

Safety Data Sheet according to (EC) No 1907/2006 as amended

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SDS No.: 280611

V001.1

Revision: 06.09.2024

printing date: 25.01.2025

Replaces version from: 04.12.2023

Kit/Multi-component Product

1. SDS No.196346 - LOCTITE AA 3038 Comp. A

LOCTITE AA 3038 known as Loctite 3038 50ml En/De

2. SDS No.235646 - LOCTITE AA 3038 Comp. B



LOCTITE AA 3038 Comp. A

Safety Data Sheet according to (EC) No 1907/2006 as amended

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SDS No.: 196346 V001.1

Revision: 06.09.2024

printing date: 25.01.2025

Replaces version from: 13.06.2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

LOCTITE AA 3038 Comp. A

UFI: XGC3-R0KT-U00T-QU5M

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use:

Acrylic Adhesive

1.3. Details of the supplier of the safety data sheet

Henkel Ltd

Adhesives

Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website www.mysds.henkel.com or www.henkel-adhesives.com.

1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

$\textbf{Classification} \ (\textbf{CLP}) \textbf{:}$

Acute toxicity Category 4

H302 Harmful if swallowed. Route of Exposure: Oral

Skin irritation Category 2

H315 Causes skin irritation.

Serious eye damage Category 1

H318 Causes serious eye damage.

Skin sensitizer Category 1

H317 May cause an allergic skin reaction.

Germ cell mutagenicity Category 2

H341 Suspected of causing genetic defects.

Toxic to reproduction Category 1B

H360FD May damage fertility. May damage the unborn child.

Specific target organ toxicity - repeated exposure Category 2

H373 May cause damage to organs through prolonged or repeated exposure.

Chronic hazards to the aquatic environment Category 2

H411 Toxic to aquatic life with long lasting effects.

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2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Contains Reaction mass of 2-ethyl-2-[[3-(2-methylaziridin-1-yl)propionyl]methyl]propane-1,3-diyl

bis(2-methylaziridine-1-propionate) and 2,2-bis({[3-(2-methylaziridin-1-yl)propanoyl]oxy}methyl)butyl-3-2,2-bis({[3-(2-methylaziridin-1-yl)

propanoyl]oxy}methyl)butoxy]

2,5,8,11,14-Pentaoxapentadecane Lithium tri-sec-butylhydroborate

Signal word: Danger

Hazard statement: H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.H318 Causes serious eye damage.H341 Suspected of causing genetic defects.

H360FD May damage fertility. May damage the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Supplemental information Restricted to professional users.

Precautionary statement: P201 Obtain special instructions before use.

Prevention P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement: P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

Response contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention. P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

2.3. Other hazards

None if used properly.

Following substances are present in a concentration ≥ the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration \geq the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M- factors and ATEs	Add. Information
Reaction mass of 2-ethyl-2-[[3-(2-methylaziridin-1-yl)propionyl]methyl]propane-1,3-diyl bis(2-methylaziridine-1-propionate) and 2,2-bis({[3-(2-methylaziridin-1-yl)propanoyl]oxy}methyl)butyl-3-2,2-bis({[3-(2-methylaziridin-1-yl)propanoyl]oxy}methyl)butoxy] 01-2119963929-15	50- 100 %	Acute Tox. 4, Oral, H302 Eye Dam. 1, H318 Skin Sens. 1A, H317 Muta. 2, H341 STOT RE 2, H373 Aquatic Chronic 2, H411	oral:ATE = 1.000 mg/kg	
Silica, surface treated with Hexamethyldisilazane - Nano 7631-86-9 231-545-4 01-2119379499-16	20- 40 %	STOT RE 2, Inhalation, H373	dermal:ATE => 5.000 mg/kg oral:ATE => 5.000 mg/kg inhalation:ATE => 5,01 mg/l;dust/mist	
2,5,8,11,14-Pentaoxapentadecane 143-24-8 205-594-7 01-2119958965-16	10- 20 %	Repr. 1B, H360FD		SVHC
Lithium tri-sec-butylhydroborate 38721-52-7 254-101-1 01-2120063755-50	1-< 5 %	Water-react. 1, H260 Skin Corr. 1A, H314 Eye Dam. 1, H318		
Dimethylaminoethanol 108-01-0 203-542-8	0,1-< 1 %	Acute Tox. 3, Inhalation, H331 Acute Tox. 4, Oral, H302 Flam. Liq. 3, H226 Acute Tox. 4, Dermal, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318	STOT SE 3; H335; C >= 5 % ===== inhalation:ATE = 6,1 mg/l;vapour	

If no ATE values are displayed, please refer to LD/LC50 values in Section 11. For full text of the H - statements and other abbreviations see section 16 "Other information".

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Move to fresh air. If symptoms persist, seek medical advice.

Skin contact:

Rinse with running water and soap.

Obtain medical attention if irritation persists.

Eve contact

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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

SKIN: Rash, Urticaria.

INGESTION: Nausea, vomiting, diarrhea, abdominal pain.

SKIN: Redness, inflammation.

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

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

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

water, carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Additional information:

In case of fire, keep containers cool with water spray.

SECTION 6: Accidental release measures

${\bf 6.1.}\ Personal\ precautions,\ protective\ equipment\ and\ emergency\ procedures$

Avoid contact with skin and eyes.

Wear protective equipment.

Ensure adequate ventilation.

Keep away from sources of ignition.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Dispose of contaminated material as waste according to Section 13.

For small spills wipe up with paper towel and place in container for disposal.

For large spills absorb onto inert absorbent material and place in sealed container for disposal.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid skin and eye contact.

See advice in section 8

Hygiene measures:

Good industrial hygiene practices should be observed.

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, well-ventilated place.

Keep away from sources of ignition.

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7.3. Specific end use(s)

Acrylic Adhesive

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Great Britain

Ingredient [Regulated substance]	ppm	mg/m³	• •	Short term exposure limit category / Remarks	Regulatory list
2-Dimethylaminoethanol 108-01-0 [2-DIMETHYLAMINOETHANOL]	2	7,4	Time Weighted Average (TWA):		EH40 WEL
2-Dimethylaminoethanol 108-01-0 [2-DIMETHYLAMINOETHANOL]	6	22	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL

Occupational Exposure Limits

Valid for

Ireland

Ingredient [Regulated substance]	ppm	mg/m ³	V 1	Short term exposure limit category / Remarks	Regulatory list
Lithium tri-sec-butylhydroborate		2	Time Weighted Average		IR_OEL
38721-52-7			(TWA):		
[BORATE COMPOUNDS INORGANIC]					

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value	Value			Remarks
			mg/l	ppm	mg/kg	others	
Bis(2-(2-methoxyethoxy)ethyl) ether 143-24-8	aqua (freshwater)		32 mg/l				
Bis(2-(2-methoxyethoxy)ethyl) ether 143-24-8	aqua (marine water)		3,2 mg/l				
Bis(2-(2-methoxyethoxy)ethyl) ether 143-24-8	aqua (intermittent releases)		50 mg/l				
Bis(2-(2-methoxyethoxy)ethyl) ether 143-24-8	sediment (freshwater)				127 mg/kg		
Bis(2-(2-methoxyethoxy)ethyl) ether 143-24-8	sediment (marine water)				12,7 mg/kg		
Bis(2-(2-methoxyethoxy)ethyl) ether 143-24-8	sewage treatment plant (STP)		500 mg/l				
Bis(2-(2-methoxyethoxy)ethyl) ether 143-24-8	Soil				6,7 mg/kg		
Bis(2-(2-methoxyethoxy)ethyl) ether 143-24-8	oral				8,32 mg/kg		

