

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

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Trading name:	BIOWAX 52/54			
Product code:	BW52/54-X**	Date of compilation:	14 November 2022	Version: 5

1.1.	Product identifier			
	Trading name:	BIOWAX 5	52/54	
	Chemical name:	_		
	Catalogue number:	atalogue number: BW52/54-X**		
1.2.	Relevant identified uses of	the substa	ance or mi	xture and uses advised against
	Uses:			paraffin waxes with low melting point at 52/52°C for ng wide range of different samples.
	Uses advised against:		Only the	identified uses are advised.
	Reason why uses advised agains		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 purposes	
1.3.	Details of the supplier of the safety data sheet			
	Supplier: Bio0		Snost Ltd.	
	Address:	Med	ljugorska 5	a 59, Zagreb
	Telephone number:	+38	5 1 240999	97
	Fax no.:	+38	5 1 240403	39
	e-mail of competent perso	n: <u>msd</u>	s@biogno	ost.hr
	National contact:	-		
1.4.	Emergency telephone num	ber		
	National Protection and Re	scue Direc	ctorate:	112
	Medical information:			+385 1 2348 342
	Other information:			_

SECTIO	ON 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 statements*:				
	Not identified as hazardous substance				
2.1.2.	Additional information				
	-				
*For ful	ll text of Hazard- and EU Hazar	d-statements: see	Section 16		
2.2.	Label elements				
	Product identification:	BIOWAX 52/	<u>2</u> /54		
	Identification number:	Identification number: -			



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	Authorization no.:	-
	Hazard pictograms:	-
	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
	Endocrine Disrupting Properties:	
	No known endocrine disrupting pr	operties.
	PBT: This product is not identifi	ed as a PBT/vPvB Substance according to REACH Annex XIII.

CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)
8002-74-2/ 232-315-6/	01-02119488076- 30	100 %	Paraffin waxes and hydrocarbon waxes	-

	DN 4. First aid measures		
4.1.	Description of first aid m	easures	
	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 wash with plenty of water and soap. 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. Make the afflicted person drink a glass of water. If spontaneous vomiting occurs, wash the mouth with water, then make the person drink 100-200 ml of water and seek medical attention.	
	Self-protection of the first aider:	Treat symptomatically.	
4.2.		ns and effects, both acute and delayed	



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	Following inhalation:	High concentration of vapours may induce: Headache, nausea, dizziness. Irritant effect to the respiratory tract.		
	Following skin contact:	May cause slight irritation to the skin. Heated product may cause burns.		
	Following eye contact:	May cause slight irritation to eyes.		
	Following ingestion:	May cause nausea.		
4.3.	Indication of any immedia	Indication of any immediate medical attention and special treatment needed		
	In contact with or splashed	d by melted product, quickly cool area with water.		

SECTIO	ON 5. Firefighting measure	s		
5.1.	Extinguishing media	Extinguishing media		
	Suitable extinguishing media:	Foam, dry chemical powder, CO ₂		
	Unsuitable extinguishing media:	water		
5.2.	Special hazards arising from the substance or mixture			
	Hazardous combustion products:	Slight flammability hazard when exposed to heat or flame. During a fire, toxic gases (carbon monoxide, nitrous gases) may be generated by thermal decomposition or combustion.		
5.3.	Advice for firefighters			
	Only suitably trained personnel should attempt to tackle fires. Breathing apparatus and protective clothing should be worn. Do not remain in the immediate vicinity without respiratory protective equipment and protective clothing.			
5.4.	Additional information			
	Remove sources of heat a	and ignition. Do not contaminate the environment with extinguishing media.		

SECTIO	ON 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:	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Wear suitable protective clothing and breathing apparatus. See section 8. Stop leak if safe to do so. Remove sources of ignition				
6.2.	Environmental precautions:				



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	-	flush spills away from sources of ignition. Prevent spreading by damming. Do not ter public drainage system or open water course. Avoid release to the environment.
6.3.	Methods and material	for containment and cleaning up
6.3.1.	Bunding, covering of drains; capping procedures:	Stop leak if safe to do so. Use damming system to prevent spreading.
6.3.2.	Cleaning up:	Use sand or active clay to absorb spilled substance and remove to containers for disposal. When in liquid state, cool and allow to solidify.
6.3.3.	Other information:	-
6.4.	Reference to other sec	tions
	See Section 7 for inform	nation about secure handling.
	See Section 8 for inforr	nation about personal protective equipment.
	See Section 13 for info	rmation about containment.

