

LOCTITE 5188

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

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SDS No.: 275741 V016.1

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Replaces version from: 06.06.2023

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

1.1. Product identifier

LOCTITE 5188

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

Intended use:

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 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.

Toxic to reproduction Category 2

H361d Suspected of damaging the unborn child.

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-Hydroxyethyl methacrylate

2-Propenoic acid, 2-phenoxyethyl ester

Cumene hydroperoxide

Methacryloyloxyethyl succinate Acetic acid, 2-phenylhydrazide

Phenol, ethoxylated, esters with acrylic acid

Hydroxypropyl methacrylate Phenoxyethyl methacrylate

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.

H361d Suspected of damaging the unborn child. 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: P261 Avoid breathing vapors.

Prevention P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing.

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.

P337+P313 If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

None if used properly.

Following substances are present in a concentration \geq 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

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

Hazardous components CAS-No. EC Number	Concentration	Classification	Specific Conc. Limits, M- factors and ATEs	Add. Information
REACH-Reg No. Isobornyl methacrylate 7534-94-3 231-403-1 01-2119886505-27	10- 20 %	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 3, H412	STOT SE 3; H335; C >= 10 %	
2-Hydroxyethyl methacrylate 868-77-9 212-782-2 01-2119490169-29	5- < 10 %	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319		
Phenoxyethyl methacrylate 10595-06-9 234-201-1 01-2120752383-55	5- < 10 %	Skin Sens. 1A, H317 Aquatic Chronic 2, H411		
2-Propenoic acid, 2- phenoxyethyl ester 48145-04-6 256-360-6 01-2119980532-35	5- < 10 %	Skin Sens. 1A, H317 Repr. 2, H361d Aquatic Chronic 2, H411		
Cumene hydroperoxide 80-15-9 201-254-7 01-2119475796-19	1-< 3 %	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	Eye Irrit. 2; H319; C 1 - < 3 % Skin Irrit. 2; H315; C 3 - < 10 % Eye Dam. 1; H318; C 3 - < 10 % STOT SE 3; H335; C >= 1 % Skin Corr. 1B; H314; C >= 10 % ===== dermal:ATE = 1.100 mg/kg	
Acrylic acid 79-10-7 201-177-9 01-2119452449-31	0,1-< 1 %	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 Eye Dam. 1, H318	STOT SE 3; H335; C >= 1 % ===== M acute = 1 ===== dermal:ATE = 1.100 mg/kg inhalation:ATE = 11 mg/l;vapour	EU OEL
Methacryloyloxyethyl succinate 20882-04-6 244-096-4 01-2120137902-58	0,1-< 1 %	Skin Sens. 1, H317 Eye Dam. 1, H318		
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		
Phenol, ethoxylated, esters with acrylic acid 56641-05-5 500-133-9	0,1-< 1 %	Aquatic Chronic 2, H411 Skin Sens. 1A, H317		
Hydroxypropyl methacrylate 27813-02-1 248-666-3 01-2119490226-37	0,1-< 1 %	Skin Sens. 1, H317 Eye Irrit. 2, H319		
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;dust/mist	

1,4-Naphthalenedione	0,01-< 0,1 %	Acute Tox. 3, Oral, H301	M acute = 10	
130-15-4		Skin Corr. 1C, H314	M chronic = 1	
204-977-6		Skin Sens. 1, H317		
		Eye Dam. 1, H318		
		Acute Tox. 1, Inhalation, H330		
		STOT SE 3, H335		
		Aquatic Acute 1, H400		
		Aquatic Chronic 1, H410		

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: 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:

Good industrial hygiene practices should be observed.

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

7.2. Conditions for safe storage, including any incompatibilities

Refer to Technical Data Sheet

7.3. Specific end use(s)

Adhesive

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Great Britain

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Silane, dichlorodimethyl-, reaction products with silica 7631-86-9 [SILICA, AMORPHOUS, RESPIRABLE DUST]		2,4	Time Weighted Average (TWA):		EH40 WEL
Silane, dichlorodimethyl-, reaction products with silica 7631-86-9 [SILICA, AMORPHOUS, INHALABLE DUST]		6	Time Weighted Average (TWA):		EH40 WEL
Silane, dichlorodimethyl-, reaction products with silica 7631-86-9 [Dust, inhalable dust]		10	Time Weighted Average (TWA):		EH40 WEL
Silane, dichlorodimethyl-, reaction products with silica 7631-86-9 [Dust, respirable dust]		4	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
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]	10	29	Time Weighted Average (TWA):		EH40 WEL
Acrylic acid 79-10-7 [Acrylic acid]	20	59	Short Term Exposure Limit (STEL):	1 minute	EH40 WEL
Methacrylic acid 79-41-4 [METHACRYLIC ACID]	20	72	Time Weighted Average (TWA):		EH40 WEL
Methacrylic acid 79-41-4 [METHACRYLIC ACID]	40	143	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
Silane, dichlorodimethyl-, reaction products with silica 7631-86-9 [DUSTS NON-SPECIFIC]		10	Time Weighted Average (TWA):		IR_OEL
Silane, dichlorodimethyl-, reaction products with silica 7631-86-9 [SILICA, AMORPHOUS]		2,4	Time Weighted Average (TWA):		IR_OEL
Silane, dichlorodimethyl-, reaction products with silica		6	Time Weighted Average (TWA):		IR_OEL

