

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

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Page 1 of 17

SDS No.: 541371

V010.1 Revision: 05.01.2023

mofak printing date: 09.02.2023

Replaces version from: 05.12.2022

Category 2

LOCTITE 577

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

1.1. Product identifier

LOCTITE 577

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

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 mofakult.ch

2.2. Label elements

Label elements (CLP):

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SDS No.: 541371 V010.1 LOCTITE 577 Page 2 of 17

Hazard pictogram:

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Contains

Tetramethylene dimethacrylate

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2,2'-Ethylenedioxydiethyl dimethacrylate

Acetic acid, 2-phenylhydrazide

maleic acid

Signal word:

Warning

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Hazard statement:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

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"***" ***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:

Precautionary statement:

P261 Avoid breathing vapors.

Prevention

P280 Wear protective gloves.

Precautionary statement: Response

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention.

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

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2.3. Other hazards

None if used properly.

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

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

SECTION 3: Composition/information on ingredients

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3.2. Mixtures

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Urheber des Dokuments bleibt der ursprüngliche

SDS No.: 541371 V010.1 LOCTITE 577 Page 3 of 17

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

	Hazardous components CAS-No.	Concentration	Classification	Specific Conc. Limits, M- factors and ATEs	Add. Information
	EC Number REACH-Reg No.				
	Tetramethylene dimethacrylate 2082-81-7	10- 20 %	Skin Sens. 1B, H317 Skin Irrit. 2, H315	STOT SE 3; H335; C >= 10 %	
	218-218-1		Eye Irrit. 2, H319		
.ch	01-2119967415-30		STOT SE 3, H335	mofakult.ch	
	2,2'-Ethylenedioxydiethyl	5-< 10 %	Skin Sens. 1B, H317	dermal:ATE => 5.000 mg/kg	
	dimethacrylate 109-16-0			inhalation:ATE = 28,17 mg/l;dust/mist	
	203-652-6			mg/ i,dast/ mist	
	01-2119969287-21				
ŀ	Acetic acid, 2-phenylhydrazide	0,1-< 1 %	Acute Tox. 3, Oral, H301		morakurt.cl
	114-83-0 204-055-3		Skin Irrit. 2, H315	,	
	204-033-3		Skin Sens. 1, H317 Eye Irrit. 2, H319		
			STOT SE 3, Inhalation, H335		
			Carc. 2, H351		
.ch	Cumene hydroperoxide	0,1-< 1 %	STOT RE 2, H373	Eye Irrit. 2; H319; C 1 - < 3 %	(*)
	80-15-9 201-254-7		Skin Corr. 1B, H314	Skin Irrit. 2; H315; C 3 - < 10 % Eye Dam. 1; H318; C 3 - < 10 %	
	01-2119475796-19		Acute Tox. 2, Inhalation, H330 Aquatic Chronic 2, H411	STOT SE 3; H335; C >= 1 %	
			Acute Tox. 4, Oral, H302	Skin Corr. 1B; H314; C >= 10 %	
			Acute Tox. 4, Dermal, H312	===== 	
			Org. Perox. E, H242	dermal:ATE = 1.100 mg/kg	
	mofakult.ch	\bigcirc	STOT SE 3, H335		mofakult.cl
	maleic acid 110-16-7	0,1-< 1 %	Acute Tox. 4, Oral, H302 Eye Irrit. 2, H319	Skin Sens. 1; H317; C >= 0,1 %	
	203-742-5		STOT SE 3, H335		
	01-2119488705-25		Skin Irrit. 2, H315		
			Skin Sens. 1, H317		
			Acute Tox. 4, Dermal, H312	mofakult.ch	
.UI	Menadione	0,0025-< 0,025	Acute Tox. 4, Oral, H302	M acute = 10	
	58-27-5	%	Eye Irrit. 2, H319	M chronic = 10	
	200-372-6	(25 ppm- < 250	Skin Irrit. 2, H315		
		ppm)	STOT SE 3, H335		
			Skin Sens. 1, H317 Aquatic Acute 1, H400		
	mofakult.ch		Aquatic Acute 1, 11400 Aquatic Chronic 1, H410		mofakult.cl
	HOIAKULGH		- Holakult.ch	*	morakult.ci

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

General information:

In case of adverse health effects seek medical advice.

Inhalation: **morakult.ch**Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing. If necessary, see a dermatologist.

Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

SDS No.: 541371 V010.1 LOCTITE 577

Page 4 of 17

Ingestion:

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

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

May cause an allergic skin reaction.

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

mofakult.ch See section: Description of first aid measures kult.ch

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

carbon dioxide, foam, powder, water spray jet, 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

mofakult. 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.

Wear protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment.

Danger of slipping on spilled product.

Avoid contact with skin and eyes.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Remove with liquid-absorbing material (sand, peat, sawdust).

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

mofakult.ch 7.1. Precautions for safe handling

Avoid skin and eye contact.

Hygiene measures:

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 no fakult.ch

Ensure good ventilation/extraction.

Store in a cool, dry place.

Refer to Technical Data Sheet

7.3. Specific end use(s)

mofakult.ch Adhesive mofakult.ch

Urheber des Dokuments bleibt der ursprüngliche Heraus

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
Ethene, homopolymer 9002-88-4 [DUST, INHALABLE DUST]		10	Time Weighted Average (TWA):		EH40 WEL
Ethene, homopolymer 9002-88-4 [DUST, RESPIRABLE DUST]	Ş	4	Time Weighted Average (TWA):	\$	EH40 WEL
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS, INHALABLE DUST]		6	Time Weighted Average (TWA):		EH40 WEL
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS, RESPIRABLE DUST]	mofaki	2,4 ult.ch	Time Weighted Average (TWA):	mofakult.ch	EH40 WEL
Silicon dioxide 112945-52-5 [Dust, respirable dust]		4	Time Weighted Average (TWA):		EH40 WEL
Silicon dioxide 112945-52-5 [Dust, inhalable dust] nofakult.ch		10	Time Weighted Average (TWA): mofakult.ch	D	EH40 WEL mofakult.cl

Occupational Exposure Limits

Valid for

Ireland

Ingredient [Regulated substance]	ppmmofaku	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Ethene, homopolymer 9002-88-4 [DUSTS NON-SPECIFIC]		10	Time Weighted Average (TWA):		IR_OEL
Ethene, homopolymer 9002-88-4 [DUSTS NON-SPECIFIC]		4	Time Weighted Average (TWA):		IR_OEL mofakult ch
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS]	7	6	Time Weighted Average (TWA):	7	IR_OEL
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS]		2,4	Time Weighted Average (TWA):		IR_OEL
Silicon dioxide 112945-52-5 [DUSTS NON-SPECIFIC]	mofakı	10 lit.ch	Time Weighted Average (TWA):	mofakult.ch	IR_OEL
Silicon dioxide 112945-52-5 [DUSTS NON-SPECIFIC]		4	Time Weighted Average (TWA):		IR_OEL

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Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Exposure Value Compartment period						Remarks	
	Compartment	periou	mg/l	ppm	mg/kg	others		
Tetramethylene dimethacrylate 2082-81-7	aqua (freshwater)		0,043 mg/l					
Tetramethylene dimethacrylate 2082-81-7	aqua (marine water)	ch	0,004 mg/l		mo	fakult.ch	0	
Tetramethylene dimethacrylate 2082-81-7	aqua (intermittent releases)		0,098 mg/l					
Tetramethylene dimethacrylate 2082-81-7	sewage treatment plant (STP)		2 mg/l					
Tetramethylene dimethacrylate 2082-81-7	sediment (freshwater)		mofal	ult.ch	3,12 mg/kg	5	mofakult.ch	
Tetramethylene dimethacrylate 2082-81-7	sediment (marine water)				0,312 mg/kg			
Tetramethylene dimethacrylate 2082-81-7	Soil				0,573 mg/kg			
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	aqua (freshwater)		0,164 mg/l					
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	aqua (marine water)	i.ch	0,0164 mg/l		mo	fakult.ch	\$	
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	sewage treatment plant (STP)		10 mg/l					
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	aqua (intermittent releases)		0,164 mg/l					
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	sediment (freshwater)		molai	turt.ch	1,85 mg/kg	*	Molakult.cm	
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	sediment (marine water)				0,185 mg/kg			
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	Soil				0,274 mg/kg			
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	Air mofakult	ich		5	ma	fakult.ch	no hazard identified	
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	Predator						no potential for bioaccumulation	
.alpha.,.alphaDimethylbenzyl hydroperoxide 80-15-9	aqua (freshwater)		0,0031 mg/l					
.alpha.,.alphaDimethylbenzyl hydroperoxide 80-15-9 mofakult.ch	aqua (intermittent releases)		0,031 mg/l mofal	cult.ch		0	mofakult.ch	
.alpha.,.alphaDimethylbenzyl hydroperoxide 80-15-9	aqua (marine water)		0,00031 mg/l			7-		
.alpha.,.alphaDimethylbenzyl hydroperoxide 80-15-9	sewage treatment plant (STP)		0,35 mg/l					
.alpha.,.alpha.,-Dimethylbenzyl hydroperoxide 80-15-9	sediment (freshwater)	.ch	5		0,023 mg/kg	fakult.ch	0	
.alpha.,.alphaDimethylbenzyl hydroperoxide 80-15-9	sediment (marine water)				0,0023 mg/kg			
.alpha.,.alphaDimethylbenzyl hydroperoxide	Soil				0,0029 mg/kg			
80-15-9 mofakult.ch Maleic acid	aqua		0,1 mg/l	ult.ch		Ø	mofakult.ch	
110-16-7 Maleic acid	(freshwater)		0,4281					
110-16-7	aqua (intermittent releases)		mg/l					
Maleic acid 110-16-7	sediment (freshwater)				0,334 mg/kg			
Maleic acid 110-16-7	sewage treatment plant (STP)	i ch	44,6 mg/l		, s me	rakult.ch	9	
Maleic acid 110-16-7	aqua (marine water)		0,01 mg/l					