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 heat and ignition. Do not smoke.
	Measures to prevent aerosol and dust generation:	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. Thore	oughly wash hands after work and before eating.
7.2.	Conditions for safe storage, including any incompa	atibilities
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances.
	Packaging materials:	Manufacturer's original packaging.
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.
	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.



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	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 co	ntrols/personal p	rotection		
8.1. Control parame	ters			
Substance	CAS No		nal exposure limit nort term values	Biological limit values
		ppm	mg/m³	
Paraffin wax, smoke	8002-74-	2 -/-	2/6	No information available
Substance - name:				
EC No: -	CAS No:	-		
DNEL				
		Industri	al	
Route of exposure:	Ac ute eff ect loc al	Acute effect systemic	Chror effect lo	
Oral			-	-
Inhalation			-	-
Dermal			-	-
Critical physical parameter	ers: solubility, flam	mability, corrosivit	y: -	
		Consum	er	
Route of exposure:	Ac ute eff ect loc al	Acute effect systemic	Chror effect lo	
Oral			-	-
Inhalation			-	-



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	I .			•	
Dermal		-	-	-	-
PNEC					
Environmental	protection target			PNEC	
Fresh water				No information available	
Freshwater sec	liments			No information available	
Marine water				No information available	
Marine sedime	ents			No information available	
Food chain				No information available	
Microorganism	ns in sewage treatme	nt		No information available	
Soil (agricultur	al)			No information available	
Air				No information available	
8.2.	Exposure controls				
8.2.1.	Appropriate engine		ontrols		
	measures to preven	exposure during identified equ		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.	
	Structural measures prevent exposure:	to	No info	rmation available	
	Organisational mea prevent exposure:	sures to		zation of work in order to reduce work process.	other worker's influence
	Technical measures prevent exposure:	to		proper workspace ventilation in c tration levels in air below permitt	•
8.2.2.	Personal protection	equipr	ment		
8.2.2.1.	Eye and face protec	tion:	Safety of visor.	glasses that stick to face (preventi	ng splashing) (EN 166) or
8.2.2.2.	Skin protection				
	Hand protection:		ard EN 374. Glove mat Glove thicl	nust be according to the EU Directerial: nitrile rubber kness: ≥0.50 mm ugh time: >480 min	tive 2016/425/EEC and
	Other skin protection:			thing made of natural fibers (such , and shoes that cover the entire	
8.2.2.3.	Respiratory protection:	for or	ganic vapors	mask (EN 136) or half mask (EN type "A" (boiling point >65°C) acn levels exceed GVI.	



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8.2.2.4.	Thermal hazards: No infor	mation available
8.2.3.	Environmental exposure conti	rols
	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

).1.	Information on basic physical and che	emical properties	
		Value	Method
	Physical state:	solid (pellets)	No information available
	Color:	transparent white	No information available
	Odour/odour threshold:	no odor/no information available	No information available
	Melting point / freezing point:	52 − 56 °C	No information available
	Boiling point or initial boiling point and boiling range:	>300°C	No information available
	Flammability:	May be combustible at high temperatures	No information available
	Lower and upper explosion limit:	No information available	No information available
	Flash point:	>150°C	No information available
	Auto-ignition temperature:	>200°C	No information available
	Decomposition temperature:	No information available	No information available
	pH:	No information available	No information available
	Kinematic viscosity:	~4.0 cSt (at 100°C)	No information available
	Solubility:	<1mg/l (in water)	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



SECTION 11. Toxicological information

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SECTIO	N 10.: Stability and reactivity	
10.1.	Reactivity:	See subsections 10.3 through 10.5.
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.
10.3.	Possibility of hazardous reactions:	No information available.
10.4.	Conditions to avoid:	Extremes of temperature (preferably, store between 5 and 39°C). The product is combustible when heated >300°C.
10.5.	Incompatible materials:	May react with strong oxidants (e.g. chlorates, peroxides).
10.6.	Hazardous decomposition products:	Thermal decomposition or incomplete combustion may produce carbon monoxide, nitrous gases and irritating fumes.

