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The mixture is classified as dangerous.

Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 STOT SE 3, H335

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse physico-chemical effects

Highly flammable liquid and vapour.

Most serious adverse effects on human health and the environment

Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation. Causes serious eye irritation.

2.2. Label elements



Signal word Danger

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ORTOPOLI LIQUID							
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methylphenyl)	thacrylate of 2,2'-[(4-methylphenyl)imino]bise amino]-	ethanol and Ethanol, 2-[[2	-(2-hydroxyethoxy)ethyl](4-				
Hazard state							
H225	Highly flammable	liquid and vapour.					

H225	Hignly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Precautionary statements	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P262	Do not get in eyes, on skin, or on clothing.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P501	Dispose of contents/container to in accordance with local/regional/national/international regulations.

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Product contents mainly methyl methacrylate, pigments and dimethacrylate.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 607-035-00-6 CAS: 80-62-6 EC: 201-297-1 Registration number: 01-2119452498-28	Methyl methacrylate	85-98	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	2
Index: 607-114-00-5 CAS: 97-90-5 EC: 202-617-2 Registration number: 01-2119965172-38	Ethylene dimethacrylate	2,5-10	Skin Sens. 1, H317 STOT SE 3, H335	1
EC: 911-490-9 Registration number: 01-2119979579-10- 0001	Reaction mass of 2,2'-[(4-methylphenyl) imino]bisethanol and Ethanol, 2-[[2-(2- hydroxyethoxy)ethyl](4-methylphenyl) amino]-	≤2	Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Chronic 3, H412	

Notes

1 Note D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3 of Annex VI to Regulation (EC) No 1272/2008. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier who places such a substance on the market must state on the label the name of the substance followed by the words "non-stabilised".

2 A substance for which exposure limits are set.

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Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists. Rinse skin with water or shower.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

If swallowed

Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

4.2. Most important symptoms and effects, both acute and delayed

If inhaled

May cause respiratory irritation. Cough, headache.

If on skin

May cause an allergic skin reaction. Causes skin irritation. Irritation, itching, redness.

If in eyes

Causes serious eye irritation. Irritation, lacrimation, pain.

If swallowed

Irritation, nausea.

4.3. Indication of any immediate medical attention and special treatment needed Symptomatic treatment.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist. Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

Highly flammable liquid. In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. Highly flammable liquid and vapour. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes.

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6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. In the event of substantial pollution, contact respective authorities and wastewater treatment plants.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Only adequate trained persons may deal with product. For use in dentistry only.

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. The vapour is heavier than air; beware of pits and confined spaces. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. No smoking. Wash hands and exposed parts of the body thoroughly after handling. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take action to prevent static discharges. Keep away from children.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Keep cool. Keep away from sources of ignition - No Smoking. Keep away from children.

Keep the liquid only in the original vessel at a temperature preferably not exceeding 25°C.

The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

7.3. Specific end use(s)

Expiry date: Considering the instructions for safety storage and handling the expiry date is three years.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union				nission Directive 2009/161/EU
Substance	e name (component)	Туре	Value	Note
Methyl methacrylate (CAS: 80-62-6)		OEL 8 hours	50 ppm	
		OEL 15 minutes	100 ppm	

Slovenia

Uradni list RS, Št. 72/2021

Slovenia			
Substance name (component)	Туре	Value	Note
	8 hours	210 mg/m ³	
Methyl methacrylate (CAS: 80-62-6)	8 hours	50 ppm	Substances representing no risk to the foetus with reference to the limit values.
	KTV (15 min)	420 mg/m ³	

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Slovenia		Uradni list RS, Št. 72/2021	
Substance name (component)	Туре	Value	Note
Methyl methacrylate (CAS: 80-62-6)	KTV (15 min)		Substances representing no risk to the foetus with reference to the limit values.