SILICA, AMORPHOUS Silane, dichlorodimethyl-, reaction products with silica 7631-86-9 DUSTS NON-SPECIFIC Ethene, homopolymer		1	ı		ı	1
Silane, dichlorodimethyl-, reaction products with silica 7631-86-9 [DUSTS NON-SPECIFIC] Ethene, homopolymer 9002-88-4 [IR_OEL IR_OEL ECTLV ECTLV ECTLV Form Exposure Limit (STEL): Indicative Indicative OELV IR_OEL	7631-86-9					
with silica 7631-86-9 [DUSTS NON-SPECIFIC] Ethene, homopolymer 9002-88-4 [DUSTS NON-SPECIFIC] Ethene, homopolymer 9002-88-4 [DUSTS NON-SPECIFIC] Ethene, homopolymer 9002-88-4 [DUSTS NON-SPECIFIC] Acrylic acid 79-10-7 [ACRYLIC ACID (PROP-2-ENOIC ACID)] Acrylic acid 79-10-7 [ACRYLIC ACID] Acrylic acid 70-10-7 [ACRYL						
7631-86-9 [DUSTS NON-SPECIFIC] Ethene, homopolymer 9002-88-4 [DUSTS NON-SPECIFIC] Ethene, homopolymer 9002-88-4 [DUSTS NON-SPECIFIC] Ethene, homopolymer 9002-88-4 [DUSTS NON-SPECIFIC] Acrylic acid 79-10-7 [ACRYLIC ACID (PROP-2-ENOIC ACID)] Acrylic acid 79-10-7 [ACRYLIC ACID] Acrylic acid 79-10-7 [ACRYLIC ACID] Acrylic acid 79-10-7 [ACRYLIC ACID] Acrylic acid 10 29 Time Weighted Average [Indicative OELV IR_OEL Indicative OELV IR_OEL			4	Time Weighted Average		IR_OEL
Ethene, homopolymer 10 Time Weighted Average IR_OEL	with silica			(TWA):		
Ethene, homopolymer 9002-88-4 [DUSTS NON-SPECIFIC] Ethene, homopolymer 9002-88-4 [DUSTS NON-SPECIFIC] Ethene, homopolymer 9002-88-4 [DUSTS NON-SPECIFIC] Acrylic acid 79-10-7 [ACRYLIC ACID (PROP-2-ENOIC ACID)] Acrylic acid 79-10-7 [ACRYLIC ACID] Acrylic acid 10 29 Time Weighted Average [Indicative OELV] IR_OEL IR_OEL IR_OEL	7631-86-9					
Short Term Exposure CTWA	[DUSTS NON-SPECIFIC]					
[DUSTS NON-SPECIFIC] Ethene, homopolymer 9002-88-4 [DUSTS NON-SPECIFIC] Acrylic acid 79-10-7 [ACRYLIC ACID (PROP-2-ENOIC ACID)] Acrylic acid 79-10-7 [ACRYLIC ACID] Acrylic acid 79-10-7	Ethene, homopolymer		10	Time Weighted Average		IR_OEL
Ethene, homopolymer 9002-88-4 [DUSTS NON-SPECIFIC] Acrylic acid 79-10-7 [ACRYLIC ACID (PROP-2-ENOIC ACID)] Acrylic acid 79-10-7 [ACRYLIC ACID] Acrylic acid 79-10-7	9002-88-4			(TWA):		
9002-88-4 [DUSTS NON-SPECIFIC] Acrylic acid 79-10-7 [ACRYLIC ACID (PROP-2-ENOIC ACID)] Acrylic acid 79-10-7 [ACRYLIC ACID] Acrylic acid 79-10-7	[DUSTS NON-SPECIFIC]					
DUSTS NON-SPECIFIC Control Co	Ethene, homopolymer		4	Time Weighted Average		IR_OEL
Acrylic acid 79-10-7 [ACRYLIC ACID (PROP-2-ENOIC ACID)] Acrylic acid 79-10-7 [ACRYLIC ACID] Acrylic acid 79-10-7	9002-88-4			(TWA):		
79-10-7 [ACRYLIC ACID (PROP-2-ENOIC ACID)] Acrylic acid 79-10-7 [ACRYLIC ACID (PROP-2-ENOIC ACID)] Acrylic acid Acrylic acid 79-10-7 [ACRYLIC ACID (PROP-2-ENOIC ACID)] Acrylic acid 79-10-7 [ACRYLIC ACID] Acrylic acid 79-10-7 [ACRYLIC ACID] Acrylic acid 79-10-7 Time Weighted Average (TWA): Time Weighted Average (TWA):	[DUSTS NON-SPECIFIC]					
[ACRYLIC ACID (PROP-2-ENOIC ACID)] Acrylic acid 79-10-7 [ACRYLIC ACID (PROP-2-ENOIC ACID)] Acrylic acid 79-10-7 [ACRYLIC ACID (PROP-2-ENOIC ACID)] Acrylic acid 79-10-7 [ACRYLIC ACID] Acrylic acid 79-10-7 Time Weighted Average (TWA): Indicative OELV IR_OEL	Acrylic acid	10	29	Time Weighted Average	Indicative	ECTLV
ACID)] Acrylic acid 79-10-7 [ACRYLIC ACID (PROP-2-ENOIC ACID)] Acrylic acid 79-10-7 [ACRYLIC ACID (PROP-2-ENOIC ACID)] Acrylic acid 79-10-7 [ACRYLIC ACID] Acrylic acid 79-10-7 Acrylic acid 79-10-7	79-10-7			(TWA):		
Acrylic acid 79-10-7 [ACRYLIC ACID (PROP-2-ENOIC ACID)] Acrylic acid 79-10-7 [ACRYLIC ACID (PROP-2-ENOIC ACID)] Acrylic acid 79-10-7 [ACRYLIC ACID] Acrylic acid 79-10-7 [ACRYLIC ACID] Acrylic acid 79-10-7 [ACRYLIC ACID] Acrylic acid 79-10-7 Acrylic acid 79-10-7	[ACRYLIC ACID (PROP-2-ENOIC					
79-10-7 [ACRYLIC ACID (PROP-2-ENOIC ACID)] Acrylic acid 79-10-7 [ACRYLIC ACID] Short Term Exposure Limit (STEL): Indicative OELV IR_OEL Time Weighted Average (TWA): Imit (STEL): Indicative OELV IR_OEL	ACID)]					
79-10-7 [ACRYLIC ACID (PROP-2-ENOIC ACID)] Acrylic acid 79-10-7 [ACRYLIC ACID] Short Term Exposure Limit (STEL): Indicative OELV IR_OEL Time Weighted Average (TWA): Imit (STEL): Indicative OELV IR_OEL	Acrylic acid	20	59	Short Term Exposure	Indicative	ECTLV
ACID)] Acrylic acid 79-10-7 [ACRYLIC ACID] Acrylic acid 79-10-7 [ACRYLIC ACID] Acrylic acid 79-10-7 Acrylic acid 79-10-7 Acrylic acid 79-10-7 Acrylic acid 79-10-7	79-10-7			Limit (STEL):		
Acrylic acid 79-10-7 [ACRYLIC ACID] Acrylic acid 79-10-7 [ACRYLIC ACID] Acrylic acid 79-10-7	[ACRYLIC ACID (PROP-2-ENOIC					
79-10-7 [ACRYLIC ACID] Acrylic acid 79-10-7 Limit (STEL): Indicative OELV IR_OEL Time Weighted Average (TWA):	ACID)]					
[ACRYLIC ACID] Acrylic acid 79-10-7 10 29 Time Weighted Average (TWA): IR_OEL	Acrylic acid	20	59	Short Term Exposure	1 minute	IR_OEL
Acrylic acid 79-10-7 Time Weighted Average (TWA): Indicative OELV IR_OEL	79-10-7			Limit (STEL):	Indicative OELV	
79-10-7 (TWA):	[ACRYLIC ACID]					
	Acrylic acid	10	29	Time Weighted Average	Indicative OELV	IR_OEL
LA CDAVI IC A CIDI	79-10-7			(TWA):		
[ACKYLIC ACID]	[ACRYLIC ACID]					
Methacrylic acid 20 70 Time Weighted Average IR_OEL	Methacrylic acid	20	70	Time Weighted Average		IR_OEL
79-41-4 (TWA):	79-41-4			(TWA):		
[METHACRYLIC ACID]	[METHACRYLIC ACID]					
Methacrylic acid 40 140 Short Term Exposure 15 minutes IR_OEL	Methacrylic acid	40	140	Short Term Exposure	15 minutes	IR_OEL
	79-41-4					
[METHACRYLIC ACID]	[METHACRYLIC ACID]					

