

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

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SDS No.: 168434

V008.0 Revision: 18.03.2022

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Replaces version from: 07.12.2021

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

#### 1.1. Product identifier

LOCTITE AA 326 known as Loctite 326

LOCTITE AA 326 known as Loctite 326

### 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

HP24RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000 Fax-no.: +44 (1442) 278071

ua-productsafety.uk@henkel.com

For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection 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):

Skin irritation Category 2

H315 Causes skin irritation.

Serious eye irritation Category 2

H319 Causes serious eye irritation.

Skin sensitizer Category 1

H317 May cause an allergic skin reaction.

Specific target organ toxicity - single exposure Category 3

H335 May cause respiratory irritation.

Target organ: respiratory tract irritation

Chronic hazards to the aquatic environment Category 3

H412 Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

### Label elements (CLP):

Hazard pictogram:



**Contains** 

 $2\hbox{-Hy}\,droxy\,ethy\,l\,methacry\,late$ 

 $Hy\,droxy\,p\,rop\,yl\,methacry\,late$ 

Acrylic acid

Acetic acid, 2-phenylhydrazide

2-Propenoic acid, 2-methyl-, 2-(2-hydroxyethoxy)ethylester

Signal word:	Warning
Hazard statement:	H315 Causes skin irritation.
	H317 May cause an allergic skin reaction.
	H319 Causes serious eye irritation.
	H335 May cause respiratory irritation.
	H412 Harmful to aquatic life with long lasting effects.
-	
Precautionary statement:	"***" ***For consumer use only: P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P501 Dispose of contents/container in accordance with national regulation.***
Precautionary statement:	P280 Wear protective gloves.
Prevention	P261 Avoid breathing vapors.

Precautionary statement:	P302+P352 IF ON SKIN: Wash with plenty of soap and water.
Response	P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
_	D327   D313 If avairritation parsists: Gat madical advice/attention

P273 Avoid release to the environment.

### 2.3. Other hazards

None if used properly.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

Following substances are present in a concentration >= 0.1% and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

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

# **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

### General chemical description:

Acrylate adhesive

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

Hazardous components CAS-No.	Concentration	Classification	Specific Conc. Limits, M- factors and ATEs	Add. Information
EC Number REACH-Reg No.			factors and A les	miormation
2-Hydroxyethyl methacrylate 868-77-9 212-782-2 01-2119490169-29	20- 40 %	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319		
Isobornyl methacrylate 7534-94-3 231-403-1 01-2119886505-27	10- 20 %	Aquatic Chronic 3, H412 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	STOT SE 3; H335; C >= 10 %	
Hydroxypropyl methacrylate 27813-02-1 248-666-3 01-2119490226-37	1-< 5 %	Skin Sens. 1, H317 Eye Irrit. 2, H319		
Acrylic acid 79-10-7 201-177-9 01-2119452449-31	0,25-< 2,5 %	Acute Tox. 4, Dermal, H312 Skin Corr. 1A, H314 Flam. Liq. 3, H226 Acute Tox. 4, Oral, H302 Acute Tox. 4, Inhalation, H332 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 STOT SE 3, H335	STOT SE 3; H335; C >= 1 %  =====  M acute = 1  =====  dermal:ATE = 1.100 mg/kg inhalation:ATE=11 mg/l;vapour	EU OEL
Cumene hydroperoxide 80-15-9 201-254-7 01-2119475796-19	0,1-< 1 %	STOT RE 2, H373 Skin Corr. 1B, H314 Acute Tox. 2, Inhalation, H330 Aquatic Chronic 2, H411 Acute Tox. 4, Oral, H302 Acute Tox. 4, Dermal, H312 Org. Perox. E, H242 STOT SE 3, H335	Skin Irrit. 2; H315; C3 - < 10 % Eye Dam. 1; H318; C3 - < 10 % Eye Irrit. 2; H319; C1 - < 3 % Skin Corr. 1B; H314; C>= 10 % STOT SE 3; H335; C>= 1 % ====== dermal:ATE = 1.100 mg/kg	
methacrylic acid 79-41-4 201-204-4 01-2119463884-26	0,1-< 1 %	Acute Tox. 4, Oral, H302 Acute Tox. 3, Dermal, H311 Acute Tox. 4, Inhalation, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335	STOT SE 3; H335; C >= 1 % ======  dermal:ATE = 500 mg/kg inhalation:ATE = 3,61 mg/l;	
Acetic acid, 2-phenylhydrazide 114-83-0 204-055-3	0,1-< 1 %	Acute Tox. 3, Oral, H301 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 STOT SE 3, Inhalation, H335 Carc. 2, H351		
2-Propenoic acid, 2-methyl-, 2- (2-hydroxyethoxy)ethyl ester 2351-43-1	0,1-< 1 %	Eye Irrit. 2, H319 Skin Sens. 1, H317		

 $For full text of the \ H-statements \ and \ other \ abbreviations \ see section \ 16 \ ''Other \ information''.$  Substances without classification may have community workplace exposure limits available.