United Kingdom	EH40/2005 Wo	rkplace exposu	re limits (Fourth Edition 2020)
Substance name (component)	Туре	Value	Note
	WEL 8h	208 mg/m ³	
Mathud mathematicate (CAC: 20, C2, C)	WEL 8h	50 ppm	
Methyl methacrylate (CAS: 80-62-6)	WEL 15min	416 mg/m ³	
	WEL 15min	100 ppm	

DNEL

Ethylene dimethacrylate

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	2.45 mg/m ³	Systemic chronic effects		ECHA REACH
Workers	Dermal	1.3 mg/kg bw/day	Systemic chronic effects		ECHA REACH
Consumers	Inhalation	1.45 mg/m ³	Systemic chronic effects		ECHA REACH
Consumers	Dermal	0.83 mg/kg bw/day	Systemic chronic effects		ECHA REACH
Consumers	Oral	0.83 mg/kg bw/day	Systemic chronic effects		ECHA REACH
Methyl methacr	ylate				
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	348.4 mg/m ³	Systemic chronic effects		ECHA REACH
Workers	Inhalation	208 mg/m ³	Local chronic effects		ECHA REACH
Workers	Inhalation	416 mg/m ³	Local acute effects		ECHA REACH
Workers	Dermal	13.67 mg/kg bw/day	Systemic chronic effects		ECHA REACH
Workers	Dermal	1.5 mg/cm ²	Local chronic effects		ECHA REACH
Workers	Dermal	1.5 mg/cm ²	Local acute effects		ECHA REACH
Consumers	Inhalation	74.3 mg/m ³	Systemic chronic effects		ECHA REACH
Consumers	Inhalation	104 mg/m ³	Local chronic effects		ECHA REACH
Consumers	Inhalation	208 mg/m ³	Local acute effects		ECHA REACH
Consumers	Dermal	8.2 mg/kg bw/day	Systemic chronic effects		ECHA REACH
Consumers	Dermal	1.5 mg/cm ²	Local chronic effects		ECHA REACH
Consumers	Dermal	1.5 mg/cm ²	Local acute effects		ECHA REACH
Consumers	Oral	8.2 mg/kg bw/day	Systemic chronic effects		ECHA REACH

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Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	9.8 mg/m ³	Systemic chronic effects		ECHA REACH
Workers	Dermal	1.4 mg/kg bw/day	Systemic chronic effects		ECHA REACH
Consumers	Inhalation	1.74 mg/m ³	Systemic chronic effects		ECHA REACH
Consumers	Dermal	0.5 mg/kg bw/day	Systemic chronic effects		ECHA REACH
Consumers	Oral	0.5 mg/kg bw/day	Systemic chronic effects		ECHA REACH

PNEC

Ethylene dimethacrylate

Route of exposure	Value	Value determination	Source
Freshwater environment	0.139 mg/l		ECHA REACH
Seawater	0.014 mg/l		ECHA REACH
Microorganisms in wastewater treatment plants	57 mg/l		ECHA REACH
Freshwater sediment	1.6 mg/kg of dry substance of sediment		ECHA REACH
Sea sediments	0.16 mg/kg of dry substance of sediment		ECHA REACH
Soil (agricultural)	0.239 mg/kg of dry substance of soil		ECHA REACH

Methyl methacrylate

Route of exposure	Value	Value determination	Source
Freshwater environment	0.94 mg/l		ECHA REACH
Seawater	0.094 mg/l		ECHA REACH
Microorganisms in wastewater treatment plants	10 mg/l		ECHA REACH
Freshwater sediment	10.2 mg/kg of dry substance of sediment		ECHA REACH
Sea sediments	1.02 mg/kg of dry substance of sediment		ECHA REACH
Soil (agricultural)	1.48 mg/kg of dry substance of soil		ECHA REACH

Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-

Route of exposure	Value	Value determination	Source
Freshwater environment	0.048 mg/l		ECHA REACH
Water (intermittent release)	0.48 mg/l		ECHA REACH
Seawater	0.005 mg/l		ECHA REACH
Microorganisms in wastewater treatment plants	10 mg/l		ECHA REACH

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Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-

Route of exposure	Value	Value determination	Source
Freshwater sediment	1.2 mg/kg of dry substance of sediment		ECHA REACH
Sea sediments	0.12 mg/kg of dry substance of sediment		ECHA REACH
Soil (agricultural)	0.21 mg/kg of dry substance of soil		ECHA REACH

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective glasses with side shields. EN166 - Personal Eye Protection Standard.