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
	, , , , , , , , , , , , , , , , , , ,	F	mg/l	ppm	mg/kg	others	
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate 7534-94-3	aqua (freshwater)		4,66 μg/l				
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate 7534-94-3	Soil				0,118 mg/kg		
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate 7534-94-3	sewage treatment plant (STP)		2,45 mg/l				
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate 7534-94-3	sediment (freshwater)				0,604 mg/kg		
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate 7534-94-3	aqua (intermittent releases)		0,0179 mg/l				
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate 7534-94-3	aqua (marine water)		0,000466 mg/l				
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate 7534-94-3	sediment (marine water)				0,06 mg/kg		
2-Hydroxyethyl methacrylate 868-77-9	aqua (freshwater)		0,482 mg/l				
2-Hydroxyethyl methacrylate 868-77-9 2-Hydroxyethyl methacrylate	aqua (marine water) sewage		0,482 mg/l 10 mg/l				
868-77-9	treatment plant (STP)		10 mg/i				
2-Hydroxyethyl methacrylate 868-77-9	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 868-77-9	Soil				0,476 mg/kg		
2-Hydroxyethyl methacrylate 868-77-9	Predator		4 0				no potential for bioaccumulation
2-Hydroxyethyl methacrylate 868-77-9	Marine water - intermittent		1 mg/l 0,0142				
2-Phenoxyethyl methacrylate 10595-06-9	aqua (freshwater)		mg/l				
2-Phenoxyethyl methacrylate 10595-06-9	aqua (intermittent releases)		0,012 mg/l				
2-Phenoxyethyl methacrylate 10595-06-9	aqua (marine water)		0,00142 mg/l				
2-Phenoxyethyl methacrylate 10595-06-9	sediment (freshwater)				0,665 mg/kg		
2-Phenoxyethyl methacrylate 10595-06-9	sediment (marine water)				0,067 mg/kg		
2-Phenoxyethyl methacrylate 10595-06-9	sewage treatment plant (STP)		1,77 mg/l				
2-Phenoxyethyl methacrylate 10595-06-9	Soil				0,125 mg/kg		
2-Phenoxyethyl acrylate 48145-04-6	aqua (freshwater)		0,002 mg/l				
2-Phenoxyethyl acrylate 48145-04-6	Soil				0,006 mg/kg		
2-Phenoxyethyl acrylate 48145-04-6	sewage treatment plant (STP)		1,77 mg/l				
2-Phenoxyethyl acrylate 48145-04-6	aqua (intermittent releases)		0,0121 mg/l				
2-Phenoxyethyl acrylate 48145-04-6	aqua (marine water)		0,0002 mg/l				

