

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

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LOCTITE 270 BO10ML EN/DE

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

#### 1.1. Product identifier

LOCTITE 270 BO10ML EN/DE

### 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

HP24RQ Hemel Hempstead

Great Britain

Phone:

+44 (1442) 278000

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 2

H411 Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

### Label elements (CLP):

Hazard pictogram:

**Contains** 3,3,5 Trimethylcyclohexyl methacrylate

2,2'-Ethylenedioxydiethyl dimethacrylate

maleic acid

Acetic acid, 2-phenylhydrazide

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.

H411 Toxic 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.PreventionP273 Avoid release to the environment.P280 Wear protective gloves.

Precautionary statement:P302+P352 IF ON SKIN: Wash with plenty of soap and water.ResponseP333+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.

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

# 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.  3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9 231-927-0 01-2120748527-45	25- 50 %	Aquatic Chronic 2, H411 Skin Sens. 1B, H317 STOT SE 3, H335 Skin Irrit. 2, H315 Eye Irrit. 2, H319	STOT SE 3; H335; C >= 10 %	
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0 203-652-6 01-2119969287-21	5- < 10 %	Skin Sens. 1B, H317	dermal:ATE = > 5.000 mg/kg inhalation:ATE = 28,17 mg/l;dust/mist	
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	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	
maleic acid 110-16-7 203-742-5 01-2119488705-25	0,1-< 1 %	Acute Tox. 4, Oral, H302 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Skin Sens. 1, H317 Acute Tox. 4, Dermal, H312	Skin Sens. 1; H317; C >= 0,1 %	
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		
1,4-Naphthalenedione 130-15-4 204-977-6	0,01- < 0,025 % ( 100 ppm- < 250 ppm)	Acute Tox. 3, Oral, H301 Skin Corr. 1C, H314 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	M acute = 10 M chronic = 1	

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.

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:

Carbon dioxide, foam, powder Fine water spray

### 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

Ensure adequate ventilation.

Avoid contact with skin and eyes.

Wear protective equipment.

Keep away from sources of ignition.

# 6.2. Environmental precautions

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

# $\textbf{6.3.}\ \textbf{Methods}\ \textbf{and}\ \textbf{material}\ \textbf{for}\ \textbf{containment}\ \textbf{and}\ \textbf{cleaning}\ \textbf{up}$

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.

Dispose of contaminated material as waste according to Section 13.

### 6.4. Reference to other sections

See advice in section 8

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Use only in well-ventilated areas.

Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.

Avoid skin and eye contact.

See advice in section 8

Hygiene measures:

Good industrial hygiene practices should be observed.

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

# 7.2. Conditions for safe storage, including any incompatibilities

Ensure good ventilation/extraction. Store in a cool, well-ventilated place. 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