Skin protection

Hand protection: Protective gloves resistant to the product. EN ISO 374-1. Material: butyl rubber.

Change gloves, if contamination occurs or duration of activity exceed break through time. Breakthrough time of the glove material: refer to the information provided by the glove 's producer. Commercial medical gloves do not provide protection against the sensitizing effect of methacrylates. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer.

Respiratory protection

Halfmask with a filter against organic vapours type A or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Colour Odour Melting point/freezing point Boiling point or initial boiling point and boiling range Flammability	liquid colourless characteristic, strong -48 °C 100,5 °C data not available
Flammability Lower and upper explosion limit bottom upper Flash point Auto-ignition temperature Decomposition temperature pH Kinematic viscosity Viscosity	data not available 2,1 % 12,5 % 10 °C 421 °C data not available data not available data not available 0,53 mPas at 20 °C
Solubility in water Partition coefficient n-octanol/water (log value) Vapour pressure Density and/or relative density	slightly soluble; 1,6 % at 20°C 1,38 3600 Pa at 20 °C

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9.2.	Density Relative vapour of Particle character Other informat not available	ristics	0,94 g/cm ³ at 2 3,5 (air = 1) data not availab		
	ON 10: Stability	and reactivity			
10.1.	Reactivity				
		v polymerise in the presence of ini 	tiators.		
10.2.	Chemical stabil	ITY able under normal conditions.			
103	•	azardous reactions			
10.01	•	lymerisation initiated by prolonge	d heating or the presenc	e of catalyst.	
10.4.			- · · · · · · · · · · · · · · · · · · ·		
	The product is st against frost.	able and no degradation occurs u	under normal use. Prote	ct against flames, sp	arks, overheating and
10.5.	•				
		atalysts, such as peroxy or azo co			
10.6.		n metals. Organic Nitrogen contain Composition products	ing compounds. Cyclone	examine / Cyclonexer	
10.0.		nder normal uses. Dangerous out	comes such as carbon m	nonoxide and carbon	dioxide are formed at
	Inhalation of solv inhalation poison the mixture. Acute toxicity	hazard classes as defined in R rent vapors above values exceedin ing, depending on the level of con le data the classification criteria a	g exposure limits for wo centration and exposure	rking environment m	

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD50		>5000 mg/kg		Rat	
Dermal	LD50		>2000 mg/kg			
Methyl methacrylate						

Theory Theorem and your			
Route of exposure	Parameter	Method	Valı

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD50		>5000 mg/kg			
Inhalation	LC50		7093 ppm	4 hour		
Dermal	LD50		>5000 mg/kg			
Dermal	LD50					

Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	EC50	OECD 401	619 mg/kg			
Dermal	EC50	OECD 402	>2000 mg/kg			

Skin corrosion/irritation

Causes skin irritation.

Ethylene dimethacrylate

Route of exposure	Result	Method	Exposure time	Species	Source
Dermal	Not irritating		24 hour	Rabbit	FDA 1959 Drazie