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Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica 7631-86-9	Workers	inhalation	Long term exposure - systemic effects			
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica 7631-86-9	Workers	inhalation	Long term exposure - local effects			
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica 7631-86-9	Workers	inhalation	Acute/short term exposure - systemic effects			
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica 7631-86-9	Workers	inhalation	Acute/short term exposure - local effects			
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica 7631-86-9	Workers	dermal	Long term exposure - systemic effects			
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica 7631-86-9	Workers	dermal	Acute/short term exposure - systemic effects			
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica 7631-86-9	Workers	dermal	Long term exposure - local effects			
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica 7631-86-9	Workers	dermal	Acute/short term exposure - local effects			
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica 7631-86-9	General population	inhalation	Long term exposure - systemic effects			
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica 7631-86-9	General population	inhalation	Acute/short term exposure - systemic effects			
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica 7631-86-9	General population	inhalation	Long term exposure - local effects			
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica 7631-86-9	General population	inhalation	Acute/short term exposure - local effects			
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica 7631-86-9	General population	dermal	Long term exposure - systemic effects			
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica 7631-86-9	General population	dermal	Acute/short term exposure - systemic effects			
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica 7631-86-9	General population	dermal	Long term exposure - local effects			
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica 7631-86-9	General population	dermal	Acute/short term exposure - local effects			
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica 7631-86-9	General population	oral	Long term exposure - systemic effects			
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica 7631-86-9	General population	oral	Acute/short term exposure - systemic effects			

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Bis(2-(2-methoxyethoxy)ethyl) ether 143-24-8	Workers	Inhalation	Long term exposure - systemic effects	22 mg/m3	
Bis(2-(2-methoxyethoxy)ethyl) ether 143-24-8	Workers	dermal	Long term exposure - systemic effects	3 mg/kg	

Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls:

Ensure good ventilation/extraction.

Respiratory protection:

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly

ventilated area

Filter type: A (EN 14387)

Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; \geq = 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing. Protective eye equipment should conform to EN166.

Skin protection:

Wear suitable protective clothing.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Delivery form Delivery form

Colour Amber Colour vellowish Odor mild, Acrylic Odor mild Physical state liauid

Melting point Not applicable, Product is a liquid

< -30 °C (< -22 °F) Solidification temperature Initial boiling point $> 100 \, ^{\circ}\text{C} \, (> 212 \, ^{\circ}\text{F})$

Flammability The product is not flammable.

Not applicable, The product is not flammable. Explosive limits

> 93 °C (> 199.4 °F) Flash point

Auto-ignition temperature Not applicable, The product is not flammable.

Decomposition temperature Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use SDS No.: 196346 V001.1 Page 8 of 21

pH Not applicable, Product is non-soluble (in water).

Viscosity (kinematic) > 20,5 mm2/s

(40 °C (104 °F);)

Viscosity, dynamic 1.500 - 15.000 mPa.s LCT STM 740; cone & plate viscosity

(Cone and plate; Instrument: Physica MCR300; 25

°C (77 °F); speed of rotation: 20 min-1)

Viscosity, dynamic 1.500 - 15.000 mPa.s LCT STM 740; cone & plate viscosity

(Cone and plate; speed of rotation: 20,0 min-1) Solubility (qualitative)

(20 °C (68 °F); Solvent: Water)

Solubility (qualitative)

(20 °C (68 °F); Solvent: Acetone)

Partition coefficient: n-octanol/water

Partition coefficient: n-octanol/water

Vapour pressure (20 °C (68 °F))

Density

(20 °C (68 °F)) Relative vapour density:

(20 °C)

Particle characteristics

Soluble

Not applicable Mixture < 1 hPa

Not miscible or difficult to mix

1,17 g/cm3

> 1

Not applicable Product is a liquid

9.2. Other information

Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with strong oxidants.

Acids.

Reducing agents.

Strong bases.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Stable under normal conditions of storage and use.

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

carbon oxides.

Hydrocarbons

nitrogen oxides

Rapid polymerisation may generate excessive heat and pressure.

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SECTION 11: Toxicological information

General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Species	Method
CAS-No.	type	200 2000		OF CD C 1111 422 (4 1 2 2 1 1 1 1 2 2
Reaction mass of 2-ethyl- 2-[[3-(2-methylaziridin-1- yl)propionyl]methyl]prop ane-1,3-diyl bis(2- methylaziridine-1-	LD50	> 300 - 2.000 mg/kg	rat	OECD Guideline 423 (Acute Oral toxicity)
propionate) and 2,2- bis({[3-(2-methylaziridin- 1- yl)propanoyl]oxy}methyl)				
butyl-3-2,2-bis({[3-(2-methylaziridin-1-yl) propanoyl]oxy}methyl)bu toxyl				
Reaction mass of 2-ethyl- 2-[[3-(2-methylaziridin-1- yl)propionyl]methyl]prop ane-1,3-diyl bis(2-	Acute toxicity estimate (ATE)	1.000 mg/kg		Expert judgement
methylaziridine-1- propionate) and 2,2- bis({[3-(2-methylaziridin- 1-				
yl)propanoyl]oxy}methyl) butyl-3-2,2-bis({[3-(2- methylaziridin-1-yl) propanoyl]oxy}methyl)bu toxy]				
Silica, surface treated with Hexamethyldisilazane - Nano 7631-86-9	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Silica, surface treated with Hexamethyldisilazane - Nano 7631-86-9	Acute toxicity estimate (ATE)	> 5.000 mg/kg		Expert judgement
2,5,8,11,14- Pentaoxapentadecane 143-24-8	LD50	3.850 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Dimethylaminoethanol 108-01-0	LD50	1.182,7 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)

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Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
Reaction mass of 2-ethyl-	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
2-[[3-(2-methylaziridin-1-				
yl)propionyl]methyl]prop				
ane-1,3-diyl bis(2-				
methylaziridine-1-				
propionate) and 2,2-				
bis({[3-(2-methylaziridin-				
1-				
yl)propanoyl]oxy}methyl)				
butyl-3-2,2-bis({[3-(2-				
methylaziridin-1-yl) propanoyl]oxy}methyl)bu				
toxy]				
Silica, surface treated	LD50	> 5.000 mg/kg	rabbit	not specified
with	LD30	> 5.000 mg/kg	Tabbit	not specified
Hexamethyldisilazane -				
Nano				
7631-86-9				
Silica, surface treated	Acute	> 5.000 mg/kg		Expert judgement
with	toxicity	8 8		1
Hexamethyldisilazane -	estimate			
Nano	(ATE)			
7631-86-9				
Dimethylaminoethanol	LD50	1.219 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
108-01-0				

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Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Test atmosphere		Species	Method
CAS-No.	type			time		
Silica, surface treated	LC50	> 5,01 mg/l	dust/mist	4 h	rat	OECD Guideline 436 (Acute
with						Inhalation Toxicity: Acute
Hexamethyldisilazane -						Toxic Class (ATC) Method)
Nano						
7631-86-9						
Silica, surface treated	Acute	> 5,01 mg/l	dust/mist			Expert judgement
with	toxicity					
Hexamethyldisilazane -	estimate					
Nano	(ATE)					
7631-86-9						
Dimethylaminoethanol	LC50	1641 ppm	vapour	4 d	rat	OECD Guideline 403 (Acute
108-01-0						Inhalation Toxicity)
Dimethylaminoethanol	Acute	6,1 mg/l	vapour			Expert judgement
108-01-0	toxicity					
	estimate					
	(ATE)					

Skin corrosion/irritation:

Causes skin irritation.