None

### **Occupational Exposure Limits**

Valid for

Ireland

None

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

Name on list	En vi ronmental Compartment		Value				Remarks
	Comparument	perrou	mg/l	ppm	mg/kg	others	
3,3,5 Trimethylcyclohexyl methacrylate	aqua		0,0019	FF			
7779-31-9	(freshwater)		mg/l				
3,3,5 Trimethylcyclohexyl methacrylate	aqua (marine		0,00019				
7779-31-9 3,3,5 Trimethylcyclohexyl methacrylate	water) aqua		mg/l 0,019 mg/l				
7779-31-9	(intermittent releases)		0,019 llig/1				
3,3,5 Trimethylcyclohexyl methacrylate	sewage		100 mg/l				
7779-31-9	treatment plant (STP)						
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	sediment (freshwater)				0,141 mg/kg		
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	sediment (marine water)				0,014 mg/kg		
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	Soil				0,027 mg/kg		
2,2'-Ethylenedioxydiethyl dimethacrylate	aqua		0,164 mg/l				
109-16-0	(freshwater)						
2,2'-Ethylenediox ydiethyl dimethacrylate 109-16-0	aqua (marine water)		0,0164 mg/l				
2,2'-Ethylenedioxydiethyl dimethacrylate	sewage		10 mg/l				
109-16-0	treatment plant (STP)						
2,2'-Ethylenedioxydiethyl dimethacrylate	aqua		0,164 mg/l				
109-16-0	(intermittent releases)						
2,2'-Ethylenedioxydiethyl dimethacrylate	sediment				1,85 mg/kg		
109-16-0	(freshwater)				1,55		
2,2'-Ethylenedioxydiethyl dimethacrylate	sediment				0,185		
109-16-0 2,2'-Ethylenedioxydiethyl dimethacrylate	(marine water) Soil				mg/kg 0,274		
109-16-0	5011				mg/kg		
2,2'-Ethylenedioxydiethyl dimethacrylate	Air				8 8		no hazard identified
109-16-0	D. L.						1. (1.16
2,2'-Ethylenediox ydiethyl dimethacrylate 109-16-0	Predator						no potential for bioaccumulation
.alpha.,.alphaDimethylbenzyl	aqua		0,0031				
hydroperoxide 80-15-9	(freshwater)		mg/l				
.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)						
.alpha.,.alphaDimethylbenzyl	sediment				0,023		
hydroperoxide 80-15-9	(freshwater)				mg/kg		
.alpha.,.alphaDimethylbenzyl	sediment				0,0023		
hydroperoxide 80-15-9	(marine water)				mg/kg		
.alpha.,.alphaDimethylbenzyl	Soil				0,0029		
hydroperoxide 80-15-9					mg/kg		
Maleic acid	aqua		0,1 mg/l				
110-16-7	(freshwater)		0.4224				
Maleic acid 110-16-7	aqua (intermittent releases)		0,4281 mg/l				
Maleic acid	sediment			<del>                                     </del>	0,334		
110-16-7	(freshwater)				mg/kg		
Maleic acid	sewage		44,6 mg/l				
110-16-7	treatment plant (STP)						
Maleic acid 110-16-7	aqua (marine water)		0,01 mg/l				

Maleic acid	sediment	0,0334	
110-16-7	(marine water)	mg/kg	
Maleic acid	Soil	0,0415 mg/kg	

# Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	Workers	inhalation	Long term exposure - systemic effects		16,45 mg/m3	
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	Workers	dermal	Long term exposure - systemic effects		46,7 mg/kg	
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	General population	inhalation	Long term exposure - systemic effects		2,9 mg/m3	
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	General population	dermal	Long term exposure - systemic effects		1,67 mg/kg	
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	General population	oral	Long term exposure - systemic effects		1,67 mg/kg	
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	Workers	inhalation	Long term exposure - systemic effects		48,5 mg/m3	no hazard identified
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	Workers	dermal	Long term exposure - systemic effects		13,9 mg/kg	no hazard identified
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	General population	inhalation	Long term exposure - systemic effects		14,5 mg/m3	no hazard identified
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	General population	dermal	Long term exposure - systemic effects		8,33 mg/kg	no hazard identified
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	General population	oral	Long term exposure - systemic effects		8,33 mg/kg	no hazard identified
.alpha.,.alphaDimethylbenzyl hydroperoxide 80-15-9	Workers	inhalation	Long term exposure - systemic effects		6 mg/m3	
Maleic acid 110-16-7	Workers	dermal	Acute/short term exposure - local effects		0,55 mg/cm2	
Maleic acid 110-16-7	Workers	dermal	Long term exposure - local effects		0,04 mg/cm2	
Maleic acid 110-16-7	Workers	dermal	Acute/short term exposure - systemic effects		58 mg/kg	
Maleic acid 110-16-7	Workers	dermal	Long term exposure - systemic effects		3,3 mg/kg	
Maleic acid 110-16-7	Workers	inhalation	Acute/short term exposure - local effects		3 mg/m3	
Maleic acid 110-16-7	Workers	inhalation	Long term exposure - systemic effects		3 mg/m3	
Maleic acid 110-16-7	Workers	inhalation	Long term exposure - local effects		3 mg/m3	
Maleic acid 110-16-7	Workers	inhalation	Acute/short term exposure - systemic effects		3 mg/m3	

### **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 green
Odor characteristic

Melting point Not applicable, Product is a liquid

Initial boiling point > 65 °C (> 149 °F) Flammability Not applicable

Explosive limits Currently under determination

Flash point 110 °C (230 °F)

Auto-ignition temperature Currently under determination
Decomposition temperature Currently under determination

pH Not applicable, Product reacts with water.