Acute tox	icity:					
Route of exposure:	Method	Species	Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure t	time	Results
Oral exposure:	No informatior available	1 -	LD ₅₀	-		>5000mg/kg (OECD 401)
Dermal exposure:	No informatior available	1	LD ₅₀	-		>2000mg/kg (OECD 402)
Inhalation	No information	٦ -	LC ₅₀	-		-
exposure:	available					
•	available arget organ toxicit	ty – single expos	ure (STOT SE):		***************************************	
Specific to	arget organ toxicit	Specific effe No infor	cts Targe	et organ		Note
•	arget organ toxicit	Specific effe No infor available	cts Targe mation No informat		-	Note
Specific to	arget organ toxicit	Specific effe No infor available	cts Targe	ion available	-	Note
Specific to	arget organ toxicit	Specific effe No infor available No infor available	mation No informat	ion available		Note
Specific to Oral exposure: Dermal exposure:	arget organ toxicit	Specific effe No infor available No infor available No infor	mation No informat Mo informat Mo informat	ion available	-	Note



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		Exposure time		Species	Evaluation	Method	t l	Note	
Skin irritation:	-		ra	bbit -	-	-	-		
Eye irritation:	_		ra	bbit ·	-	-	-		
Sensit	ization	1							
Dermal exposur	re: N	No information av	ailable						
Inhalation exposure:	١	No information av	ailable						
Symp	toms r	elated to the phy	sical, chem	ical and toxic	cological cha	racteristic	:S		
Oral exposure:		Diarrhoea, gastı	rointestinal	complaints					
Dermal exposur	e:	No information	available						
Inhalation expo	sure:	No information	available						
Eye exposure:		No information	available						
Repea	ated do	ose toxicity (subac	cute, subch	ronic, chroni	c)				
		Dose	Exposure time	Species	Metho	od	Evaluation	Note	
Subacute oral	No ava	information ilable	No informati on available	No informatio available	No inform availab	ation	No information available	-	
Subacute dermal	No ava	information ilable	No informati on available	No informatio available	No in inform availab	ation	No information available	-	
Subacute inhalation	No ava	information ilable	No informati on available	No informatio available	No inform availab	ation	No information available	-	
Subchronic oral	No ava	information ilable	No informati on available	No informatio available	No in inform	ation	No information available	-	

informati

available

No

information

available

No

information

available

No

information

available

No

on

information

Subchronic

dermal

No

available



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Subchronic inhalation	No information available	n intormati		No information available	No informati available	on	-	
Chronic oral	No information available	No informati on available			No information available	No informati available	on	-
Chronic dermal	No information available	No informati on available	No informati available		No information available	No informati available	on	-
Chronic inhalation	No information available	No No No No		on	-			
Specifi	c target organ toxicit	tv – repeated	exposure (STOT	RF)·	•		
	e target organi toxici	Specific e	<u> </u>		Target orga	an		Note
Subacute oral		No information available		No i	nformation avai		-	
Subacute derma		No information available		No i	nformation avai	lable	-	
Subacute inhalat	ion	No information available		No i	nformation avai	lable	-	
Subchronic oral		No inf available			nformation avai	lable	-	
Subchronic derm	nal :	No information available		No information available		lable	-	
Subchronic inhal	ation	No information available		No information available		lable	-	
(hronic oral		No information available		No information available		lable	-	
Chronic dermal		No inf available	formation	No information available		lable	-	
Chronic inhalation		No inf available	formation	No i	nformation avai	lable	-	
CMR e	ffects (carcinogenicit	y; mutagenici	ty; reprodu	ıctive	toxicity)			
	ogenicity:		· · ·		nimals did not in			



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	Genotoxicity:	No information available			
	Mutagenicity in-vivo:	Current in vivo tests did not indicate mutagenic effects.			
	Germ cell mutagenicity:	No information available			
	Reproductive toxicity:	No toxicity on reproductive organs was determined in reproductive organs.			
	Summary of evaluation of the	he CMR properties: -			
11.2.	Information on other hazard	Information on other hazards:			
11.2.1.	Endocrine disrupting prope	rties:			
	No known endocrine disrupting properties that affect human health.				
11.2.2.	Other information:				
	-				

SECTION 12.	Ecological informati	on				
12.1. Toxi	city					
Acute toxicity	Dose	Exposur e time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	Pimephales promelas	No information available	-	>100mg/l
Crustacea:	EC ₅₀	48 hours	Daphina magna	No information available	-	>10000mg/l
Algae/aquati c plants	IC ₅₀	8 days	No information available	No information available	-	-
Microorgani sms	LC ₅₀	72 hours	-	-	-	-
Chronic (long-term) toxicity	Dose	Exposur e 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/aquati c plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-