Hazardous substances	Result	Exposure	Species	Method
CAS-No.		time		
Reaction mass of 2-ethyl-2-[[3-(2-methylaziridin-1-yl)propionyl]methyl]prop ane-1,3-diyl bis(2-methylaziridine-1-propionate) and 2,2-bis({[3-(2-methylaziridin-1-yl)propanoyl]oxy}methyl) butyl-3-2,2-bis({[3-(2-methylaziridin-1-yl)propanoyl]oxy}methyl)bu toxy]	not irritating	4 h	rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Silica, surface treated with Hexamethyldisilazane - Nano 7631-86-9	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2,5,8,11,14- Pentaoxapentadecane 143-24-8	slightly irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Dimethylaminoethanol 108-01-0	corrosive		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

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Serious eye damage/irritation:

Causes serious eye damage.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
	C-4 1	ume	rabbit	OECD Codd-line 405 (A costs Feed Institution / Commercial)
Reaction mass of 2-ethyl-	Category 1		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
2-[[3-(2-methylaziridin-1-	(irreversible			
yl)propionyl]methyl]prop	effects on the			
ane-1,3-diyl bis(2-	eye)			
methylaziridine-1-				
propionate) and 2,2-				
bis({[3-(2-methylaziridin-				
1-				
yl)propanoyl]oxy}methyl)				
butyl-3-2,2-bis({[3-(2-				
methylaziridin-1-yl)				
propanoyl]oxy}methyl)bu				
toxy]			111	0000 0 11 11 405 (1
Silica, surface treated	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
with				
Hexamethyldisilazane -				
Nano				
7631-86-9				
2,5,8,11,14-	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Pentaoxapentadecane				
143-24-8				
Dimethylaminoethanol	highly		rabbit	not specified
108-01-0	irritating			

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
Reaction mass of 2-ethyl- 2-[[3-(2-methylaziridin-1- yl)propionyl]methyl]prop ane-1,3-diyl bis(2- methylaziridine-1- propionate) and 2,2- bis({[3-(2-methylaziridin-1- yl)propanoyl]oxy}methyl) butyl-3-2,2-bis({[3-(2- methylaziridin-1-yl)} propanoyl]oxy}methyl)bu toxy]	Sub-Category 1A (sensitising)	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Silica, surface treated with Hexamethyldisilazane - Nano 7631-86-9	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Dimethylaminoethanol 108-01-0	ambiguous		mouse	not specified

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Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Silica, surface treated with Hexamethyldisilazane - Nano 7631-86-9	negative	bacterial reverse mutation assay (e.g Ames test)			OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Silica, surface treated with Hexamethyldisilazane - Nano 7631-86-9	negative	in vitro mammalian chromosome aberration test			OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Silica, surface treated with Hexamethyldisilazane - Nano 7631-86-9	negative	mammalian cell gene mutation assay			OECD Guideline 490 (In Vitro Mammalian Cell Gene Mutation Tests Using the Thymidine Kinase Gene)
Dimethylaminoethanol 108-01-0	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified
Silica, surface treated with Hexamethyldisilazane - Nano 7631-86-9	negative	oral: gavage		rat	OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)

Carcinogenicity

No data available.

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
2,5,8,11,14-	NOAEL P 500 mg/kg	screening	oral: gavage	rat	OECD Guideline 421
Pentaoxapentadecane					(Reproduction /
143-24-8	NOAEL F1 250 mg/kg				Developmental Toxicity
					Screening Test)

STOT-single exposure:

No data available.

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STOT-repeated exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Reaction mass of 2-ethyl- 2-[[3-(2-methylaziridin-1- yl)propionyl]methyl]prop ane-1,3-diyl bis(2- methylaziridine-1- propionate) and 2,2- bis({[3-(2-methylaziridin-1- yl)propanoyl]oxy}methyl) butyl-3-2,2-bis({[3-(2- methylaziridin-1-yl) propanoyl]oxy}methyl)bu toxy]	LOAEL 100 mg/kg	oral: gavage	28 d daily	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
Silica, surface treated with Hexamethyldisilazane - Nano 7631-86-9	NOAEL 491,5 mg/kg	oral: feed	6 months daily	rat	not specified
Silica, surface treated with Hexamethyldisilazane - Nano 7631-86-9	NOAEL 0,01 mg/kg	inhalation: dust	12 months 6 h/d, 5 d/wk	rat	not specified
Silica, surface treated with Hexamethyldisilazane - Nano 7631-86-9	NOAEL 0,01 mg/kg	inhalation: dust	12 months 6 h/d, 5 d/wk	monkey	not specified
Dimethylaminoethanol 108-01-0	NOAEL 0,18	oral: feed	90 days daily	rat	not specified
Dimethylaminoethanol 108-01-0	NOAEL 24 mg/l	inhalation	13 weeks 6 h/d, 5 d/w	rat	not specified

Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable

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SECTION 12: Ecological information

General ecological information:

Do not empty into drains / surface water / ground water.

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Reaction mass of 2-ethyl-2- [[3-(2-methylaziridin-1- yl)propionyl]methyl]propane- 1,3-diyl bis(2-methylaziridine- 1-propionate) and 2,2-bis({[3- (2-methylaziridin-1- yl)propanoyl]oxy}methyl)buty 1-3-2,2-bis({[3-(2- methylaziridin-1-yl) propanoyl]oxy}methyl)butoxy]	LC50	> 100 mg/l	96 h	Cyprinus carpio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Silica, surface treated with Hexamethyldisilazane - Nano 7631-86-9	LC50	> 10.000 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Lithium tri-sec- butylhydroborate 38721-52-7	LC50	41 mg/l	96 h	Ptychocheilus oregonensis	OECD Guideline 203 (Fish, Acute Toxicity Test)
Dimethylaminoethanol 108-01-0	LC50	81 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)

Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Reaction mass of 2-ethyl-2- [[3-(2-methylaziridin-1- yl)propionyl]methyl]propane- 1,3-diyl bis(2-methylaziridine- 1-propionate) and 2,2-bis({[3- (2-methylaziridin-1- yl)propanoyl]oxy}methyl)buty l-3-2,2-bis({[3-(2- methylaziridin-1-yl) propanoyl]oxy}methyl)butoxy]	EC50	81 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Silica, surface treated with Hexamethyldisilazane - Nano 7631-86-9	EC50	> 1.000 mg/l	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2,5,8,11,14- Pentaoxapentadecane 143-24-8	EC50	7.467 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Lithium tri-sec- butylhydroborate 38721-52-7	EC50	40,4 mg/l	48 h	Ceriodaphnia sp.	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Dimethylaminoethanol 108-01-0	EC50	98,77 mg/l	48 h	Daphnia magna	EU Method C.2 (Acute Toxicity for Daphnia)

Chronic toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

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Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Silica, surface treated with	NOEC	132,7 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia
Hexamethyldisilazane - Nano					magna, Reproduction Test)
7631-86-9					

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Reaction mass of 2-ethyl-2- [[3-(2-methylaziridin-1- yl)propionyl]methyl]propane- 1,3-diyl bis(2-methylaziridine- 1-propionate) and 2,2-bis({[3- (2-methylaziridin-1- yl)propanoyl]oxy]methyl)buty 1-3-2,2-bis({[3-(2- methylaziridin-1-yl) propanoyl]oxy}methyl)butoxy	NOEC	0,92 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Reaction mass of 2-ethyl-2- [[3-(2-methylaziridin-1- yl)propionyl]methyl]propane- 1,3-diyl bis(2-methylaziridine- 1-propionate) and 2,2-bis({[3- (2-methylaziridin-1- yl)propanoyl]oxy}methyl)buty l-3-2,2-bis({[3-(2- methylaziridin-1-yl) propanoyl]oxy}methyl)butoxy	EC50	5,5 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Silica, surface treated with Hexamethyldisilazane - Nano 7631-86-9	EC50	> 173,1 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Silica, surface treated with Hexamethyldisilazane - Nano 7631-86-9	NOEC	173,1 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
2,5,8,11,14- Pentaoxapentadecane 143-24-8	NOEC	< 625 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2,5,8,11,14- Pentaoxapentadecane 143-24-8	EC50	8.996 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Dimethylaminoethanol 108-01-0	EC50	35 mg/l	72 h	Scenedesmus sp.	OECD Guideline 201 (Alga, Growth Inhibition Test)

Toxicity (microorganisms):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Silica, surface treated with	EC50	> 2.500 mg/l	3 h	activated sludge of a	OECD Guideline 209
Hexamethyldisilazane - Nano				predominantly domestic sewage	(Activated Sludge,
7631-86-9					Respiration Inhibition Test)
Dimethylaminoethanol	EC10	> 8.000 mg/l	16 h		not specified
108-01-0					_

