Thermal hazards:	–			
8.2.3.	Environmental exposure co	ntrols			
	Substance/mixture related measures to prevent expose	ure: See Sectio	n 6		
	Structural measures to prevexposure:	rent Use mode	n equipment.		
	Organisational measures to prevent exposure:	•	Adapt the work process to the required working conditions of the workplace.		
	Technical measures to preverse exposure:	ent See Sectio	See Section 6		

SECTI	SECTION 9. Physical and chemical properties					
9.1.	Information on basic physical and chemical properties					
	Value Method					
	Physical state:	solid (crystals)	No information available			
	Color:	green to violet	No information available			
	Odour/odour threshold:	No information available	No information available			
	Melting point/freezing point:	210-211°C	No information available			



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	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:	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
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:	No information available.			
10.4.	Conditions to avoid:	Incompatible material, excess heat, dust generation, high temperatures.			
10.5.	Incompatible materials:	Strong oxidizing agents, strong reducing agents.			
10.6.	Hazardous decomposition products:	No information available			

SECTIO	SECTION 11. Toxicological information							
11.1.	Information on toxicological effects							
	Acute toxicity:							
Route of exposure		Method	Species	Dose LD ₅₀ /LC ₅₀	Exposure time	Results		
Oral exposure:		No information available	Mouse	LD ₅₀	No information available	887 mg/kg		



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Dermal exposure:		No information available No informa			i availahla		-	
Inhalation exposure:	No information available	No ii availabl	nformation le	No inforn availa		No infor available	mation	-
Specific ta	rget organ toxicity -	- single e	xposure (ST	OT SE):				
	Sp	ecific effe	ects		Targe	t organ		Note
Oral exposure:	No information av	ailable			No in	formation e	-	
Dermal exposure:	No information av	o information available No informat available						
Inhalation exposure: No information available					No information available			
Irritation a	and corrosion		***					
	Exposure	time	Species		Evaluatio	n Me	ethod	Note
Skin corrosion/irritation		rmation	No informatio available	n -		No inforr availa	mation Ible	No information available
Serious eye damage/irritation	No info available	rmation	No informatio available	n -		No inforr availa	nation Ible	No information available
Sensitizati	on							
Dermal exposure:	No information	on availal	ole					
Inhalation exposure	e: No information	on availak	ole					
Symptom	s related to the phys	ical, cher	mical and to	xicoloa	ical chara	cteristics		
Oral exposure:	Harmful if sw							
Dermal exposure:	Harmful by in		and in conta	act with	skin.			

Risk of serious damage to eyes.

Repeated dose toxicity (subacute, subchronic, chronic)

Eye exposure:



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	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	-

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



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Chronic	ic inhalation No information available No information available -							
	CMR effects	(carcinogenicity, mutagenic	city, reproductive toxicity)					
Carcino	genicity:	No in	formation available					
Mutage	enicity <i>in-vitro</i> :	No in	formation available					
Genoto	xicity:	No in	formation available					
Mutage	enicity <i>in-vivo</i> :	No in	formation available					
Germ c	ell mutagenicit	ry: No in	formation available					
Reprod	uctive toxicity:	No in	formation available					
11.2.	Information	on other hazards:						
11.2.1.		srupting properties:						
	components disrupting p Article 57(f regulation (nce/mixture does not considered to have endoroperties according to long or Commission Delector 2017/2100 or CommEU) 2018/605 at levels of 0	docrine REACH egated nission					
11.2.2.	Other inform	ation:						
	-							

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	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	-	-	-	-	-	-					



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Chronic (long- toxicity	-term)	Dose	Exposure time	e Species	Method	Evaluation	n Note
Fish		LC ₅₀	96 hours	No information available	No information available	No informatio available	
Crustacea:		EC ₅₀	48 hours	No information available	No information available	No informatio available	
Algae/aquatic	plants	IC ₅₀	72 hours	No information available	No information available	No informatio available	
Other organisms		-	-	_	-	_	
		and degradak	oility				
1	Deg	radation half	-lives	Method		Evaluation	Note
Marine water	No in	formation av	ailable N	o information availa	able No info	No information available	
Fresh water	No in	formation av	ailable N	o information availa	able No info	le No information available	
Air	No in	formation av	ailable N	o information availa	nformation available No information available		ole -
Soil	No in	formation av	ailable N	o information availa	able No info	rmation availab	ole -
Biode	egradat	ion			1	1	
% Degradation	n	Time (da	ıys)	Method	Evalua	tion	Note