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

Inhalation:

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

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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: Redness, inflammation.

SKIN: Rash, Urticaria.

EYE: Irritation, conjunctivitis.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

### 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.

# $\textbf{7.2. Conditions for safe storage, including any incompatibilities} \\ Ensure good ventilation/extraction.$

Refer to Technical Data Sheet

# 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

In gre dient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category/Remarks	Regulatory list
Acrylic acid 79-10-7 [ACRYLIC ACID (PROP-2-ENOIC	10	29	Time Weighted Average (TWA):	Indicative	ECTLV
ACID)]					
Acrylic acid	20	59	Short Term Exposure	Indicative	ECTLV
79-10-7			Limit (STEL):		
[ACRYLIC ACID (PROP-2-ENOIC ACID)]					
Acrylic acid	10	29	Time Weighted Average		EH40 WEL
79-10-7			(TWA):		
[ACRYLIC ACID]					
Acrylic acid	20	59	Short Term Exposure	1 minute	EH40 WEL
79-10-7			Limit (STEL):		
[Acrylic acid]					
Methacrylic acid	20	72	Time Weighted Average		EH40 WEL
79-41-4			(TWA):		
[METHACRYLIC ACID]					
Methacrylic acid	40	143	Short Term Exposure	15 minutes	EH40 WEL
79-41-4			Limit (STEL):		
[METHACRYLIC ACID]					

# Occupational Exposure Limits

Valid for

Ireland

In gredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category/Remarks	Regulatorylist
Acrylic acid 79-10-7 [ACRYLIC ACID (PROP-2-ENOIC ACID)]	10	29	Time Weighted Average (TWA):	Indicative	ECTLV
Acrylic acid 79-10-7 [ACRYLIC ACID (PROP-2-ENOIC ACID)]	20	59	Short Term Exposure Limit (STEL):	Indicative	ECTLV
Acrylic acid 79-10-7 [ACRYLIC ACID]	20	59	Short Term Exposure Limit (STEL):	1 minute Indicative OELV	IR_OEL
Acrylic acid 79-10-7 [ACRYLIC ACID]	10	29	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
Methacrylic acid 79-41-4 [METHACRYLIC ACID]	20	70	Time Weighted Average (TWA):		IR_OEL
Methacrylic acid 79-41-4 [METHACRYLIC ACID]	40	140	Short Term Exposure Limit (STEL):	15 minutes	IR_OEL

# $\label{eq:predicted} \textbf{Predicted No-Effect Concentration (PNEC):}$

Name on list	Environmental Compartment		Value				Remarks
	Comparument	perrou	mg/l	ppm	mg/kg	others	
2-Hydroxyethyl methacrylate	aqua		0,482 mg/l	PP		oure is	
868-77-9	(freshwater)						
2-Hydroxyethyl methacrylate 868-77-9	aqua (marine water)		0,482 mg/l				
2-Hydroxyethyl methacrylate	sewage		10 mg/l				
868-77-9	treatment plant		Tomgi				
	(STP)						
2-Hydroxyethyl methacrylate	aqua		1 mg/l				
868-77-9	(intermittent releases)						
2-Hydroxyethyl methacrylate	sediment				3,79 mg/kg		
868-77-9	(freshwater)						
2-Hydroxyethyl methacrylate	sediment				3,79 mg/kg		
868-77-9 2-Hydroxyethyl methacrylate	(marine water) Soil				0,476		
868-77-9	Son				mg/kg		
2-Hydroxyethyl methacrylate	Predator						no potential for
868-77-9	26 :		1 /				bioaccumulation
2-Hydroxyethyl methacrylate 868-77-9	Marine water - intermittent		1 mg/l				
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl	aqua		4,66 µg/l				
methacrylate	(freshwater)						
7534-94-3 Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl	Coil			ļ	0.110		
methacrylate	Soil			1	0,118 mg/kg		
7534-94-3					mg kg		
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl	sewage		2,45 mg/l				
methacrylate	treatment plant						
7534-94-3 Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl	(STP) sediment				0,604		
methacrylate	(freshwater)				mg/kg		
7534-94-3	(iresir mater)				ing ing		
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl	aqua		0,0179				
methacrylate 7534-94-3	(intermittent releases)		mg/l				
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl	aqua (marine		0.000466				
methacrylate	water)		mg/l				
7534-94-3							
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl	sediment				0,06 mg/kg		
methacrylate 7534-94-3	(marine water)						
Methacrylic acid, monoester with propane-	aqua		0,904 mg/l				
1,2-diol	(freshwater)						
27813-02-1			0.004 #				
Methacrylic acid, monoester with propane- 1,2-diol	aqua (marine water)		0,904 mg/l				
27813-02-1	water)						
Methacrylic acid, monoester with propane-	sewage		10 mg/l				
1,2-diol   27813-02-1	treatment plant (STP)						
Methacrylic acid, monoester with propane-	aqua		0,972 mg/l				
1,2-dio1	(intermittent		0,772 mg1				
27813-02-1	releases)						
Methacrylic acid, monoester with propane- 1,2-diol	sediment (freshwater)				6,28 mg/kg		
27813-02-1	(freshwater)						
Methacrylic acid, monoester with propane-	sediment				6,28 mg/kg		
1,2-diol	(marine water)						
27813-02-1 Methacrylic acid, monoester with propane-	Soil		1	1	0,727		
1,2-diol	3011				mg/kg		
27813-02-1	<u> </u>						
Methacrylic acid, monoester with propane-	Marine water -		0,972 mg/l				
1,2-diol 27813-02-1	intermittent						
Methacrylic acid, monoester with propane-	Air		1	-			no hazard identified
1,2-diol				1			no nazara raditinoa
27813-02-1							
Methacrylic acid, monoester with propane-	Predator			1			no potential for
1,2-diol				<u> </u>			bioaccumulation