				_
2-Phenoxyethyl acrylate	sediment		0,002	
48145-04-6	(marine water)		mg/kg	
2-Phenoxyethyl acrylate 48145-04-6	sediment (freshwater)		0,02 mg/kg	
.alpha.,.alphaDimethylbenzyl	aqua	0,0031		
hydroperoxide	(freshwater)	mg/l		
80-15-9		0.021 #		
.alpha.,.alphaDimethylbenzyl hydroperoxide	aqua (intermittent	0,031 mg/l		
80-15-9	releases)			
.alpha.,.alphaDimethylbenzyl	aqua (marine	0,00031		
hydroperoxide 80-15-9	water)	mg/l		
.alpha.,.alphaDimethylbenzyl	sewage	0,35 mg/l		
hydroperoxide 80-15-9	treatment plant (STP)	0,55 mg/1		
.alpha.,.alphaDimethylbenzyl	(STP) sediment		0.023	+
hydroperoxide 80-15-9	(freshwater)		mg/kg	
.alpha.,.alphaDimethylbenzyl	sediment		0,0023	
hydroperoxide	(marine water)		mg/kg	
80-15-9 .alpha.,.alphaDimethylbenzyl	Soil		0.0029	
hydroperoxide 80-15-9	Son		mg/kg	
Acrylic acid	aqua	0,003 mg/l		
79-10-7 Acrylic acid	(freshwater) aqua (marine	0.0003		
79-10-7	water)	mg/l		
Acrylic acid	sewage	0,9 mg/l		
79-10-7	treatment plant (STP)			
Acrylic acid	sediment		0,0236	
79-10-7	(freshwater)		mg/kg	
Acrylic acid 79-10-7	sediment (marine water)		0,00236 mg/kg	
Acrylic acid	Soil		1 mg/kg	
79-10-7			1 mg/mg	
Acrylic acid	oral		0,03 g/kg	
79-10-7 Acrylic acid	Air			no hazard identified
79-10-7	All			no nazard identified
Methacrylic acid, monoester with propane-	aqua	0,904 mg/l		
1,2-diol 27813-02-1	(freshwater)			
Methacrylic acid, monoester with propane-	agua (marine	0,904 mg/l		
1,2-diol	water)	0,501 mg/1		
27813-02-1				
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-diol	(intermittent			
27813-02-1 Methacrylic acid, monoester with propane-	releases) sediment		6,28 mg/kg	+
1,2-diol	(freshwater)		0,28 mg/kg	
27813-02-1) i			
Methacrylic acid, monoester with propane-	sediment		6,28 mg/kg	
1,2-diol 27813-02-1	(marine water)			
Methacrylic acid, monoester with propane-	Soil		0,727	
1,2-diol			mg/kg	
27813-02-1				
Methacrylic acid, monoester with propane-	Marine water -	0,972 mg/l		
1,2-diol 27813-02-1	intermittent			
Methacrylic acid, monoester with propane-	Air			no hazard identified
1,2-diol				
27813-02-1				
Methacrylic acid, monoester with propane- 1,2-diol	Predator			no potential for bioaccumulation
1,2-dioi 27813-02-1				бюассинивиоп
methacrylic acid	aqua	0,82 mg/l		
79-41-4	(freshwater)	0.45		
methacrylic acid 79-41-4	Freshwater - intermittent	0,45 mg/l		
12 11 T	meninten	1		ı