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Reaction mass of methylphenyl)ami		ienyl)imi	no]bisethano	ol and	Ethanol, 2-[[2-(2	2-hydro	xyethoxy	/)ethyl]([,]	4-
Route of exposure	Result	Met		Expos	sure time	Speci	es		Source
Dermal	Irritating		D 439						
Eye	Irritating	OEC	D 405						
Serious eye dam Causes serious eye Ethylene dimethad	e irritation.								
Route of exposure	e Result		Method		Exposure time	9	Spe	ecies	
Eye	Not irritating		OECD 405				Rat	bit	
Methyl methacryla									
Route of exposure	e Result		Method		Exposure time	9	Spe	ecies	
Eye	Slightly irritati	ng	OECD 405				Rat	bit	
sensitizer. Ethylene dimethad Route of exposure		I	Method		Exposure time		Species		Sex
Dermal	Sensitizing						Mouse (lympho	oma)	
Methyl methacryla	ate						(·/···p···	,	
Route of exposure	e Result	I	Method		Exposure time		Species		Sex
Dermal	Sensitizing	(DECD 429				Mouse		
Dermal	Sensitizing						Human		
Reaction mass of methylphenyl)ami		ienyl)imi	no]bisethand	ol and	Ethanol, 2-[[2-(2	2-hydro	xyethoxy	/)ethyl](4-
Route of exposure	e Result		Method		Exposure time		Species		Sex
Dermal	Sensitizing	(DECD 429						
Germ cell mutag Based on available Methyl methacryla	e data the classific	ation cri	teria are not	met.	Constitution			_	
Result	Method		Exposure tim	ne	Specific target organ	Speci		Sex	Source
Negative	OECD 471						onella murium		TA1535 1537,9 98,100
Negative	OECD 478								Rodent domina lethal test
Negative	OECD 474					eryth	malian rocyte onucleus		in vivo
Positive	OECD 473								In vitro mamm an cell gene mutatio test

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ORTOPOLI LIQUID Creation date 14th May 2021 Revision date 12th January 2023 Version 3.0 Carcinogenicity Based on available data the classification criteria are not met. Methyl methacrylate Nethod Value Result Species Sex

exposure	i al allietei	Methou	value	Result	Species	Jex
		OECD 451		Not		
				carcinogenic		

Reproductive toxicity

Based on available data the classification criteria are not met.

Methyl methacrylate

Effect	Parameter	Method	Value	Result	Species	Sex	Source
Effects on fertility	NOAEC	OECD 414	>2028 ppm		Rat		vdihavanje
Developmenta I toxicity	NOAEL		450 mg/kg bw		Rabbit		oralno

Toxicity for specific target organ - single exposure

May cause respiratory irritation.

Ethylene dimethacrylate

Route of exposure	Parameter	Value	Result	Species	Sex
Inhalation			Irritating		

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Repeated exposure to high levels produces adverse effects on the heart, lungs, liver and kidneys.

Repeated exposure of animals by inhalation to levels at or above the occupational exposure level produces adverse effects on the nasal epithelium (levels of 100 and 400 ppm).

There is no reason to believe that methyl methacrylate represents a carcinogenic or mutagenic hazard to man based upon evidence from well conducted animal studies, relevant mutagenicity studies and adequate epidemiology studies in relevant cohorts.

Recent studies in animals have shown that high exposures do not produce embryo or foetotoxic nor teratogenic effects in the presence of maternal toxicity.

Methyl methacrylate

Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex
Oral	NOEL		>2000 ppm	104 week		Rat	
Inhalation	NOAEC	OECD 453	100 ppm	104 week		Rat	
Inhalation	NOAEC	OECD 412	1000 ppm	14 week		Mouse	

Aspiration hazard

Based on available data the classification criteria are not met.

11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

It can cause harmful effects on the environment. Prevent uncontrolled release. Ethylene dimethacrylate

Ρ	Parameter	Method	Value	Exposure time	Species	Environme nt	Value determination
	-C50	OECD 203	15.95 mg/l	96 hour	Fishes (Oncorhynchus mykiss)		
E	EC₅o	OECD 202	44.9 mg/l	48 hour	Daphnia (Daphnia magna)		

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Ethylene dimethacrylate

Parameter	Method	Value	Exposure time	Species	Environme nt	Value determination
EC50	OECD 201	17.3 mg/l	72 hour	Algae (Selenastrum capricornutum)		
EC50	OECD 209	570 mg/l	3 hour	Microorganisms (Pseudomonas putida)		