27813-02-1	1 1	I I	1 1	I
Acrylic acid	aqua	0,003 mg/l		
79-10-7	(freshwater)	0,000 11121		
Acrylic acid	aqua (marine	0,0003	+	
79-10-7	water)	mg/l		
Acrylic acid	sewage	0,9 mg/l		
79-10-7	treatment plant	0,9 mg/1		
/9-10-/	(STP)			
Acrylic acid	sediment		0,0236	
79-10-7	(freshwater)		mg/kg	
Acrylic acid	sediment		0,00236	
79-10-7	(marine water)		mg/kg	
Acrylic acid	Soil		1 mg/kg	
79-10-7				
Acrylic acid	oral		0,03 g/kg	
79-10-7			0,00 g ng	
Acrylic acid	Air			no hazard identified
79-10-7	7 111			no nazara lacitimos
.alpha.,.alphaDimethylbenzyl	agua	0.0031	+	
hydroperoxide	(freshwater)	mg/l		
80-15-9	(iicsiiwatci)	mg/i		
.alpha.,.alphaDimethylbenzyl	aqua (marine	0,00031		
hydroperoxide	water)	mg/l		
80-15-9	water)	IIIg/I		
.alpha.,.alphaDimethylbenzyl		0.021 /		
	aqua (intermittent	0,031 mg/l		
hydroperoxide				
80-15-9	releases)	0.25		
.alpha.,.alphaDimethylbenzyl	Sewage	0,35 mg/l		
hydroperoxide	treatment plant			
80-15-9				
.alpha.,.alphaDimethylbenzyl	sediment		0,023	
hydroperoxide	(freshwater)		mg/kg	
80-15-9				
.alpha.,.alphaDimethylbenzyl	sediment		0,0023	
hydroperoxide	(marine water)		mg/kg	
80-15-9				
.alpha.,.alphaDimethylbenzyl	Soil		0,0029	
hydroperoxide			mg/kg	
80-15-9				
methacrylicacid	aqua	0,82 mg/l		
79-41-4	(freshwater)			
methacrylicacid	aqua (marine	0,82 mg/l		
79-41-4	water)			
methacrylicacid	sewage	10 mg/l		
79-41-4	treatment plant			
	(STP)			
methacrylic acid	aqua	0,82 mg/l		
79-41-4	(intermittent			
	releases)			
	Soil	+ +	1,2 mg/kg	
methacrylic acid	2011		11.2 HI2/K2	

# Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
2-Hydroxyethyl methacrylate 868-77-9	Workers	dermal	Long term exposure - systemic effects		1,3 mg/kg	no potential for bioaccumulation
2-Hydroxyethyl methacrylate 868-77-9	Workers	Inhalation	Long term exposure - systemic effects		4,9 mg/m3	no potential for bioaccumulation
2-Hydroxyethyl methacrylate 868-77-9	General population	dermal	Long term exposure - systemic effects		0,83 mg/kg	no potential for bioaccumulation
2-Hydroxyethyl methacrylate 868-77-9	General population	Inhalation	Long term exposure - systemic effects		2,9 mg/m3	no potential for bioaccumulation
2-Hydroxyethyl methacrylate 868-77-9	General population	oral	Long term exposure - systemic effects		0,83 mg/kg	no potential for bioaccumulation
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate 7534-94-3	Workers	dermal	Long term exposure - systemic effects		1,04 mg/kg	
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate 7534-94-3	General population	dermal	Long term exposure - systemic effects		0,625 mg/kg	
Methacrylic acid, monoester with propane- 1,2-diol 27813-02-1	Workers	dermal	Long term exposure - systemic effects		4,2 mg/kg	no hazard identified
Methacrylic acid, monoester with propane- 1,2-diol 27813-02-1	Workers	Inhalation	Long term exposure - systemic effects		14,7 mg/m3	no hazard identified
Methacrylic acid, monoester with propane- 1,2-diol 27813-02-1	General population	dermal	Long term exposure - systemic effects		2,5 mg/kg	no hazard identified
Methacrylic acid, monoester with propane- 1,2-diol 27813-02-1	General population	Inhalation	Long term exposure - systemic effects		8,8 mg/m3	no hazard identified
Methacrylic acid, monoester with propane- 1,2-diol 27813-02-1	General population	oral	Long term exposure - systemic effects		2,5 mg/kg	no hazard identified
Acrylic acid 79-10-7	Workers	inhalation	Long term exposure - local effects		30 mg/m3	no hazard identified
Acrylic acid 79-10-7	Workers	inhalation	Acute/short term exposure - local effects		30 mg/m3	no hazard identified
Acrylic acid 79-10-7	Workers	dermal	Acute/short term exposure - local effects		1 mg/cm2	no hazard identified
Acrylic acid 79-10-7	General population	dermal	Acute/short term exposure - local effects		1 mg/cm2	no hazard identified
Acrylic acid 79-10-7	General population	inhalation	Acute/short term exposure - local effects		3,6 mg/m3	no hazard identified
Acrylic acid 79-10-7	General population	inhalation	Long term exposure - local effects		3,6 mg/m3	no hazard identified
.alpha.,.alphaDimethylbenzyl hydroperoxide 80-15-9	Workers	inhalation	Long term exposure - systemic effects		6 mg/m3	
methacrylicacid 79-41-4	Workers	Inhalation	Long term exposure - local effects		88 mg/m3	
methacrylic acid 79-41-4	Workers	Inhalation	Long term exposure - systemic effects		29,6 mg/m3	
methacrylic acid 79-41-4	Workers	dermal	Long term exposure - systemic effects		4,25 mg/kg	
methacrylic acid 79-41-4	General population	Inhalation	Long term exposure - local effects		6,55 mg/m3	
methacrylic acid 79-41-4	General population	Inhalation	Long term exposure -		6,3 mg/m3	

1					
			systemic effects		
methacrylic acid	General	dermal	Longterm	2,55 mg/kg	
79-41-4	population		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)

### 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.

### 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

Physical state liquid
Delivery form liquid
Colour amber
Odor irritating

Solidification temperature  $$<0\ ^{\circ}\text{C}\ (<32\ ^{\circ}\text{F})$$  Initial boiling point  $$>149\ ^{\circ}\text{C}\ (>300.2\ ^{\circ}\text{F})$$ 

Flammability The product is not flammable.

Flash point > 93,3 °C (> 199.94 °F); Tagliabue closed cup pH Not applicable, Product is non-soluble (in water).

Viscosity (kinematic) 15.000 - 17.000 mm2/s

(40 °C (104 °F); )

Solubility (qualitative) Slight

(20 °C (68 °F); Solvent: Water)

Partition coefficient: n-octanol/water Not applicable

Mixture

Vapour pressure < 13 mbar

(26,6 °C (79.9 °F)) Vapour pressure

< 1,3 kPa

(20 °C (68 °F)) Density

1,0 g/cm3 None

(20 °C (68 °F))

Relative vapour density:

Not applicable, Heavier than air

### 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.

# **SECTION 11: Toxicological information**

# 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 CAS-No.	Value type	Value	Species	Method
2-Hydroxyethyl methacrylate 868-77-9	LD50	5.564 mg/kg	rat	FDA Guideline
Isobornyl methacrylate 7534-94-3	LD50	3.160 mg/kg	rat	not specified
Hydroxypropyl methacrylate 27813-02-1	LD50	> 2.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Acrylic acid 79-10-7	LD50	1.500 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
Cumene hydroperoxide 80-15-9	LD50	382 mg/kg	rat	other guideline:
methacrylic acid 79-41-4	LD50	1.320 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
Acetic acid, 2- phenylhydrazide 114-83-0	LD50	270 mg/kg	rat	not specified
2-Propenoic acid, 2- methyl-, 2-(2- hydroxyethoxy)ethyl ester 2351-43-1	LD50	5.564 mg/kg	rat	FDA Guideline