methacrylic acid 79-41-4	aqua (marine water)	0,082 mg/l		
methacrylic acid 79-41-4	sewage treatment plant (STP)	100 mg/l		
methacrylic acid 79-41-4	sediment (freshwater)		3,09 mg/kg	
methacrylic acid 79-41-4	sediment (marine water)		0,309 mg/kg	
methacrylic acid 79-41-4	Soil		0,137 mg/kg	
methacrylic acid 79-41-4	Predator			no potential for bioaccumulation

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
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	
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
2-Phenoxyethyl methacrylate 10595-06-9	Workers	inhalation	Long term exposure - systemic effects		12 mg/m3	
2-Phenoxyethyl methacrylate 10595-06-9	Workers	dermal	Long term exposure - systemic effects		3,5 mg/kg	
2-Phenoxyethyl acrylate 48145-04-6	Workers	inhalation	Long term exposure - systemic effects		12 mg/m3	
2-Phenoxyethyl acrylate 48145-04-6	Workers	inhalation	Long term exposure - local effects		77 mg/m3	
2-Phenoxyethyl acrylate 48145-04-6	Workers	dermal	Long term exposure - systemic effects		3,5 mg/kg	
.alpha.,.alphaDimethylbenzyl hydroperoxide 80-15-9	Workers	inhalation	Long term exposure - systemic effects		6 mg/m3	
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
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	General population	oral	Long term exposure -		2,5 mg/kg	no hazard identified

27813-02-1		1	systemic effects		
methacrylic acid 79-41-4	Workers	Inhalation	Long term exposure - local effects	88 mg/m3	no potential for bioaccumulation
methacrylic acid 79-41-4	Workers	Inhalation	Long term exposure - systemic effects	29,6 mg/m3	no potential for bioaccumulation
methacrylic acid 79-41-4	Workers	dermal	Long term exposure - systemic effects	4,25 mg/kg	no potential for bioaccumulation
methacrylic acid 79-41-4	General population	Inhalation	Long term exposure - local effects	6,55 mg/m3	no potential for bioaccumulation
methacrylic acid 79-41-4	General population	Inhalation	Long term exposure - systemic effects	6,3 mg/m3	no potential for bioaccumulation
methacrylic acid 79-41-4	General population	dermal	Long term exposure - systemic effects	2,55 mg/kg	no potential for bioaccumulation

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

Delivery form gel Colour red Odor Acrylic Physical state liquid

Not applicable, Product is a liquid Melting point

Solidification temperature < -30 °C (< -22 °F) > 100 °C (> 212 °F) Initial boiling point Flammability The product is not flammable.

Explosive limits Not applicable, The product is not flammable. > 93 °C (> 199.4 °F); Setaflash Closed Cup Flash point Not applicable, The product is not flammable. Auto-ignition temperature

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

Soluble

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

pН > 20.5 mm2/s

Viscosity (kinematic) (40 °C (104 °F);)

Solubility (qualitative) Not miscible or difficult to mix (20 °C (68 °F); Solvent: Water)

Solubility (qualitative)

(Solvent: Acetone)

Solubility (qualitative) Insoluble (Solvent: Water)

Partition coefficient: n-octanol/water Not applicable Mixture < 1 hPa

Vapour pressure (20 °C (68 °F))

Density 1,13 g/cm3 no method / method unknown (23 °C (73.4 °F))

Relative vapour density:

(20 °C)

Particle characteristics 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.