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

12.3. Bioad	ccumulative potenti	al									
Parti	Partition coefficient: n-octanol/water (log Kow):										
Value	Concentration	рН	°C	Method	Evaluation	Note					
No information available	No information available	-	-	No information available	No information available	No information available					

Bioconcentration factor (BCF)



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	Value Species		Method			Evaluation Io information vailable		Note No information available	
		No information available	No inforn available						
CI	hronic eco	toxicity							
,	Value	Dose	Exposure time	Species	Metl	hod	Evalua	tion	Note
Chronic to	xicity on fi	sh LC ₅₀	information i	No nformation available	No inform availab		No informa availabl		-
Chronic to crustacea (-	EC ₅₀	information i	No nformation available	No inform availab		No informa availabl		-
12.4. M	1obility in s	oil							
14.4.	100111ty III S	011							
	•		ion in environme	ntal compart	ments:				
Kı	nown or pr		ion in environme	ntal compart	ments:				
Kı N	nown or pr	redicted distribut ion available	ion in environmer	ntal compart	ments:				
Kı N	nown or pr lo informat	redicted distribut ion available	ion in environmer		ments:				Note
Kı N Sı N in	nown or proposition informate urface tense Value	redicted distribut ion available ion:		on I	Method ormatior	1	-		Note
Kı N Sı N in	nown or properties of the prop	redicted distribut ion available ion: °C No information	Concentration No information	on I	Method ormatior	1	-		Note
N Su N in av	nown or properties of the prop	redicted distribut ion available ion: °C No information	Concentration No information	on I	Method ormatior	1	-		Note
N Su	nown or properties of the control of	redicted distribution available ion: °C No information available	Concentration No information	on I	Method ormation ble		- Method		Note
N Su N in av	nown or properties of the prop	redicted distribution available ion: C No information available / desorption C coefficient ary's constant information	Concentration No information available	on I No info availab	Method ormation ole	N	Method informatio		
N Su N in av	nown or properties of the prop	redicted distribution available ion: °C No information available / desorption C coefficient ary's constant information le information	Concentration No information available log Kow No information	Evapora rate	Method ormation ole ation e mation	No i	Method information information	on _	



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	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6.	Endocrine disrupting properties
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7.	Other adverse effects
	No information available

SECTION	N 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.
12 1 2	Wests and a function and a simple of a sign of
13.1.2.	Waste codes/waste designations according to Law:
	No information available
13.1.3.	Waste treatment – relevant information:
	No information available
13.1.4.	Sewage disposal – relevant information:
	Waste must not be disposed of into the sewage system.
13.1.5.	Other disposal recommendations:
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.
13.1.6.	Relevant Community provisions:
	-

SECTION 14 TRANSPORT INFORMATION					
Transporting/shipment by	Transporting/shipment by road (ADR)				
UN number:	Not subject to transport regulations.				
UN proper shipping name:	-				
Transport hazard class(es):	-				



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Packing group:	-
Environmental hazard(s):	-
Special precautions for user:	-
Transporting/shipment by rail (R	[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:	-
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 of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (ICA	AO-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: -	



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15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture					
	EU regulations					
	Authorization and/or restr	ictions of use				
	Authorizations:	-				
	Restrictions:	-				
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);				
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)					
	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit value 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 assessmen	nt				
	None					

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)				



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Trading name:	RHODAMINE B, C.I. 45170				
Product code:	RHB-P-X**	Revision date:	31 October 2025	Version:	5

			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.		literature references and rce of data:	-
16.4.	Rele	evant H statements (numbe	r and full text)
		302	Harmful if swallowed.
	H:	318	Causes serious eye damage.
		412	Harmful to aquatic life with long-lasting effects.
16.5.	Trai	ning advice:	-
			** "X" in the product code marks different volumes (different packaging of the product)
16.6.	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.

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EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT

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