12.2. Persistence and degradability

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The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Reaction mass of 2-ethyl-2- [[3-(2-methylaziridin-1- yl)propionyl]methyl]propane- 1,3-diyl bis(2-methylaziridine- 1-propionate) and 2,2-bis({[3- (2-methylaziridin-1- yl)propanoyl]oxy}methyl)buty 1-3-2,2-bis({[3-(2- methylaziridin-1-yl) propanoyl]oxy}methyl)butoxy	under test conditions no biodegradation observed	aerobic	1 %	29 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
2,5,8,11,14- Pentaoxapentadecane 143-24-8		aerobic	< 20 %	20 d	OECD 301 A - F
Lithium tri-sec- butylhydroborate 38721-52-7	not readily biodegradable.	no data	< 60 %		OECD 301 A - F
Dimethylaminoethanol 108-01-0	inherently biodegradable	aerobic	> 90 %	13 d	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
Dimethylaminoethanol 108-01-0	readily biodegradable	aerobic	60,5 %	14 day	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))

12.3. Bioaccumulative potential

No substance data available. No data available. SDS No.: 196346 V001.1 Page 18 of 21

12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	LogPow	Temperature	Method
CAS-No.	,	_	
Reaction mass of 2-ethyl-2- [[3-(2-methylaziridin-1- yl)propionyl]methyl]propane- 1,3-diyl bis(2-methylaziridine- 1-propionate) and 2,2-bis({[3- (2-methylaziridin-1- yl)propanoyl]oxy}methyl)buty 1-3-2,2-bis({[3-(2- methylaziridin-1-yl) propanoyl]oxy}methyl)butoxy	1,4	20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
2,5,8,11,14- Pentaoxapentadecane 143-24-8	-0,84	23 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Dimethylaminoethanol 108-01-0	-0,55	23 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	PBT / vPvB
CAS-No.	
Reaction mass of 2-ethyl-2-[[3-(2-methylaziridin-1-yl)propionyl]methyl]propane-	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
1,3-diyl bis(2-methylaziridine-1-propionate) and	Dioaccumulative (vi vb) effectia.
2,2-bis({[3-(2-methylaziridin-1-	
yl)propanoyl]oxy}methyl)butyl-3-2,2-bis({[3-	
(2-methylaziridin-1-yl)	
propanoyl]oxy}methyl)butoxy]	
Silica, surface treated with	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
Hexamethyldisilazane - Nano	Bioaccumulative (vPvB) criteria.
7631-86-9	
2,5,8,11,14-Pentaoxapentadecane	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
143-24-8	Bioaccumulative (vPvB) criteria.
Lithium tri-sec-butylhydroborate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
38721-52-7	Bioaccumulative (vPvB) criteria.
Dimethylaminoethanol	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
108-01-0	Bioaccumulative (vPvB) criteria.

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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Product disposal:

Do not empty into drains / surface water / ground water.

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Waste code

08 04 09* waste adhesives and sealants containing organic solvents and other dangerous substances

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

SECTION 14: Transport information

14.1. UN number or ID number

ADR	3082
RID	3082
ADN	3082
IMDG	3082
IATA	3082

14.2. UN proper shipping name

ADK ENVIRONMENTALLI HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reactio	ADR	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N	N.O.S. (F	Reaction
--	-----	--	-----------	----------

mass of TMP-methylaziridinylpropanoate)

RID ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction

mass of TMP-methylaziridinylpropanoate)

ADN ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction

mass of TMP-methylaziridinylpropanoate)

IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction

mass of TMP-methylaziridinylpropanoate)

IATA Environmentally hazardous substance, liquid, n.o.s. (Reaction mass of TMP-

methylaziridinylpropanoate)

14.3. Transport hazard class(es)

ADR	9
RID	9
ADN	9
IMDG	9
IATA	9

14.4. Packing group

ADR	III
RID	III
ADN	III
IMDG	III
IATA	III

14.5. Environmental hazards

Environmentally Hazardous
Environmentally Hazardous
Environmentally Hazardous

IMDG Marine Pollutant

IATA Environmentally Hazardous

14.6. Special precautions for user

ADR not applicable

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Tunnelcode:
RID not applicable
ADN not applicable
IMDG not applicable
IATA not applicable

The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), A197 (IATA), 2.10.2.7 (IMDG), NZ 4.3(10) may be applied, which can result in a deviation from the transport classification for packed goods.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): Persistent organic pollutants (Regulation (EU) 2019/1021): Not applicable Not applicable Not applicable

VOC content (2010/75/EC) < 3 %

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

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SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text

of all abbreviations indicated by codes in this safety data sheet are as follows:

H226 Flammable liquid and vapour.

H260 In contact with water releases flammable gases which ignite spontaneously.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H331 Toxic if inhaled.

H341 Suspected of causing genetic defects.

H360FD May damage fertility. May damage the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

ED: Substance identified as having endocrine disrupting properties

EU OEL: Substance with a Union workplace exposure limit
EU EXPLD 1: Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2 Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC: Substance of very high concern (REACH Candidate List)
PBT: Substance fulfilling persistent, bioaccumulative and toxic criteria

PBT/vPvB: Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very

bioaccumulative criteria

vPvB: Substance fulfilling very persistent and very bioaccumulative criteria

Further information:

This Safety Data Sheet has been produced for sales from Henkel to parties purchasing from Henkel, is based on Regulation (EC) No 1907/2006 and provides information in accordance with applicable regulations of the European Union only. In that respect, no statement, warranty or representation of any kind is given as to compliance with any statutory laws or regulations of any other jurisdiction or territory other than the European Union. When exporting to territories other than the European Union, please consult with the respective Safety Data Sheet of the concerned territory to ensure compliance or liaise with Henkel's Product Safety and Regulatory Affairs Department (SDSinfo.Adhesive@henkel.com) prior to export to other territories than the European Union.

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Dear Customer,

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Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.



LOCTITE AA 3038 Comp. B

Safety Data Sheet according to (EC) No 1907/2006 as amended Page 1 of 23

SDS No.: 235646

V001.1 Revision: 06.09.2024

printing date: 25.01.2025

Replaces version from: 13.06.2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

LOCTITE AA 3038 Comp. B

UFI: WFD3-A066-7008-0KKA

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use:

Acrylic Adhesive

1.3. Details of the supplier of the safety data sheet

Henkel Ltd

Adhesives

Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website www.mysds.henkel.com or www.henkel-adhesives.com.

1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Serious eye damage Category 1

H318 Causes serious eye damage.

Skin sensitizer Category 1

H317 May cause an allergic skin reaction.

Toxic to reproduction Category 1B

H360D May damage the unborn child.

Chronic hazards to the aquatic environment Category 3

H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label elements (CLP):

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Hazard pictogram:



Contains Tetrahydrofurfuryl methacrylate

2-Ethylhexyl methacrylate

Methacryloyloxyethyl succinate

2,2'-Ethylenedioxydiethyl dimethacrylate

2-Hydroxyethyl methacrylate

methyl methacrylate

Signal word: Danger

Hazard statement: H360D May damage the unborn child.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Supplemental information Restricted to professional users.

Precautionary statement:

Prevention

P201 Obtain special instructions before use. P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement:

Response

P308+P313 IF exposed or concerned: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

2.3. Other hazards

None if used properly.