SECTION 11: Toxicological information

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 CAS-No.	Value type	Value	Species	Method
Isobornyl methacrylate 7534-94-3	LD50	3.160 mg/kg	rat	not specified
2-Hydroxyethyl methacrylate 868-77-9	LD50	5.564 mg/kg	rat	FDA Guideline
Phenoxyethyl methacrylate 10595-06-9	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
2-Propenoic acid, 2- phenoxyethyl ester 48145-04-6	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Cumene hydroperoxide 80-15-9	LD50	382 mg/kg	rat	other guideline:
Acrylic acid 79-10-7	LD50	1.500 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
Methacryloyloxyethyl succinate 20882-04-6	LD50	> 2.000 mg/kg	rat	OECD Guideline 423 (Acute Oral toxicity)
Acetic acid, 2- phenylhydrazide 114-83-0	LD50	270 mg/kg	rat	not specified
Hydroxypropyl methacrylate 27813-02-1	LD50	> 2.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
methacrylic acid 79-41-4	LD50	1.320 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
1,4-Naphthalenedione 130-15-4	LD50	124 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)

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		_	
Isobornyl methacrylate 7534-94-3	LD50	> 3.000 mg/kg	rabbit	not specified
2-Hydroxyethyl methacrylate 868-77-9	LD50	> 5.000 mg/kg	rabbit	not specified
Phenoxyethyl methacrylate 10595-06-9	LD50	> 2.000 mg/kg	rat	EU Method B.3 (Acute Toxicity (Dermal)
2-Propenoic acid, 2- phenoxyethyl ester 48145-04-6	LD50	> 2.000 mg/kg	rat	EU Method B.3 (Acute Toxicity (Dermal)
Cumene hydroperoxide 80-15-9	Acute toxicity estimate (ATE)	1.100 mg/kg		Expert judgement
Acrylic acid 79-10-7	Acute toxicity estimate (ATE)	1.100 mg/kg		Expert judgement
Hydroxypropyl methacrylate 27813-02-1	LD50	> 5.000 mg/kg	rabbit	not specified
methacrylic acid 79-41-4	LD50	500 - 1.000 mg/kg	rabbit	Dermal Toxicity Screening
methacrylic acid 79-41-4	Acute toxicity estimate (ATE)	500 mg/kg		Expert judgement

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		
Cumene hydroperoxide 80-15-9	LC50	1,370 mg/l	vapour	4 h	rat	not specified
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
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	dust/mist			Expert judgement
1,4-Naphthalenedione 130-15-4	LC50	0,046 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)

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
Isobornyl methacrylate 7534-94-3	mildly irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2-Hydroxyethyl methacrylate 868-77-9	slightly irritating	24 h	rabbit	Draize Test
2-Propenoic acid, 2- phenoxyethyl ester 48145-04-6	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Cumene hydroperoxide 80-15-9	corrosive		rabbit	Draize Test
Acrylic acid 79-10-7	Category 1 (corrosive)	3 min	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
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)
Hydroxypropyl methacrylate 27813-02-1	not irritating	24 h	rabbit	Draize Test
methacrylic acid 79-41-4	corrosive	3 min	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
1,4-Naphthalenedione 130-15-4	Category 1C (corrosive)		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

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
Isobornyl methacrylate 7534-94-3	not irritating		rabbit	FDA Guideline
Isobornyl methacrylate 7534-94-3	slightly irritating		rabbit	Draize Test
2-Hydroxyethyl methacrylate 868-77-9	Category 2B (mildly irritating to eyes)		rabbit	Draize Test
2-Propenoic acid, 2- phenoxyethyl ester 48145-04-6	not irritating		rabbit	Draize Test
Acrylic acid 79-10-7	Category 1 (irreversible effects on the eye)		rabbit	BASF Test
Methacryloyloxyethyl succinate 20882-04-6	Category I	10 min	Bovine, cornea, in vitro test	OECD Guideline 437 (BCOP)
Hydroxypropyl methacrylate 27813-02-1	Category 2B (mildly irritating to eyes)		rabbit	Draize Test
methacrylic acid 79-41-4	corrosive		rabbit	Draize Test

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
Isobornyl methacrylate 7534-94-3	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
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
Phenoxyethyl methacrylate 10595-06-9	sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
2-Propenoic acid, 2- phenoxyethyl ester 48145-04-6	sensitising	Guinea pig maximisation test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
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
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
methacrylic acid 79-41-4	not sensitising	Buehler test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
1,4-Naphthalenedione 130-15-4	sensitising	not specified	guinea pig	not specified