Viscosity (kinematic) Currently under determination

Solubility (qualitative) Insoluble

(23 °C (73.4 °F); Solvent: Water)

Solubility (qualitative) Soluble

(Solvent: Acetone)

Partition coefficient: n-octanol/water Currently under determination

Vapour pressure 2,85 mbar

 $(25~^{\circ}\mathrm{C}~(77~^{\circ}\mathrm{F}))$ 

Density (20 °C (68 °F))

Relative vapour density:

Particle characteristics

1,10 g/cm3 None

Currently under determination

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

Strong oxidizing agents.

Strong bases.

Acids.

Reducing agents.

### 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**

# $1.1\ Information\ on\ hazard\ classes\ as\ defined\ in\ Regulation\ (EC)\ No\ 1272/2008$

# 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
3,3,5 Trimethylcyclohexyl		> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
methacrylate 7779-31-9				
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	LD50	10.837 mg/kg	rat	not specified
Cumene hydroperoxide 80-15-9	LD50	382 mg/kg	rat	other guideline:
maleic acid 110-16-7	LD50	708 mg/kg	rat	not specified
Acetic acid, 2- phenylhydrazide 114-83-0	LD50	270 mg/kg	rat	not specified
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 CAS-No.	Value type	Value	Species	Method
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9		> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	Acute toxicity estimate (ATE)	> 5.000 mg/kg		Expert judgement
Cumene hydroperoxide 80-15-9	Acute toxicity estimate (ATE)	1.100 mg/kg		Expert judgement
maleic acid 110-16-7	LD50	1.560 mg/kg	rabbit	not specified

### Acute inhalative toxicity:

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

Hazardous substances	Value	Value	Test atmosphere	Exposure	Species	Method
CAS-No.	type			time		
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	Acute toxicity estimate (ATE)	28,17 mg/l	dust/mist			Expert judgement
Cumene hydroperoxide 80-15-9	LC50	1,370 mg/l	vapour	4 h	rat	not specified
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
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	not irritating	24 h	rabbit	Draize Test
Cumene hydroperoxide 80-15-9	corrosive		rabbit	Draize T est
maleic acid 110-16-7	irritating	24 h	human	Patch Test
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	Result	Exposure	Species	Method
CAS-No.		time		
2,2'-Ethylenedioxydiethyl	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
dimethacrylate				
109-16-0				
maleic acid	highly		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
110-16-7	irritating			

# Respiratory or skin sensitization:

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

Hazardous substances	Result	Test type	Species	Method
CAS-No.				
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
maleic acid 110-16-7	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
maleic acid 110-16-7	sensitising	Mouse local lymphnode assay (LLNA)	guinea pig	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	Metabolic activation/	Species	Method
CIID III		administration	Exposure time		
3,3,5 Trimethylcyclohexyl	negative	bacterial reverse	with and without		OECD Guideline 471
methacrylate		mutation assay (e.g			(Bacterial Reverse Mutation
7779-31-9		Ames test)			Assay)
2,2'-Ethylenedioxydiethyl	negative	mammalian cell	with and without		OECD Guideline 476 (In vitro
dimethacrylate		gene mutation assay			Mammalian Cell Gene
109-16-0					Mutation Test)
2,2'-Ethylenedioxydiethyl	negative	bacterial reverse	with and without		OECD Guideline 471
dimethacrylate		mutation assay (e.g			(Bacterial Reverse Mutation
109-16-0		Ames test)			Assay)
2,2'-Ethylenedioxydiethyl	negative	in vitro mammalian	with and without		OECD Guideline 487 (In vitro
dimethacrylate		cell micronucleus			Mammalian Cell
109-16-0		test			Micronucleus Test)
Cumene hydroperoxide	positive	bacterial reverse	without		OECD Guideline 471
80-15-9		mutation assay (e.g			(Bacterial Reverse Mutation
		Ames test)			Assay)
maleic acid	negative	bacterial reverse	no data		AmesTest
110-16-7		mutation assay (e.g			
		Ames test)			
maleic acid	negative	mammalian cell	with and without		OECD Guideline 476 (In vitro
110-16-7		gene mutation assay			Mammalian Cell Gene
					Mutation Test)