Following substances are present in a concentration ≥ the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration \geq the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M- factors and ATEs	Add. Information
Tetrahydrofurfuryl methacrylate 2455-24-5 219-529-5 01-2120748481-53	50- 100 %	Skin Sens. 1, H317 Repr. 1B, H360D Aquatic Chronic 3, H412		
2-Ethylhexyl methacrylate 688-84-6 211-708-6 01-2119490166-35	5-< 10 %	Skin Sens. 1B, H317 STOT SE 3, H335 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412	STOT SE 3; H335; C >= 10 %	
Methacryloyloxyethyl succinate 20882-04-6 244-096-4 01-2120137902-58	5-< 10 %	Skin Sens. 1, H317 Eye Dam. 1, H318		
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0 203-652-6 01-2119969287-21	1-< 5 %	Skin Sens. 1B, H317	dermal:ATE = > 5.000 mg/kg inhalation:ATE = 28,17 mg/l;dust/mist	
2-Hydroxyethyl methacrylate 868-77-9 212-782-2 01-2119490169-29	0,1-< 1 %	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319		
Tetrahydrofurfuryl alcohol 97-99-4 202-625-6	0,1-< 0,3 %	Eye Irrit. 2, H319 Repr. 1B, H360		
methyl methacrylate 80-62-6 201-297-1 01-2119452498-28	0,1-< 1 %	Flam. Liq. 2, H225 STOT SE 3, H335 Skin Irrit. 2, H315 Skin Sens. 1, H317		EU OEL

If no ATE values are displayed, please refer to LD/LC50 values in Section 11. For full text of the H - statements and other abbreviations see section 16 "Other information".

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Move to fresh air. If symptoms persist, seek medical advice.

Skin contact:

Rinse with running water and soap.

Obtain medical attention if irritation persists.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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

SKIN: Rash, Urticaria.

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

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

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

water, carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Additional information:

In case of fire, keep containers cool with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Wear protective equipment.

Ensure adequate ventilation.

Keep away from sources of ignition.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Dispose of contaminated material as waste according to Section 13.

For small spills wipe up with paper towel and place in container for disposal.

For large spills absorb onto inert absorbent material and place in sealed container for disposal.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid skin and eye contact.

See advice in section 8

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

Good industrial hygiene practices should be observed.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, well-ventilated place.

Refer to Technical Data Sheet.

7.3. Specific end use(s)

Acrylic Adhesive

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Great Britain

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Regulatory list
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS, INHALABLE DUST]		6	Time Weighted Average (TWA):		EH40 WEL
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS, RESPIRABLE DUST]		2,4	Time Weighted Average (TWA):		EH40 WEL
Silicon dioxide 112945-52-5 [Dust, respirable dust]		4	Time Weighted Average (TWA):		EH40 WEL
Silicon dioxide 112945-52-5 [Dust, inhalable dust]		10	Time Weighted Average (TWA):		EH40 WEL
Ethene, homopolymer 9002-88-4 [DUST, INHALABLE DUST]		10	Time Weighted Average (TWA):		EH40 WEL
Ethene, homopolymer 9002-88-4 [DUST, RESPIRABLE DUST]		4	Time Weighted Average (TWA):		EH40 WEL
Methyl methacrylate 80-62-6 [METHYL METHACRYLATE]	50	208	Time Weighted Average (TWA):		EH40 WEL
Methyl methacrylate 80-62-6 [METHYL METHACRYLATE]	100		Short Term Exposure Limit (STEL):	Indicative	ECTLV
Methyl methacrylate 80-62-6 [METHYL METHACRYLATE]	50		Time Weighted Average (TWA):	Indicative	ECTLV
Methyl methacrylate 80-62-6 [METHYL METHACRYLATE]	100	416	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL

Occupational Exposure Limits

Valid for

Ireland

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS]		6	Time Weighted Average (TWA):		IR_OEL
[Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS]		2,4	Time Weighted Average (TWA):		IR_OEL
Silicon dioxide 112945-52-5 [DUSTS NON-SPECIFIC]		10	Time Weighted Average (TWA):		IR_OEL
Silicon dioxide 112945-52-5 [DUSTS NON-SPECIFIC]		4	Time Weighted Average (TWA):		IR_OEL
Ethene, homopolymer 9002-88-4 [DUSTS NON-SPECIFIC]		10	Time Weighted Average (TWA):		IR_OEL
Ethene, homopolymer 9002-88-4 [DUSTS NON-SPECIFIC]		4	Time Weighted Average (TWA):		IR_OEL
Methyl methacrylate 80-62-6	50		Time Weighted Average (TWA):	Indicative OELV	IR_OEL

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[METHYL METHACRYLATE]		
Methyl methacrylate	100	Short Term Exposure Indicative ECTLV
80-62-6		Limit (STEL):
[METHYL METHACRYLATE]		
Methyl methacrylate	50	Time Weighted Average Indicative ECTLV
80-62-6		(TWA):
[METHYL METHACRYLATE]		
Methyl methacrylate	100	Short Term Exposure 15 minutes IR_OEL
80-62-6		Limit (STEL): Indicative OELV
[METHYL METHACRYLATE]		

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Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks	
	1		mg/l	ppm	mg/kg	others		
Tetrahydrofurfuryl methacrylate	aqua		0,347 mg/l					
2455-24-5 Tetrahydrofurfuryl methacrylate	(freshwater) aqua (marine		0,035 mg/l					
2455-24-5	water)		0,033 mg/1					
Tetrahydrofurfuryl methacrylate	sewage		15,8 mg/l					
2455-24-5	treatment plant (STP)							
Tetrahydrofurfuryl methacrylate 2455-24-5	sediment (freshwater)				2,12 mg/kg			
Tetrahydrofurfuryl methacrylate 2455-24-5	sediment (marine water)				0,212 mg/kg			
Tetrahydrofurfuryl methacrylate 2455-24-5	aqua (intermittent releases)		0,347 mg/l					
Tetrahydrofurfuryl methacrylate 2455-24-5	Soil				0,221 mg/kg			
2-Ethylhexyl methacrylate 688-84-6	aqua (freshwater)		0,003 mg/l		6 6			
2-Ethylhexyl methacrylate 688-84-6	aqua (marine water)		0 mg/l					
2-Ethylhexyl methacrylate 688-84-6	sediment (freshwater)				2,24 mg/kg			
2-Ethylhexyl methacrylate	sediment				0,224			
688-84-6 2-Ethylhexyl methacrylate	(marine water) sewage	 	10 mg/l		mg/kg	 		
688-84-6	treatment plant (STP)		To mg/T					
2-Ethylhexyl methacrylate 688-84-6	Soil				0,446 mg/kg			
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	aqua (freshwater)		0,164 mg/l					
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	aqua (marine water)		0,0164 mg/l					
2,2'-Ethylenedioxydiethyl dimethacrylate	sewage		10 mg/l					
109-16-0	treatment plant (STP)							
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	aqua (intermittent releases)		0,164 mg/l					
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	sediment (freshwater)				1,85 mg/kg			
2,2'-Ethylenedioxydiethyl dimethacrylate	sediment				0,185			
109-16-0	(marine water)				mg/kg			
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	Soil				0,274 mg/kg			
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	Air						no hazard identified	
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	Predator						no potential for bioaccumulation	
2-Hydroxyethyl methacrylate 868-77-9	aqua (freshwater)		0,482 mg/l					
2-Hydroxyethyl methacrylate 868-77-9	aqua (marine water)		0,482 mg/l					
2-Hydroxyethyl methacrylate 868-77-9	sewage treatment plant		10 mg/l					
2-Hydroxyethyl methacrylate 868-77-9	(STP) aqua (intermittent releases)		1 mg/l					
2-Hydroxyethyl methacrylate 868-77-9	sediment (freshwater)				3,79 mg/kg			
2-Hydroxyethyl methacrylate 868-77-9	sediment (marine water)				3,79 mg/kg			
2-Hydroxyethyl methacrylate	Soil				0,476			
868-77-9 2-Hydroxyethyl methacrylate	Predator				mg/kg		no potential for	
868-77-9 2-Hydroxyethyl methacrylate	Marine water -		1 mg/l	1			bioaccumulation	