Methyl methacrylate

Parameter	Method	Value	Exposure time	Species	Environme nt	Value determination
LC50		>100 mg/l		Fishes		
LC50		130 mg/l	96 hour	Fishes (Fathead minnow)		Static system
EC₅o		69 mg/l	48 hour	Daphnia (Daphnia magna)		
EC50		170 mg/l	96 hour	Algae (Selenastrum capricornutum)		

Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-

Parameter	Method	Value	Exposure time	Species	Environme nt	Value determination
LC50	OECD 203	>100 mg/l	96 hour	Fishes (Oncorhynchus mykiss)		
EC₅o	OECD 202	48 mg/l	48 hour	Daphnia (Daphnia magna)		
EC₅o	OECD 201	>100 mg/l		Algae (Selenastrum capricornutum)		

Chronic toxicity

Ethylene dimethacrylate

Parameter	Method	Value	Exposure time	Species	Environmen t
NOEC	OECD 211	5.05 mg/l	21 day	Daphnia (Daphnia magna)	

Methyl methacrylate

Parameter	Method	Value	Exposure time	Species	Environmen t
NOEC		8.4 mg/l	35 day	Fishes (Zebra fish)	

12.2. Persistence and degradability

Biodegradability Methyl methacrylate

Parameter	Method	Value	Exposure time	Environment	Result
					Easily biodegradable
COD		88 %	28 day		
DOC removal		>95 %	28 day		

Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301B	>100 mg/l	96 hour		Hardly biodegradable
Readily biodegradable.					

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12.3. Bioaccumulative potential

Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-

Parameter	-	Method	Value	Exposure time	Species	Environment	Temperature [°C]
Log Kow		OECD 117	2.17				
The product has low potential for bioacumulation							

The product has low potential for bioacumulation.

12.4. Mobility in soil

Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-

Parameter	Method	Value	Environment	Temperature
Log Koc	OECD 122	2.33		20°C

The product is predicted to have high mobility in soil.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Producer Responsibility Obligations (Packaging Waste) Regulations 2007 (S.I. No. 871 of 2007). Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

SECTION 14: Transport information

- 14.1. UN number or ID number
- UN 1247 14.2. UN proper shipping name
 - METHYL METHACRYLATE MONOMER, STABILIZED
- 14.3. Transport hazard class(es)
- 3 Flammable liquids
- 14.4. Packing group
 - II substances presenting medium danger

14.5. Environmental hazards

14.6. Special precautions for user

Always transport closed containers in the upright position. Make sure that the person transporting the product knows the ways of handling the product in the event of accident. Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

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Additional info	ormation			
Hazard ide	ntification No.	339		
UN numbe	r	1247		
Classificati	on code	F1		
Safety sigr	IS	3		
		3		
Road transpor	t - ADR	•		
Special pro		386		
Limited qua		1 L		
Excepted q		E2		
Packaging				
Packing ins		P001, IBC02, R001		
	king provisions	MP19		
	anks and bulk containers	1.1.19		
Guidelines		Τ4		
Special pro	ovisions	TP1		
ADR tank				
Tank code		LGBF		
	r tank carriage	FL		
Transport of	-	2		
	triction code	_ (D/E)		
	ovision for	(-/-)		
packages		V8		
operation		S2, S4, S20		
Railway trans	nort - RID	01, 01, 010		
Special pro		386		
Excepted q		E2		
Packaging		LZ		
Packing ins		P001, IBC02, R001		
	king provisions	MP19		
	anks and bulk containers	11119		
Guidelines		T4		
Special pro	wisions	TP1		
RID Tanks		11 1		
Tank code	5	LGBF		
Transport of	category	0		
	rovision for	0		
packages		W 8		
Air transport -				
-	instructions for limited amount	Y341		
	instructions passenger	353		
	aging instructions	353 364		
Cargo pack Marine transp		JU4		
	rgency plan)	F-E, S-D		

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Environmental Protection Act 1990 as amended. Clean Air Act 1993 as amended. Public health act 1961. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended.