# 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
maleic acid 110-16-7	not carcinogenic	oral: feed	2 y daily	rat	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	Result / Value	Test type	Route of	Species	Method
CAS-No.			application		
2,2'-Ethylenedioxydiethyl	NOAEL P 1.000 mg/kg		oral: gavage	rat	OECD Guideline 422
dimethacrylate					(Combined Repeated Dose
109-16-0	NOAEL F1 1.000 mg/kg				Toxicity Study with the
					Reproduction/
					Developmental Toxicity
					Screening Test)
maleic acid	NOAEL F1 150 mg/kg	Two	oral: gavage	rat	OECD Guideline 416 (Two-
110-16-7		generation			Generation Reproduction
	NOAEL F2 55 mg/kg	study			Toxicity Study)

# STOT-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
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	NOAEL 1.000 mg/kg	oral: gavage	28 d daily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	NOAEL 1.000 mg/kg	oral: gavage	daily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Cumene hydroperoxide 80-15-9		inhalation: aerosol	6 h/d 5 d/w	rat	not specified
maleic acid 110-16-7	NOAEL >= 40  mg/kg	oral: feed	90 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

# 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				
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	LC50	1,9 mg/l		Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	LC50	16,4 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Cumene hydroperoxide 80-15-9	LC50	3,9 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
maleic acid 110-16-7	LC50	> 245 mg/l	48 h	Leuciscus idus	DIN 38412-15
1,4-Naphthalenedione 130-15-4	LC50	0,045 mg/l	96 h	Oryzias latipes	OECD Guideline 203 (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	S pe cies	Method
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	EC50	14,43 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)
maleic acid 110-16-7	EC50	42,81 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
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 to aquatic invertebrates

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 ti	ime Species	Method
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	NOEC	32 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
maleic acid 110-16-7	NOEC	10 mg/l	21 d	Daphnia magna	other guideline:

# Toxicity (Algae):

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		•	1	
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	EC10	0,43 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	EC50	> 100 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	NOEC	18,6 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
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)
maleic acid 110-16-7	EC50	74,35 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
maleic acid 110-16-7	EC10	11,8 mg/l	72 h	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 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	Species	Method
CAS-No.	type				
Cumene hydroperoxide	EC10	70 mg/l	30 min	not specified	not specified
80-15-9					
maleic acid	EC10	44,6 mg/l	18 h	Pseudomonas putida	DIN 38412, part 8
110-16-7				-	(Pseudomonas
					Zellvermehrungshemm-
					Test)
1,4-Naphthalenedione	EC50	5,94 mg/l	3 h	activated sludge of a	OECD Guideline 209
130-15-4				predominantly domestic sewage	(Activated Sludge,
					Respiration Inhibition Test)