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868-77-9	intermittent			
Tetrahydrofurfuryl alcohol 97-99-4	aqua (freshwater)	1,9 mg/l		
Tetrahydrofurfuryl alcohol 97-99-4	aqua (intermittent releases)	0,917 mg/l		
Tetrahydrofurfuryl alcohol 97-99-4	aqua (marine water)	0,19 mg/l		
Tetrahydrofurfuryl alcohol 97-99-4	sewage treatment plant (STP)	10 mg/l		
Tetrahydrofurfuryl alcohol 97-99-4	sediment (freshwater)		8,6 mg/kg	
Tetrahydrofurfuryl alcohol 97-99-4	sediment (marine water)		0,86 mg/kg	
Tetrahydrofurfuryl alcohol 97-99-4	Soil		0,6 mg/kg	
methyl methacrylate 80-62-6	aqua (freshwater)	0,94 mg/l		
methyl methacrylate 80-62-6	aqua (marine water)	0,94 mg/l		
methyl methacrylate 80-62-6	aqua (intermittent releases)	0,94 mg/l		
methyl methacrylate 80-62-6	sewage treatment plant (STP)	10 mg/l		
methyl methacrylate 80-62-6	sediment (freshwater)		5,74 mg/kg	
methyl methacrylate 80-62-6	Soil		1,47 mg/kg	

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Derived No-Effect Level (DNEL):

Tetrahydrofurfuryl methacrylate 2455-24-5 Tetrahydrofurfuryl methacrylate 2455-24-5	Workers	inhalation				1
	1		Long term exposure -		3,53 mg/m3	
	337 1	1 1	systemic effects		1 /	
2433 24 3	Workers	dermal	Long term exposure -		1 mg/kg	
			systemic effects			
Tetrahydrofurfuryl methacrylate	General	inhalation	Long term		0,87 mg/m3	
2455-24-5	population		exposure -		, ,	
			systemic effects			
Tetrahydrofurfuryl methacrylate	General	dermal	Long term		0,5 mg/kg	
2455-24-5	population		exposure -			
Tetrahydrofurfuryl methacrylate	General	oral	systemic effects Long term		0,5 mg/kg	
2455-24-5	population	Oran	exposure -		0,5 mg/kg	
2.60 2.70	population		systemic effects			
2-Ethylhexyl methacrylate	worker	dermal	Long term		5 mg/kg	
688-84-6			exposure -			
			systemic effects			
2,2'-Ethylenedioxydiethyl dimethacrylate	Workers	inhalation	Long term		48,5 mg/m3	no hazard identified
109-16-0			exposure - systemic effects			
2,2'-Ethylenedioxydiethyl dimethacrylate	Workers	dermal	Long term		13,9 mg/kg	no hazard identified
109-16-0	Workers	dermai	exposure -		13,7 mg/kg	no nazara racharica
			systemic effects			
2,2'-Ethylenedioxydiethyl dimethacrylate	General	inhalation	Long term		14,5 mg/m3	no hazard identified
109-16-0	population		exposure -			
			systemic effects			
2,2'-Ethylenedioxydiethyl dimethacrylate	General	dermal	Long term		8,33 mg/kg	no hazard identified
109-16-0	population		exposure - systemic effects			
2,2'-Ethylenedioxydiethyl dimethacrylate	General	oral	Long term		8,33 mg/kg	no hazard identified
109-16-0	population	oran	exposure -		o,ss mg ng	no nazara radiarioa
	1 1		systemic effects			
2-Hydroxyethyl methacrylate	Workers	dermal	Long term		1,3 mg/kg	no potential for
868-77-9			exposure -			bioaccumulation
2-Hydroxyethyl methacrylate	Workers	Inhalation	systemic effects Long term		4.0 mg/m ²	no notantial for
2-riydroxyethyr methacryrate 868-77-9	WOIKEIS	Illinaration	exposure -		4,9 mg/m3	no potential for bioaccumulation
300 11 7			systemic effects			
2-Hydroxyethyl methacrylate	General	dermal	Long term		0,83 mg/kg	no potential for
868-77-9	population		exposure -			bioaccumulation
	G 1		systemic effects		20 / 2	110
2-Hydroxyethyl methacrylate 868-77-9	General	Inhalation	Long term		2,9 mg/m3	no potential for bioaccumulation
508-77-9	population		exposure - systemic effects			bioaccumulation
2-Hydroxyethyl methacrylate	General	oral	Long term		0,83 mg/kg	no potential for
868-77-9	population		exposure -		*,*** ****	bioaccumulation
			systemic effects			
Tetrahydrofurfuryl alcohol	Workers	inhalation	Long term		1,4 mg/m3	
97-99-4			exposure -			
Tetrahydrofurfuryl alcohol	Workers	inhalation	systemic effects Acute/short term	+	1,4 mg/m3	
97-99-4	VV OINCIS	iiiiaiatiOii	exposure -		1,7 mg/m3	
			systemic effects			
Tetrahydrofurfuryl alcohol	Workers	dermal	Long term		0,35 mg/kg	
97-99-4			exposure -			
	*** 1	1, ,	systemic effects		0.25 "	
Tetrahydrofurfuryl alcohol 97-99-4	Workers	dermal	Acute/short term exposure -		0,35 mg/kg	
71-77 -4			exposure - systemic effects			
Tetrahydrofurfuryl alcohol	General	inhalation	Long term		0,25 mg/m3	
97-99-4	population		exposure -		, , _ , _ , _ , _ , _ , _ , _ , _ , _ ,	
			systemic effects			
Tetrahydrofurfuryl alcohol	General	inhalation	Acute/short term		0,25 mg/m3	
97-99-4	population		exposure -			
Totroby deafurfured alaskal	Ganara1	dama a1	systemic effects	1	0.175	
Tetrahydrofurfuryl alcohol 97-99-4	General population	dermal	Long term exposure -		0,175 mg/kg	
/ I / / T	Population		systemic effects			

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Tetrahydrofurfuryl alcohol 97-99-4	General population	dermal	Acute/short term exposure - systemic effects	0,175 mg/kg	
Tetrahydrofurfuryl alcohol 97-99-4	General population	oral	Long term exposure - systemic effects	0,175 mg/kg	
Tetrahydrofurfuryl alcohol 97-99-4	General population	oral	Acute/short term exposure - systemic effects	0,175 mg/kg	
methyl methacrylate 80-62-6	Workers	Inhalation	Long term exposure - systemic effects	348,4 mg/m3	
methyl methacrylate 80-62-6	Workers	Inhalation	Long term exposure - local effects	208 mg/m3	
methyl methacrylate 80-62-6	Workers	inhalation	Acute/short term exposure - local effects	416 mg/m3	
methyl methacrylate 80-62-6	Workers	dermal	Long term exposure - systemic effects	13,67 mg/kg	
methyl methacrylate 80-62-6	Workers	dermal	Long term exposure - local effects	1,5 mg/cm2	
methyl methacrylate 80-62-6	Workers	dermal	Acute/short term exposure - local effects	1,5 mg/cm2	
methyl methacrylate 80-62-6	General population	Inhalation	Long term exposure - systemic effects	74,3 mg/m3	
methyl methacrylate 80-62-6	General population	Inhalation	Long term exposure - local effects	104 mg/m3	
methyl methacrylate 80-62-6	General population	inhalation	Acute/short term exposure - local effects	208 mg/m3	
methyl methacrylate 80-62-6	General population	dermal	Long term exposure - systemic effects	8,2 mg/kg	
methyl methacrylate 80-62-6	General population	dermal	Long term exposure - local effects	1,5 mg/cm2	
methyl methacrylate 80-62-6	General population	dermal	Acute/short term exposure - local effects	1,5 mg/cm2	
methyl methacrylate 80-62-6	General population	oral	Long term exposure - systemic effects		

Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls:

Ensure good ventilation/extraction.

Respiratory protection:

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area

Filter type: A (EN 14387)

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Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eve protection:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing. Protective eye equipment should conform to EN166.