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Abi	iotic degradation						
	Degradation half- lives		Method	Method		ion	Note
Marine water	No information available	No inforn	nation available		No information a	vailable	-
Fresh water	No information available	No inforn	nation available		No information a	ıvailable	-
Air	No information available	No inforn	nation available		No information a	ıvailable	-
Soil	No information available	No inforn	nation available		No information a	ıvailable	-
Bio	degradation						
% Degradati	on Time (days)	Method		Evaluation		Note
No informati available	on No inforn available		information ilable		o information vailable	No inform	ation available
	accumulative potentia		og Kow)				
Value	Concentration	рН °С	Meth	od	Evaluation		Note
-	No information available		No inform available	ation	No information available	-	
Rio	concentration factor ((BCF)					
Value	Speci		Method		Evaluation		Note
No informati available	•		No information N		lo information vailable	No inforr available	



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Product	t code:	3W52/54-X**	Date of c	ompil	ation:	14 NC	vember 2	2022	Versic	n: 5
	Value	Dose	Exposure time	Spe	ecies	Met	thod	Evaluat	ion	Note
Chronic	toxicity on fis	sh LC ₅₀ i	lo nformation vailable	nformation inforn		No mation information able available		No informatio available	on	-
	toxicity on a (<i>Daphnia</i>)	EC ₅₀ i	lo nformation vailable	formation informat		No nform availab	ation	No informatio available	on	-
12.4.	Mobility in s	soil								
	Known or p	redicted distribu	tion in environr	nental	compartn	nents:				
	No informa	tion available								
	Surface tens	sion:								
	Value	°C	Concentra	tion		Metho	od		Not	e
	No information available	No information available	available		No information available		n	-		
	Adsorption	/ desorption								
Transpo	rt	coefficient ry's constant	log Kow		Evapora rate		Me	thod		Note
Soil-wat	er No availabl	information e	No information available		No informat available		No information available		-	
Water-a	ir No availabl	information e	No inform available	ation	No informat available		No infor		-	
Soil-air	No availabl	information e	No information		No informat available		No information available		-	
12.5.		BT and vPvB ass) ///·			
	Not identific	ed as a PBT/ vPv	B Substance acc	cording	to REAC	H Ann	ex XIII.			
12.6.	Endocrine d	lisrupting prope	ties							
			ting properties							



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12.7. Other adverse effects			
No adverse effects are expected.			
SECTION 13	Disposal considerations		
13.1.	Waste treatment methods		
13.1.	waste treatment methods		
13.1.1.	Product/Packaging disposal:		
	Submit for disposal to the legal Protection.	person authorized by the Ministry of Environmental and Nature	
13.1.2.	Waste codes/waste designation	ns according to Law:	
	No information available		
13.1.3.	Waste treatment – relevant info	ormation:	
	No information available		
13.1.4.	Sewage disposal – relevant info	ormation:	
	Waste must not be disposed of into the sewage system.		
13.1.5.	Other disposal recommendatio	ns:	
	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	5:	
	-		
	•		
SECTION 14. Transport information			
Transporting/shipment by road (ADR)			
UN number:		subject to transport regulations.	
UN proper shipping name:			
Transport haz	ard class(es): -		
Packing group	o:		
	ılly hazardous: -		
	utions for user: -		
Transporting/shipment by rail (RID)			



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UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
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:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by	sea (IMDG)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
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:	-
Environmentally hazardous:	-
Special precautions for user:	-
Further information: The produ	uct is not subject to classification.

SECTIO	SECTION 15. Regulatory information		
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture		
	EU regulations		
	Authorization and/or restrictions of use		
	Authorizations:	-	



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	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 compour 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 assessment		
	None		

SECTION 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.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)		
Classification		Classification procedure	
_	-	•	
16.5.	Relevant H statements (number and full text)		



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

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Trading name:	BIOWAX 52/54		
Product code:	BW52/54-X**	Date of compilation: 14 November 2022	Version: 5

	H - :	-
16.6.	Training advice:	-
		** "X" in the product code marks different volumes (different packagings of the product)
16.7.	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.

ANNEX: Exposure scenario resulting to Chemical safety assessment