Product is a medical device class IIa according to the Medical Device Regulation MDR 2017/745.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

A list	of standard risk phras	es used in the safety data sheet
H225		Highly flammable liquid and vapour.
H302		Harmful if swallowed.
H315		Causes skin irritation.
H317		May cause an allergic skin reaction.
H318		Causes serious eye damage.
H319		Causes serious eye irritation.
H335		May cause respiratory irritation.
H412		Harmful to aquatic life with long lasting effects.
Guide	lines for safe handling	y used in the safety data sheet
P210		Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261		Avoid breathing dust/fume/gas/mist/vapours/spray.
P280		Wear protective gloves/protective clothing/eye protection/face protection.
P303+	P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P501		Dispose of contents/container to in accordance with local/regional/national/international regulations.
P262		Do not get in eyes, on skin, or on clothing.
Other	important information	n about human health protection
		ess specifically approved by the manufacturer/importer - used for purposes other than is responsible for adherence to all related health protection regulations.
Key to	abbreviations and ac	ronyms used in the safety data sheet
ADR		European agreement concerning the international carriage of dangerous goods by road
BCF		Bioconcentration Factor
CAS		Chemical Abstracts Service
CLP		Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL		Derived no-effect level
EC50		Concentration of a substance when it is affected 50% of the population
EINEC	S	European Inventory of Existing Commercial Chemical Substances
EmS		Emergency plan
ES		Identification code for each substance listed in EINECS
EU		European Union
EuPCS		European Product Categorisation System
HOS		Volatile organic compounds
IATA		International Air Transport Association
IBC		International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals

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ICAO	International Civil	Aviation Organization			
IMDG	International Mari	time Dangerous Goods			
INCI	International Nom	enclature of Cosmetic Ing	gredients		
ISO	International Orga	nization for Standardizat	ion		
IUPAC	International Unio	n of Pure and Applied Ch	emistry		
LC50	Lethal concentration	on of a substance in whic	h it can be expected death of 50% of the		
LD50	Lethal dose of a su population	Lethal dose of a substance in which it can be expected death of 50% of the			
log Kow	Octanol-water par	tition coefficient			
MARPOL	International Conv	vention for the Preventior	n of Pollution from Ships		
NOAEC	No observed adve	rse effect concentration			
NOAEL	No observed adve	rse effect level			
NOEC	No observed effec	t concentration			
NOEL	No observed effec	t level			
OEL	Occupational Expo	sure Limits			
PBT	Persistent, Bioaccu	umulative and Toxic			
PNEC	Predicted no-effec	t concentration			
ppm	Parts per million				
REACH	Registration, Evalu	uation, Authorisation and	Restriction of Chemicals		
RID	Agreement on the	transport of dangerous g	goods by rail		
UN	Four-figure identif Model Regulations		ostance or article taken from the UN		
UVCB	Substances of unk biological material		ition, complex reaction products or		
vPvB	Very Persistent an	d very Bioaccumulative			
Acute Tox.	Acute toxicity				
Aquatic Chronic		aquatic environment (chr	onic)		
Eye Dam.	Serious eye dama		-		
Éye Irrit.	Eye irritation	-			
Flam. Liq.	Flammable liquid				
Skin Irrit.	Skin irritation				
Skin Sens.	Skin sensitization				
STOT SE	Specific target org	an toxicity - single expos	sure		

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 3.0 replaces the SDS version 2.0. and first version from 14.05.2021.

Changes were made in sections:

2.1. Classification of the substance or mixture,

- 2.2. Label elements,
- 2.3 Other hazards,
- 3.2 Mixtures content in % weight,
- 11.2 Information on other hazards,
- 12.6 Endocrine disrupting properties and 16 Other information.

More information

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Classification procedure - calculation method.

Safety Data Sheet created by CHEM CONSULTING s.p.(www.chem-consulting.si)

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.