Skin protection:

Wear suitable protective clothing.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

liquid Delivery form Colour yellowish Odor mild, Acrylic Physical state liauid

Melting point Not applicable, Product is a liquid

Solidification temperature < -30 °C (< -22 °F) Initial boiling point $> 100 \, ^{\circ}\text{C} \, (> 212 \, ^{\circ}\text{F})$

Flammability The product is not flammable.

Explosive limits Not applicable, The product is not flammable.

> 100 °C (> 212 °F) Flash point

Not applicable, The product is not flammable. Auto-ignition temperature

Not applicable, Substance/mixture is not self-reactive, no organic Decomposition temperature peroxide and does not decompose under foreseen conditions of use

Not applicable, Product is non-soluble (in water).

Viscosity (kinematic) > 20.5 mm2/s

(40 °C (104 °F);)

Viscosity, dynamic 6.000,0 - 18.000,0 mPa.s LCT STM 740; cone & plate viscosity

(Cone and plate; 25 °C (77 °F); Shear gradient: 20

рΗ

Solubility (qualitative) Not miscible or difficult to mix

(20 °C (68 °F); Solvent: Water)

Solubility (qualitative) Soluble

(20 °C (68 °F); Solvent: Acetone)

Partition coefficient: n-octanol/water Not applicable Mixture

Vapour pressure < 1 hPa(20 °C (68 °F))

Density 1,02 g/cm3 None

(20 °C (68 °F))

Relative vapour density: > 1

(20 °C)

Particle characteristics Not applicable Product is a liquid

9.2. Other information

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Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with strong oxidants.

Acids.

Reducing agents.

Strong bases.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Stable under normal conditions of storage and use.

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

carbon oxides.

Hydrocarbons

nitrogen oxides

Rapid polymerisation may generate excessive heat and pressure.

SECTION 11: Toxicological information

General toxicological information:

Prolonged or repeated contact may cause skin irritation.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
Tetrahydrofurfuryl	LD50	3.945 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
methacrylate				
2455-24-5				
2-Ethylhexyl methacrylate	LD0	> 2.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
688-84-6				
2-Ethylhexyl methacrylate	LD50	> 2.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
688-84-6				
Methacryloyloxyethyl	LD50	> 2.000 mg/kg	rat	OECD Guideline 423 (Acute Oral toxicity)
succinate				
20882-04-6				
2,2'-Ethylenedioxydiethyl	LD50	10.837 mg/kg	rat	not specified
dimethacrylate				
109-16-0				
2-Hydroxyethyl	LD50	5.564 mg/kg	rat	FDA Guideline
methacrylate				
868-77-9				
Tetrahydrofurfuryl	LD50	> 2.000 mg/kg	rat	OECD Guideline 423 (Acute Oral toxicity)
alcohol				
97-99-4				
methyl methacrylate	LD50	9.400 mg/kg	rat	not specified
80-62-6				

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Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
2-Ethylhexyl methacrylate 688-84-6	LD50	> 20.000 mg/kg	rat	not specified
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	Acute toxicity estimate (ATE)	> 5.000 mg/kg		Expert judgement
2-Hydroxyethyl methacrylate 868-77-9	LD50	> 5.000 mg/kg	rabbit	not specified
methyl methacrylate 80-62-6	LD50	> 5.000 mg/kg	rabbit	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)

Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Test atmosphere	Exposure	Species	Method
CAS-No.	type			time		
2,2'-Ethylenedioxydiethyl	Acute	28,17 mg/l	dust/mist			Expert judgement
dimethacrylate	toxicity					
109-16-0	estimate					
	(ATE)					
methyl methacrylate	LC50	29,8 mg/l	vapour	4 h	rat	not specified
80-62-6			_			-

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Tetrahydrofurfuryl methacrylate 2455-24-5	not irritating	24 h	rabbit	Draize Test
Methacryloyloxyethyl succinate 20882-04-6	not irritating	0,25 h	Human, EPISKIIN TM Reconstituted Human Epidermis model	OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method)
Methacryloyloxyethyl succinate 20882-04-6	not corrosive	4 h	Human, EPISKIIN TM Reconstituted Human Epidermis model	OECD Guideline 431 (In Vitro Skin Corrosion: Reconstructed Human Epidermis (RHE) Test Method)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	not irritating	24 h	rabbit	Draize Test
2-Hydroxyethyl methacrylate 868-77-9	slightly irritating	24 h	rabbit	Draize Test
Tetrahydrofurfuryl alcohol 97-99-4	not irritating	4 h	rabbit	EPA OPP 81-5 (Acute Dermal Irritation)

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Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Tetrahydrofurfuryl methacrylate 2455-24-5	not irritating		rabbit	Draize Test
Methacryloyloxyethyl succinate 20882-04-6	Category I	10 min	Bovine, cornea, in vitro test	OECD Guideline 437 (BCOP)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
2-Hydroxyethyl methacrylate 868-77-9	Category 2B (mildly irritating to eyes)		rabbit	Draize Test
Tetrahydrofurfuryl alcohol 97-99-4	irritating		rabbit	EPA OPP 81-4 (Acute Eye Irritation)

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances	Result	Test type	Species	Method
CAS-No.				
Tetrahydrofurfuryl	sensitising	Patch-Test	human	not specified
methacrylate 2455-24-5				
Tetrahydrofurfuryl methacrylate 2455-24-5	sensitising	Direct peptide reactivity assay (DPRA)	cysteine and lysine, in chemico test	not specified
2-Ethylhexyl methacrylate 688-84-6	sensitising	Guinea pig maximisation test	guinea pig	Magnusson and Kligman Method
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
2-Hydroxyethyl methacrylate 868-77-9	not sensitising	Buehler test	guinea pig	Buehler test
2-Hydroxyethyl methacrylate 868-77-9	sensitising	Guinea pig maximisation test	guinea pig	Magnusson and Kligman Method
Tetrahydrofurfuryl alcohol 97-99-4	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
methyl methacrylate 80-62-6	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

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Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
2-Ethylhexyl methacrylate 688-84-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Methacryloyloxyethyl succinate 20882-04-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	negative	in vitro mammalian cell micronucleus test	with and without		OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)
2-Hydroxyethyl methacrylate 868-77-9	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2-Hydroxyethyl methacrylate 868-77-9	positive	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
2-Hydroxyethyl methacrylate 868-77-9	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Tetrahydrofurfuryl alcohol 97-99-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Tetrahydrofurfuryl alcohol 97-99-4	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Tetrahydrofurfuryl alcohol 97-99-4	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
methyl methacrylate 80-62-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified
2-Hydroxyethyl methacrylate 868-77-9	negative	oral: gavage		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
2-Hydroxyethyl methacrylate 868-77-9	negative	oral: gavage		Drosophila melanogaster	not specified

Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
2-Hydroxyethyl methacrylate 868-77-9	not carcinogenic	inhalation	2 y 6 h/d, 5 d/w	rat	female	equivalent or similar OECD Guideline 451 (Carcinogenicity Studies)
2-Hydroxyethyl methacrylate 868-77-9	not carcinogenic	inhalation	2 y 6 h/d, 5 d/w	rat	male	equivalent or similar OECD Guideline 451 (Carcinogenicity Studies)

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Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances	Result / Value	Test type	Route of	Species	Method
CAS-No.			application		
Tetrahydrofurfuryl methacrylate 2455-24-5	NOAEL P 300 mg/kg	screening	oral: gavage	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	NOAEL P 1.000 mg/kg NOAEL F1 1.000 mg/kg		oral: gavage	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
2-Hydroxyethyl methacrylate 868-77-9	NOAEL P $>= 1.000 \text{ mg/kg}$ NOAEL F1 $>= 1.000 \text{ mg/kg}$	screening	oral: gavage	rat	equivalent or similar to OECD Guideline 422 (Combined Repeated Dose Toxicity Study)

STOT-single exposure:

No data available.