# 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-Hydroxyethyl	LD50	> 5.000 mg/kg	rabbit	not specified
methacrylate				
868-77-9				
Isobornyl methacrylate	LD50	> 3.000 mg/kg	rabbit	not specified
7534-94-3				
Hydroxypropyl	LD50	> 5.000 mg/kg	rabbit	not specified
methacrylate				
27813-02-1				
Acrylic acid	Acute	1.100 mg/kg		Expert judgement
79-10-7	toxicity			
	estimate			
	(ATE)			
Acrylic acid	LD50	> 2.000 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
79-10-7				
Cumene hydroperoxide	Acute	1.100 mg/kg		Expert judgement
80-15-9	toxicity			
	estimate			
	(ATE)			
methacrylic acid	LD50	500 - 1.000	rabbit	Dermal Toxicity Screening
79-41-4		mg/kg		
methacrylic acid	Acute	500 mg/kg		Expert judgement
79-41-4	toxicity			
	estimate			
	(ATE)			
2-Propenoic acid, 2-	LD50	> 5.000 mg/kg	rabbit	not specified
methyl-, 2-(2-				•
hydroxyethoxy)ethyl ester				
2351-43-1				
L	1			1

# 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		
Acrylic acid 79-10-7	LC0	5,1 mg/l	vapour	4 h	rat	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
Acrylic acid 79-10-7	Acute toxicity estimate (ATE)	11 mg/l	vapour			Expert judgement
Cumene hydroperoxide 80-15-9	LC50	1,370 mg/l	vapour	4 h	rat	not specified
methacrylic acid 79-41-4	LC50	> 3,6 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
methacrylic acid 79-41-4	Acute toxicity estimate (ATE)	3,61 mg/l				Expert judgement

### 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
2-Hydroxyethyl methacrylate 868-77-9	slightly irritating	24 h	rabbit	Draize Test
Isobornyl methacrylate 7534-94-3	mildly irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Hydroxypropyl methacrylate 27813-02-1	not irritating	24 h	rabbit	Draize Test
Acrylic acid 79-10-7	Category 1 (corrosive)	3 min	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Cumene hydroperoxide 80-15-9	corrosive		rabbit	Draize Test
methacrylic acid 79-41-4	corrosive	3 min	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2-Propenoic acid, 2- methyl-, 2-(2- hydroxyethoxy)ethyl ester 2351-43-1	not irritating	24 h	rabbit	Draize Test

# 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
2-Hydroxyethyl met hacrylate 868-77-9	Category 2B (mildly irritating to eyes)		rabbit	Draize Test
Hydroxypropyl methacrylate 27813-02-1	Category 2B (mildly irritating to eyes)		rabbit	Draize Test
Acrylic acid 79-10-7	Category 1 (irreversible effects on the eye)		rabbit	BASF Test
methacrylic acid 79-41-4	corrosive		rabbit	Draize Test
2-Propenoic acid, 2- methyl-, 2-(2- hydroxyethoxy)ethyl ester 2351-43-1	irritating		rabbit	Draize Test

# ${\bf Respiratory\ or\ skin\ sensitization:}$

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
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
Isobornyl methacrylate 7534-94-3	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Hydroxypropyl methacrylate 27813-02-1	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Hydroxypropyl methacrylate 27813-02-1	sensitising	Guinea pig maximisation test	guinea pig	not specified
Acrylic acid 79-10-7	not sensitising	Freund's complete adjuvant test	guinea pig	Klecak Method
Acrylic acid 79-10-7	not sensitising	Split adjuvant test	guinea pig	Maguire Method
methacrylic acid 79-41-4	not sensitising	Buehler test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)