# 12.2. Persistence and degradability

Hazardous substances	Result	Test type	Degradability	Exposure	Method
CAS-No.				time	
3,3,5 Trimethylcyclohexyl	not readily biodegradable.	aerobic	16,8 %	28 d	OECD Guideline 301 F (Ready
methacrylate					Biodegradability: Manometric
7779-31-9					Respirometry Test)
2,2'-Ethylenedioxydiethyl	readily biodegradable	aerobic	85 %	28 d	OECD Guideline 301 B (Ready
dimethacrylate					Biodegradability: CO2 Evolution
109-16-0					Test)
Cumene hydroperoxide	not readily biodegradable.	aerobic	3 %	28 d	OECD Guideline 301 B (Ready
80-15-9					Biodegradability: CO2 Evolution
					Test)
maleic acid	readily biodegradable	aerobic	97,08 %	28 d	OECD Guideline 301 B (Ready
110-16-7					Biodegradability: CO2 Evolution
					Test)
1,4-Naphthalenedione	not readily biodegradable.	aerobic	0 %	28 d	OECD Guideline 301 F (Ready
130-15-4					Biodegradability: Manometric
					Respirometry Test)

# 12.3. Bioaccumulative potential

Hazardous substances CAS-No.	Bioconcentratio n factor (BCF)	Exposure time	Temperature	Species	Method
Cumene hydroperoxide	9,1			calculation	OECD Guideline 305
80-15-9					(Bioconcentration: Flow-through
					Fish Test)

### 12.4. Mobility in soil

Hazardous substances	LogPow	Tempe rature	Method
CAS-No. 3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	5,25	20 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	2,3		OECD Guideline 117 (Partition Coefficient (n-octanol/water), HPLC Method)
Cumene hydroperoxide 80-15-9	1,6	25 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
maleic acid 110-16-7	-1,3	20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol/water), Shake Flask Method)
Acetic acid, 2- phenylhydrazide 114-83-0	0,74		not specified
1,4-Naphthalenedione 130-15-4	1,71		not specified

### 12.5. Results of PBT and vPvB assessment

Hazardous substances	PBT/vPvB
CAS-No.	
3,3,5 Trimethylcyclohexyl methacrylate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
7779-31-9	Bioaccumulative (vPvB) criteria.
2,2'-Ethylenedioxydiethyl dimethacrylate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
109-16-0	Bioaccumulative (vPvB) criteria.
Cumene hydroperoxide	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
80-15-9	Bioaccumulative (vPvB) criteria.
maleic acid	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
110-16-7	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:

Dispose of in accordance with local and national regulations.

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

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.

Disposal must be made according to official regulations.

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	3082
RID	3082
ADN	3082
IMDG	3082
IATA	3082

### 14.2. UN proper shipping name

ADR	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3.3.5-

Trimethy lcy clohexy l methacry late)

RID ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3,3,5-

Trimethy lcy clohexy l methacry late)

ADN ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3,3,5-

Trimethy lcy clohexy l methacry late)

IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3,3,5-

Trimethy lcy clohexy l methacry late)

IATA Environmentally hazardous substance, liquid, n.o.s. (3,3,5-Trimethylcyclohexyl

methacry late)

### 14.3. Transport hazard class(es)

ADR	ç
RID	9
ADN	9
IMDG	ç
IATA	C

### 14.4. Packing group

ADR	III
RID	III
ADN	III
IMDG	III
IATA	III

### 14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	Marine pollutant
IATA	not applicable

## 14.6. Special precautions for user

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

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

### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

# **SECTION 15: Regulatory information**

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

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

VOC content < 3 %

(2010/75/EC)

### 15.2. Chemical safety assessment

A chemical safety assessment has not 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:

H242 Heating may cause a fire.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

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.

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.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

ED: Substance identified as having endocrine disrupting properties

EU OEL:

Substance with a Union workplace exposure limit

EU EXPLD 1:

Substance listed in Annex I, Reg (EC) No. 2019/1148

EU EXPLD 2

Substance listed in Annex II, Reg (EC) No. 2019/1148

SVHC:

Substance of very high concern (REACH Candidate List)

PBT:

Substance fulfilling persistent, bioaccumulative and toxic criteria

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

bioaccumulative criteria

vPvB: Substance fulfilling very persistent and very bioaccumulative criteria

#### **Further information:**

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