STOT-repeated exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Tetrahydrofurfuryl methacrylate 2455-24-5	NOAEL 300 mg/kg	oral: gavage	29 d yes, concurrent vehicle	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	NOAEL 1.000 mg/kg	oral: gavage	daily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
2-Hydroxyethyl methacrylate 868-77-9	NOAEL 100 mg/kg	oral: gavage	49 d daily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
2-Hydroxyethyl methacrylate 868-77-9	NOAEL 0,352 mg/l	inhalation	90 d 6 h/d, 5 d/w	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
Tetrahydrofurfuryl alcohol 97-99-4	NOAEL 500 ppm	oral: feed	91-93 d daily	rat	not specified
Tetrahydrofurfuryl alcohol 97-99-4	NOAEL 1000 ppm	oral: feed	91-93 d daily	rat	not specified
methyl methacrylate 80-62-6	LOAEL 2000 ppm	inhalation	14 weeks 6 hrs/day, 5 days/wk	mouse	Dose Range Finding Study
methyl methacrylate 80-62-6	NOAEL 1000 ppm	inhalation	14 weeks 6 hrs/day, 5 days/wk	mouse	Dose Range Finding Study

Aspiration hazard:

No data available.

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11.2 Information on other hazards

not applicable

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SECTION 12: Ecological information

General ecological information:

Do not empty into drains / surface water / ground water.

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Tetrahydrofurfuryl methacrylate 2455-24-5	LC50	34,7 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-Ethylhexyl methacrylate 688-84-6	LC50	2,78 mg/l	96 h	Oryzias latipes	OECD Guideline 203 (Fish, Acute Toxicity Test)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	LC50	16,4 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-Hydroxyethyl methacrylate 868-77-9	LC50	> 100 mg/l	96 h	Oryzias latipes	OECD Guideline 203 (Fish, Acute Toxicity Test)
Tetrahydrofurfuryl alcohol 97-99-4	LC50	> 101 mg/l	96 h	Oryzias latipes	OECD Guideline 203 (Fish, Acute Toxicity Test)
methyl methacrylate 80-62-6	LC50	350 mg/l	96 h	Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)

Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
2-Ethylhexyl methacrylate	EC50	4,56 mg/l	48 h	Daphnia magna	OECD Guideline 202
688-84-6					(Daphnia sp. Acute
					Immobilisation Test)
Methacryloyloxyethyl	EC50	> 515,4 mg/l	48 h	Daphnia magna	OECD Guideline 202
succinate					(Daphnia sp. Acute
20882-04-6					Immobilisation Test)
2-Hydroxyethyl methacrylate	EC50	380 mg/l	48 h	Daphnia magna	OECD Guideline 202
868-77-9					(Daphnia sp. Acute
					Immobilisation Test)
methyl methacrylate	EC50	69 mg/l	48 h	Daphnia magna	EPA OTS 797.1300
80-62-6					(Aquatic Invertebrate Acute
					Toxicity Test, Freshwater
					Daphnids)

Chronic toxicity (aquatic invertebrates):

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Tetrahydrofurfuryl methacrylate 2455-24-5	NOEC	37,2 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
2-Ethylhexyl methacrylate 688-84-6	NOEC	0,105 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	NOEC	32 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
2-Hydroxyethyl methacrylate 868-77-9	NOEC	24,1 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

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methyl methacrylate	NOEC	37 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia
80-62-6					magna, Reproduction Test)

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Tetrahydrofurfuryl methacrylate 2455-24-5	EC50	> 100 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Tetrahydrofurfuryl methacrylate 2455-24-5	NOEC	> 100 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Ethylhexyl methacrylate 688-84-6	EC50	7,68 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Ethylhexyl methacrylate 688-84-6	NOEC	0,28 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Methacryloyloxyethyl succinate 20882-04-6	EC50	> 312 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Methacryloyloxyethyl succinate 20882-04-6	NOEC	21,1 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	EC50	> 100 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	NOEC	18,6 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Hydroxyethyl methacrylate 868-77-9	EC50	836 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Hydroxyethyl methacrylate 868-77-9	NOEC	400 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
methyl methacrylate 80-62-6	EC50	170 mg/l	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
methyl methacrylate 80-62-6	NOEC	100 mg/l	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)

Toxicity (microorganisms):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
2-Hydroxyethyl methacrylate	EC0	> 3.000 mg/l	16 h	Pseudomonas fluorescens	other guideline:
868-77-9					
methyl methacrylate	EC20	> 150 - 200 mg/l	30 min	activated sludge, domestic	ISO 8192 (Test for
80-62-6					Inhibition of Oxygen
					Consumption by Activated
					Sludge)

12.2. Persistence and degradability

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The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Tetrahydrofurfuryl methacrylate 2455-24-5	not readily biodegradable.	aerobic	75 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
2-Ethylhexyl methacrylate 688-84-6	readily biodegradable	aerobic	88 %	28 d	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
Methacryloyloxyethyl succinate 20882-04-6	readily biodegradable, but failing 10-day window	aerobic	80 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	readily biodegradable	aerobic	85 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
2-Hydroxyethyl methacrylate 868-77-9	readily biodegradable	aerobic	92 - 100 %	14 d	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
Tetrahydrofurfuryl alcohol 97-99-4	readily biodegradable	aerobic	92 %	28 d	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
methyl methacrylate 80-62-6	readily biodegradable	aerobic	94 %	14 d	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))

12.3. Bioaccumulative potential

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Bioconcentratio	Exposure time	Temperature	Species	Method
CAS-No.	n factor (BCF)				
2-Ethylhexyl methacrylate	37	56 h	24 °C	Danio rerio	OECD Guideline 305
688-84-6					(Bioconcentration: Flow-through
					Fish Test)

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12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	LogPow	Temperature	Method
CAS-No.			
Tetrahydrofurfuryl methacrylate 2455-24-5	1,76		EU Method A.8 (Partition Coefficient)
2-Ethylhexyl methacrylate 688-84-6	4,95	20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Methacryloyloxyethyl succinate 20882-04-6	0,783	23 °C	EU Method A.8 (Partition Coefficient)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	2,3		OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
2-Hydroxyethyl methacrylate 868-77-9	0,42	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Tetrahydrofurfuryl alcohol 97-99-4	-0,14	24,7 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
methyl methacrylate 80-62-6	1,38	20 °C	other guideline:

12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	PBT / vPvB
CAS-No.	
Tetrahydrofurfuryl methacrylate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
2455-24-5	Bioaccumulative (vPvB) criteria.
2-Ethylhexyl methacrylate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
688-84-6	Bioaccumulative (vPvB) criteria.
2,2'-Ethylenedioxydiethyl dimethacrylate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
109-16-0	Bioaccumulative (vPvB) criteria.
2-Hydroxyethyl methacrylate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
868-77-9	Bioaccumulative (vPvB) criteria.
Tetrahydrofurfuryl alcohol	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
97-99-4	Bioaccumulative (vPvB) criteria.
methyl methacrylate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
80-62-6	Bioaccumulative (vPvB) criteria.

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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Product disposal:

Do not empty into drains / surface water / ground water.

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Waste code

08 04 09* waste adhesives and sealants containing organic solvents and other dangerous substances The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

SECTION 14: Transport information

14.1. UN number or ID number

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.2. UN proper shipping name

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.3. Transport hazard class(es)

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.4. Packing group

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.5. **Environmental hazards**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.6. Special precautions for user

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): Persistent organic pollutants (Regulation (EU) 2019/1021):

Not applicable Not applicable Not applicable

VOC content (2010/75/EC)

< 3 %

15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

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SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H225 Highly flammable liquid and vapour.

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.

H360 May damage fertility or the unborn child.

H360D May damage the unborn child.

H412 Harmful to aquatic life with long lasting effects.

ED: Substance identified as having endocrine disrupting properties

EU OEL: Substance with a Union workplace exposure limit
EU EXPLD 1: Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2 Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC: Substance of very high concern (REACH Candidate List)
PBT: Substance fulfilling persistent, bioaccumulative and toxic criteria

PBT/vPvB: Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very

bioaccumulative criteria

vPvB: Substance fulfilling very persistent and very bioaccumulative criteria

Further information:

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