# 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	Metabolic activation/	Species	Method
2. Hydnoyyyathad	n a gati	administration bacterial reverse	Exposure time with and without	1	OECD Guideline 471
2-Hydroxyethyl	negative		with and without		
methacrylate 868-77-9		mutation assay (e.g Ames test)			(Bacterial Reverse Mutation Assay)
2-Hydroxyethyl	positive	in vitro mammalian	with and without		OECD Guideline 473 (In vitro
methacrylate		chromosome			Mammalian Chromosome
868-77-9		aberration test			Aberration Test)
2-Hydroxyethyl	negative	mammalian cell	with and without		OECD Guideline 476 (In vitro
methacrylate		gene mutation assay			Mammalian Cell Gene
868-77-9					Mutation Test)
Isobornyl methacrylate	negative	bacterial reverse	with and without		OECD Guideline 471
7534-94-3		mutation assay (e.g			(Bacterial Reverse Mutation
		Ames test)			Assay)
Isobornyl methacrylate	negative		with and without		OECD Guideline 476 (In vitro
7534-94-3					Mammalian Cell Gene
To be seen to see the see			with and without	1	Mutation Test)  OECD Guideline 473 (In vitro
Isobornyl methacrylate 7534-94-3	negative	in vitro mammalian	with and without		Mammalian Chromosome
/334-94-3		aberration test			Aberration Test)
Hydroxypropyl	negative	bacterial reverse	with and without		OECD Guideline 471
methacrylate	negative	mutation assay (e.g	with and without		(Bacterial Reverse Mutation
27813-02-1		Ames test)			Assay)
Hydroxypropyl	positive	in vitro mammalian	with and without		Chromosome Aberration Test
methacrylate	Positive	chromosome	with and without		Cin omosome riseriation rest
27813-02-1		aberration test			
Hydroxypropyl	negative	mammalian cell	with and without		OECD Guideline 476 (In vitro
methacrylate		gene mutation assay			Mammalian Cell Gene
27813-02-1					Mutation Test)
Acrylic acid	negative	bacterial reverse	with and without		equivalent or similar to OECD
79-10-7		mutation assay (e.g			Guideline 471 (Bacterial
		Ames test)			Reverse Mutation Assay)
Acrylic acid	negative	mammalian cell	with and without		equivalent or similar to OECD
79-10-7		gene mutation assay			Guideline 476 (In vitro
					Mammalian Cell Gene
		DNA 1	*.1		Mutation Test)
Acrylic acid 79-10-7	negative	DNA damage and	without		equivalent or similar to OECD Guideline 482 (Genetic
/9-10-/		repair assay, unscheduled DNA			Toxicology: DNA Damage
		synthesis in			and Repair, Unscheduled
		mammalian cells in			DNA Synthesis in Mammalian
		vitro			Cells
Cumene hydroperoxide	positive	bacterial reverse	without		OECD Guideline 471
80-15-9	r	mutation assay (e.g			(Bacterial Reverse Mutation
		Ames test)		1	Assay)
methacrylic acid	negative	bacterial reverse	with and without		equivalent or similar to OECD
79-41-4	=	mutation assay (e.g			Guideline 471 (Bacterial
		Ames test)		1	Reverse Mutation Assay)

# 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)
Hydroxypropyl methacrylate 27813-02-1	not carcinogenic	inhalation	2 y 6 h/d, 5 d/w	rat	male	equivalent or similar OECD Guideline 451 (Carcinogenicity Studies)
Acrylic acid 79-10-7	not carcinogenic	oral: drinking water	26 - 28 m continuously	rat	male/female	OECD Guideline 451 (Carcinogenicity Studies)
Acrylic acid 79-10-7	not carcinogenic	dermal	21 m 3 times/w	mouse	male/female	not specified
methacrylic acid 79-41-4	not carcinogenic	inhalation	2 y	mouse	male/female	OECD Guideline 451 (Carcinogenicity Studies)

# 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-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)
Isobornyl methacrylate 7534-94-3	NOAEL P 25 mg/kg NOAEL F1 500 mg/kg		oral: gavage	rat	OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)
Hydroxypropyl methacrylate 27813-02-1	NOAEL P 300 mg/kg NOAEL F1 1.000 mg/kg	screening	oral: gavage	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction/ Developmental Toxicity Screening Test)
Hydroxypropyl methacrylate 27813-02-1	NOAEL P 400 mg/kg NOAEL F1 400 mg/kg	two- generation study	oral: gavage	rat	OECD Guideline 416 (Two- Generation Reproduction Toxicity Study)
Acrylic acid 79-10-7	NOAEL P 83 mg/kg NOAEL F1 250 mg/kg	one- generation study	oral: drinking water	rat	equivalent or similar to OECD Guideline 415 (One- Generation Reproduction Toxicity Study)
Acrylic acid 79-10-7	NOAEL P 240 mg/kg NOAEL F1 53 mg/kg NOAEL F2 53 mg/kg	two- generation study	oral: drinking water	rat	OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)
methacrylic acid 79-41-4	NOAEL P 50 mg/kg NOAEL F1 400 mg/kg NOAEL F2 400 mg/kg	Two generation study	oral: gavage	rat	OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)

# $STOT\text{-}single\,exposure:\\$

No data available.

# $STOT\text{-}repeated\,exposure::\\$

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
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)
Hydroxypropyl methacrylate 27813-02-1	NOAEL 300 mg/kg	oral: gavage	49 d daily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Hydroxypropyl methacrylate 27813-02-1	NOAEL 0,352 mg/l	inhalation	90 d 6 h/d, 5 d/w	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
Acrylic acid 79-10-7	NOAEL 40 mg/kg	oral: drinking water	12 m daily	rat	equivalent or similar to OECD Guideline 452 (Chronic Toxicity Studies)
Acrylic acid 79-10-7	NOAEL 0,015 mg/l	inhalation: vapour	90 d 6 h/d, 5 d/w	mouse	equivalent or similar to OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
Cumene hydroperoxide 80-15-9		inhalation: aerosol	6 h/d 5 d/w	rat	not specified
methacrylic acid 79-41-4		inhalation	90 d 6 h/d, 5 d/w	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)

# Aspiration hazard:

No data available.