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
Isobornyl methacrylate 7534-94-3	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Isobornyl methacrylate 7534-94-3	negative		with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Isobornyl methacrylate 7534-94-3	negative	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	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)
2-Propenoic acid, 2- phenoxyethyl ester 48145-04-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2-Propenoic acid, 2- phenoxyethyl ester 48145-04-6	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
2-Propenoic acid, 2- phenoxyethyl ester 48145-04-6	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Cumene hydroperoxide 80-15-9	positive	bacterial reverse mutation assay (e.g Ames test)	without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Acrylic acid 79-10-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Acrylic acid 79-10-7	negative	mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Acrylic acid 79-10-7	negative	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	without		equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells
Methacryloyloxyethyl succinate 20882-04-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Hydroxypropyl methacrylate 27813-02-1	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Hydroxypropyl methacrylate 27813-02-1	positive	in vitro mammalian chromosome aberration test	with and without		Chromosome Aberration Test
Hydroxypropyl methacrylate 27813-02-1	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
methacrylic acid 79-41-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial 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)
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
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)
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
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)
2-Hydroxyethyl methacrylate 868-77-9	NOAEL P >= 1.000 mg/kg NOAEL F1 >= 1.000 mg/kg	screening	oral: gavage	rat	equivalent or similar to OECD Guideline 422 (Combined Repeated Dose Toxicity Study)
2-Propenoic acid, 2- phenoxyethyl ester 48145-04-6	NOAEL P 300 mg/kg NOAEL F1 300 mg/kg	screening	oral: gavage	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
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)
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)
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-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
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)
2-Propenoic acid, 2- phenoxyethyl ester 48145-04-6	NOAEL 350 mg/kg	oral: gavage	90 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Cumene hydroperoxide 80-15-9		inhalation: aerosol	6 h/d 5 d/w	rat	not specified
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)
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)
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.

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	4.50	0.61	h	
Isobornyl methacrylate	LC50	1,79 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish,
7534-94-3					Acute Toxicity Test)
2-Hydroxyethyl methacrylate	LC50	> 100 mg/l	96 h	Oryzias latipes	OECD Guideline 203 (Fish,
868-77-9					Acute Toxicity Test)
Phenoxyethyl methacrylate	LC50	10 mg/l	96 h	Leuciscus idus	OECD Guideline 203 (Fish,
10595-06-9					Acute Toxicity Test)
2-Propenoic acid, 2-	LC50	10 mg/l	96 h	Leuciscus idus	OECD Guideline 203 (Fish,
phenoxyethyl ester					Acute Toxicity Test)
48145-04-6					,
Cumene hydroperoxide	LC50	3,9 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish,
80-15-9		, 8			Acute Toxicity Test)
Acrylic acid	LC50	27 mg/l	96 h	Salmo gairdneri (new name:	EPA OTS 797.1400 (Fish
79-10-7				Oncorhynchus mykiss)	Acute Toxicity Test)
Acrylic acid	NOEC	>= 10,1 mg/l	45 d	Oryzias latipes	OECD Guideline 210 (fish
79-10-7					early lite stage toxicity test)
Hydroxypropyl methacrylate	LC50	493 mg/l	48 h	Leuciscus idus melanotus	DIN 38412-15
27813-02-1					
methacrylic acid	LC50	85 mg/l	96 h	Salmo gairdneri (new name:	EPA OTS 797.1400 (Fish
79-41-4				Oncorhynchus mykiss)	Acute Toxicity Test)
methacrylic acid	NOEC	10 mg/l	35 d	Danio rerio	OECD Guideline 210 (fish
79-41-4					early lite stage toxicity test)
1,4-Naphthalenedione	LC50	0,045 mg/l	96 h	Oryzias latipes	OECD Guideline 203 (Fish,
130-15-4					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 CAS-No.	Value type	Value	Exposure time	Species	Method
Isobornyl methacrylate 7534-94-3	EC50	> 2,57 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-Hydroxyethyl methacrylate 868-77-9	EC50	380 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Phenoxyethyl methacrylate 10595-06-9	EC50	1,21 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-Propenoic acid, 2- phenoxyethyl ester 48145-04-6	EC50	1,21 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Cumene hydroperoxide 80-15-9	EC50	18,84 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Acrylic acid 79-10-7	EC50	95 mg/l	48 h	Daphnia magna	EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)
Methacryloyloxyethyl succinate 20882-04-6	EC50	> 515,4 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Hydroxypropyl methacrylate 27813-02-1	EC50	> 143 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

methacrylic acid 79-41-4	EC50	> 130 mg/l	48 h	Daphnia magna	EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)
1,4-Naphthalenedione 130-15-4	EC50	0,026 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity (aquatic invertebrates):