# 11.2 Information on other hazards

not applicable

# **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.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
2-Hydroxyethyl methacrylate 868-77-9	LC50	> 100 mg/l	96 h	Oryzias latipes	OECD Guideline 203 (Fish, Acute Toxicity Test)
Isobornyl methacrylate 7534-94-3	LC50	1,79 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Hydroxypropyl methacrylate 27813-02-1	LC50	493 mg/l	48 h	Leuciscus idus melanotus	DIN 38412-15
Acrylic acid 79-10-7	LC50	27 mg/l	96 h	Salmo gairdneri (new name: Oncorhynchus mykiss)	EPA OT S 797.1400 (Fish Acute Toxicity Test)
Acrylic acid 79-10-7	NOEC	>= 10,1 mg/l	45 d	Oryzias latipes	OECD Guideline 210 (fish early lite stage toxicity test)
Cumene hydroperoxide 80-15-9	LC50	3,9 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
methacrylic acid 79-41-4	LC50	85 mg/l	96 h	Salmo gairdneri (new name: Oncorhynchus mykiss)	EPA OT S 797.1400 (Fish Acute Toxicity Test)

# Toxicity (Daphnia):

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

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
2-Hydroxyethyl methacrylate	EC50	380 mg/l	48 h	Daphnia magna	OECD Guideline 202
868-77-9					(Daphnia sp. Acute
					Immobilisation Test)
Isobornyl methacrylate	EC50	> 2,57 mg/l	48 h	Daphnia magna	OECD Guideline 202
7534-94-3					(Daphnia sp. Acute
					Immobilisation Test)
Hydroxypropyl methacrylate	EC50	> 143 mg/l	48 h	Daphnia magna	OECD Guideline 202
27813-02-1					(Daphnia sp. Acute
					Immobilisation Test)
Acrylic acid	EC50	95 mg/l	48 h	Daphnia magna	EPA OT S797.1300
79-10-7					(Aquatic Invertebrate Acute
					Toxicity Test, Freshwater
					Daphnids)
Cumene hydroperoxide	EC50	18,84 mg/l	48 h	Daphnia magna	OECD Guideline 202
80-15-9					(Daphnia sp. Acute
					Immobilisation Test)
methacrylic acid	EC50	> 130 mg/l	48 h	Daphnia magna	EPA OT S797.1300
79-41-4					(Aquatic Invertebrate Acute
					Toxicity Test, Freshwater
					Daphnids)

# Chronic toxicity to aquatic invertebrates

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

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
2-Hydroxyethyl methacrylate	NOEC	24,1 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia
868-77-9					magna, Reproduction Test)
Isobornyl methacrylate	NOEC	0,233 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia
7534-94-3					magna, Reproduction Test)
Hydroxypropyl methacrylate	NOEC	45,2 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia
27813-02-1					magna, Reproduction Test)
Acrylic acid	NOEC	19 mg/l	21 d	Daphnia magna	EPA OTS797.1330
79-10-7					(Daphnid Chronic Toxicity
					Test)

# **Toxicity (Algae):**

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

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
2-Hydroxyethyl methacrylate 868-77-9	EC50	836 mg/l	72 h	Selenastrum capricomutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Hydroxyethyl methacrylate 868-77-9	NOEC	400 mg/l	72 h	Selenastrum capricomutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Isobornyl methacrylate 7534-94-3	EC50	2,66 mg/l	96 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Isobornyl methacrylate 7534-94-3	NOEC	0,254 mg/l	96 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydroxypropyl methacrylate 27813-02-1	EC50	> 97,2 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydroxypropyl methacrylate 27813-02-1	NOEC	> 97,2 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Acrylic acid 79-10-7	EC10	0,03 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	EU Method C.3 (Algal Inhibition test)
Acrylic acid 79-10-7	EC50	0,13 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	EU Method C.3 (Algal Inhibition test)
Cumene hydroperoxide 80-15-9	EC50	3,1 mg/l	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Cumene hydroperoxide 80-15-9	NOEC	l mg/l	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
methacrylic acid 79-41-4	NOEC	8,2 mg/l	72 h	Selenastrum capricomutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
methacrylic acid 79-41-4	EC50	45 mg/l	72 h	Selenastrum capricomutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)