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				
Isobornyl methacrylate 7534-94-3	NOEC	0,233 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)
Acrylic acid 79-10-7	NOEC	19 mg/l	21 d	Daphnia magna	EPA OTS 797.1330 (Daphnid Chronic Toxicity Test)
Hydroxypropyl methacrylate 27813-02-1	NOEC	45,2 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
methacrylic acid 79-41-4	NOEC	53 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia 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 CAS-No.	Value type	Value	Exposure time	Species	Method
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)
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)
Phenoxyethyl methacrylate 10595-06-9	EC50	4,4 mg/l	72 h	Desmodesmus subspicatus	ISO 8692 (Water Quality)
Phenoxyethyl methacrylate 10595-06-9	EC10	0,71 mg/l	72 h	Desmodesmus subspicatus	ISO 8692 (Water Quality)
2-Propenoic acid, 2- phenoxyethyl ester 48145-04-6	EC10	0,71 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	ISO 8692 (Water Quality)
2-Propenoic acid, 2- phenoxyethyl ester 48145-04-6	EC50	4,4 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	ISO 8692 (Water Quality)
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	1 mg/l	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	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)
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)
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)
methacrylic acid 79-41-4	NOEC	8,2 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
methacrylic acid 79-41-4	EC50	45 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
1,4-Naphthalenedione 130-15-4	NOEC	0,07 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
1,4-Naphthalenedione 130-15-4	EC50	0,42 mg/l	72 h	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 868-77-9	EC0	> 3.000 mg/l	16 h	Pseudomonas fluorescens	other guideline:
Phenoxyethyl methacrylate 10595-06-9	EC50	177 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Cumene hydroperoxide 80-15-9	EC10	70 mg/l	30 min	not specified	not specified
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)
Hydroxypropyl methacrylate 27813-02-1	EC10	1.140 mg/l	16 h		not specified
methacrylic acid 79-41-4	EC10	100 mg/l	17 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm- Test)
1,4-Naphthalenedione 130-15-4	EC50	5,94 mg/l	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

12.2. Persistence and degradability

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
Isobornyl methacrylate 7534-94-3	readily biodegradable	aerobic	70 %	28 d	OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels (Headspace Test)
2-Hydroxyethyl methacrylate 868-77-9	readily biodegradable	aerobic	92 - 100 %	14 d	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
Phenoxyethyl methacrylate 10595-06-9	not readily biodegradable.	aerobic	22,3 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
2-Propenoic acid, 2- phenoxyethyl ester 48145-04-6		aerobic	22,3 %	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)
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)
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)
Hydroxypropyl methacrylate 27813-02-1	readily biodegradable	aerobic	94,2 %	28 d	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)
methacrylic acid 79-41-4	readily biodegradable	aerobic	86 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
methacrylic acid 79-41-4	inherently biodegradable	aerobic	100 %	14 d	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
1,4-Naphthalenedione 130-15-4	not readily biodegradable.	aerobic	0 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)

12.3. Bioaccumulative potential

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

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)
Cumene hydroperoxide 80-15-9	9,1			calculation	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
Acrylic acid 79-10-7	3,16				QSAR (Quantitative Structure Activity Relationship)

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.		1	
Isobornyl methacrylate	5,09		OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC
7534-94-3			Method)
2-Hydroxyethyl methacrylate	0,42	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake
868-77-9			Flask Method)
Phenoxyethyl methacrylate	3,137		OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC
10595-06-9			Method)
2-Propenoic acid, 2-	2,58		OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC
phenoxyethyl ester			Method)
48145-04-6			
Cumene hydroperoxide	1,6	25 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC
80-15-9			Method)
Acrylic acid	0,46	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake
79-10-7			Flask Method)
Methacryloyloxyethyl	0,783	23 °C	EU Method A.8 (Partition Coefficient)
succinate			
20882-04-6			
Acetic acid, 2-	0,74		not specified
phenylhydrazide			•
114-83-0			
Hydroxypropyl methacrylate	0,97	20 °C	not specified
27813-02-1			
methacrylic acid	0,93	22 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake
79-41-4			Flask Method)
1,4-Naphthalenedione	1,71		not specified
130-15-4			

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.	
Isobornyl methacrylate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
7534-94-3	Bioaccumulative (vPvB) criteria.
2-Hydroxyethyl methacrylate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
868-77-9	Bioaccumulative (vPvB) criteria.
Phenoxyethyl methacrylate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
10595-06-9	Bioaccumulative (vPvB) criteria.
2-Propenoic acid, 2-phenoxyethyl ester	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
48145-04-6	Bioaccumulative (vPvB) criteria.
Cumene hydroperoxide	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
80-15-9	Bioaccumulative (vPvB) criteria.
Acrylic acid	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
79-10-7	Bioaccumulative (vPvB) criteria.
Hydroxypropyl methacrylate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
27813-02-1	Bioaccumulative (vPvB) criteria.
methacrylic acid	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
79-41-4	Bioaccumulative (vPvB) criteria.
1,4-Naphthalenedione	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
130-15-4	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 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)

< 3,00 %

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 vapour.

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 eve irritation.

H330 Fatal if inhaled.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H361d Suspected of damaging the unborn child.

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

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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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