# Toxicity to microorganisms

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

Hazardous substances	Value	Value	Exposure time	Spe cies	Method
CAS-No.	type				
2-Hydroxyethyl methacrylate	EC0	> 3.000  mg/l	16 h	Pseudomonas fluorescens	other guideline:
868-77-9					
Hydroxypropyl methacrylate	EC10	1.140 mg/l	16 h		not specified
27813-02-1					
Acrylic acid	EC20	900 mg/l	30 min	activated sludge, domestic	ISO 8192 (Test for
79-10-7					Inhibition of Oxygen
					Consumption by Activated
					Sludge)
Cumene hydroperoxide	EC10	70 mg/l	30 min		not specified
80-15-9					
methacrylicacid	EC10	100 mg/l	17 h		not specified
79-41-4					

# 12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
2-Hydroxyethyl methacrylate 868-77-9	readily biodegradable	aerobic	92 - 100 %	14 d	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
Isobornyl methacrylate 7534-94-3	readily biodegradable	aerobic	70 %	28 d	OECD Guideline 310 (Ready Biodegradability CO2 in Sealed Vessels (Headspace Test)
Hydroxypropyl methacrylate 27813-02-1	readily biodegradable	aerobic	94,2 %	28 d	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)
Acrylic acid 79-10-7	inherently biodegradable	aerobic	100 %	28 d	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
Acrylic acid 79-10-7	readily biodegradable	aerobic	81 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Cumene hydroperoxide 80-15-9	not readily biodegradable.	aerobic	3 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
methacrylic acid 79-41-4	inherently biodegradable	aerobic	100 %	14 d	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
methacrylic acid 79-41-4	readily biodegradable	aerobic	86 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

# 12.3. Bioaccumulative potential

Hazardous substances CAS-No.	Bioconcentratio n factor (BCF)	Exposure time	Temperature	Species	Method
Isobornyl methacrylate 7534-94-3	37	56 day	24 °C	Danio rerio	OECD Guideline 305 E (Bioaccumulation: Flow-through Fish Test)
Acrylic acid 79-10-7	3,16				QSAR (Quantitative Structure Activity Relationship)
Cumene hydroperoxide 80-15-9	9,1			calculation	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)

# 12.4. Mobility in soil

Hazardous substances CAS-No.	LogPow	Tempe rature	Method
2-Hydroxyethyl methacrylate 868-77-9	0,42	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol/water), Shake Flask Method)
Isobornyl methacrylate 7534-94-3	5,09		OECD Guideline 117 (Partition Coefficient (n-octanol/water), HPLC Method)
Hydroxypropyl methacrylate 27813-02-1	0,97	20 °C	not specified
Acrylic acid 79-10-7	0,46	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol/water), Shake Flask Method)
Cumene hydroperoxide 80-15-9	1,6	25 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
methacrylic acid 79-41-4	0,93	22 °C	OECD Guideline 107 (Partition Coefficient (n-octanol/water), Shake Flask Method)
Acetic acid, 2- phenylhydrazide 114-83-0	0,74		not specified

### 12.5. Results of PBT and vPvB assessment

Hazardous substances	PBT/vPvB
CAS-No.	
2-Hydroxyethyl methacrylate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
868-77-9	Bioaccumulative (vPvB) criteria.
Isobornyl methacrylate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
7534-94-3	Bioaccumulative (vPvB) criteria.
Hydroxypropyl methacrylate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
27813-02-1	Bioaccumulative (vPvB) criteria.
Acrylic acid	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
79-10-7	Bioaccumulative (vPvB) criteria.
Cumene hydroperoxide	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
80-15-9	Bioaccumulative (vPvB) criteria.
methacrylic acid	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
79-41-4	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

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

ADR	Not dangerous	goods
RID	Not dangerous	goods
ADN	Not dangerous	goods
IMDG	Not dangerous	goods
IATA	Not dangerous	goods

### 14.2. UN proper shipping name

ADR	Not dangerous	goods
RID	Not dangerous	goods
ADN	Not dangerous	goods
IMDG	Not dangerous	goods
IATA	Not dangerous	goods

### 14.3. Transport hazard class(es)

ADR	Not dangerous	goods
RID	Not dangerous	goods
ADN	Not dangerous	goods
IMDG	Not dangerous	goods
IATA	Not dangerous	goods

# 14.4. Packing group

ADR	Not dangerous	goods
RID	Not dangerous	goods
ADN	Not dangerous	goods
IMDG	Not dangerous	goods
IATA	Not dangerous	goods

### 14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

### 14.6. Special precautions for user

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

# 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)

< 3,00 %

#### 15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

### **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 vapor.

H242 Heating may cause a fire.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

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

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

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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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.

# **Annex - Exposure Scenarios:**

 $Exposure\ Scenarios\ for\ 2-Hydroxyethyl\ methacrylate\ can\ be\ downloaded\ under\ the\ following\ link:\ https://mysds.henkel.com/index.html#/appSelection$