SDS No.: 541371 V010.1 LOCTITE 577

Page 7 of 17

Maleic acid 110-16-7	sediment (marine water)		0,0334 mg/kg	
Maleic acid molakult.cf	Soil	mofakult.ch	0,0415 mg/kg	mofakult.ch

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value mofakult.ch	Remarks
Tetramethylene dimethacrylate 2082-81-7	Workers	dermal	Long term exposure - systemic effects		4,2 mg/kg	
Tetramethylene dimethacrylate 2082-81-7	Workers	inhalation	Long term exposure - systemic effects		14,5 mg/m3	
Tetramethylene dimethacrylate 2082-81-7	General population	inhalation	Long term exposure - systemic effects	h	4,3 mg/m3	mofakult.ch
Tetramethylene dimethacrylate 2082-81-7	General population	dermal	Long term exposure - systemic effects		2,5 mg/kg	
Tetramethylene dimethacrylate 2082-81-7	General population	oral	Long term exposure - systemic effects		2,5 mg/kg mofakult.ch	D
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	sh .	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	7
Maleic acid 110-16-7	Workers	dermal	Acute/short term exposure - local effects		0,55 mg/cm2	
Maleic acid 110-16-7 mofakult.ch	Workers	dermal	Long term exposure - local effects	h	0,04 mg/cm2	mofakult.ch
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	7/
Maleic acid 110-16-7	Workers	inhalation	Long term exposure - systemic effects		3 mg/m3	
Maleic acid 110-16-7 mofakult.ch	Workers	inhalation	Long term exposure - local of effects	h	3 mg/m3	mofakult.ch
Maleic acid 110-16-7	Workers	inhalation	Acute/short term exposure - systemic effects		3 mg/m3	

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Biological Exposure Indices:

8.2. Exposure controls:

Engineering controls:

Ensure good ventilation/extraction.

Respiratory protection:

Not needed.

Hand protection:

Recommended are gloves made from Nitril rubber (Material thickness >0,1 mm, Perforation time < 30s). Gloves should be replaced after each short time contact or contamination. Available at laboratory specialized trade or at pharmacies / chemist's shops.

In the case of longer contact protective gloves made from nitrile rubber are recommended according to EN 374.

material thickness > 0.2 mm

Perforation time > 10 minutes

In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced mofakult.ch immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

Skin protection:

Suitable protective clothing

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

Advices to personal protection equipment:

morakult on 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 vellow Odor mild, Acrylic Melting point Not available. mofakult.ch Solidification temperature mofakult.ch < -30 °C (< -22 °F)

Initial boiling point > 150 °C (> 302 °F)no method Flammability The product is not flammable.

Not applicable, The product is not flammable. Explosive limits

> 100 °C (> 212 °F); no method Flash point

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

Not applicable, Substance/mixture is not self-reactive, no mofakult.ch Decomposition temperature

organic peroxide and does not decompose under foreseen

conditions of use

рН Not applicable, Product is non-polar/aprotic.

Viscosity (kinematic) > 20,5 mm2/s

(40 °C (104 °F);)

Viscosity, dynamic 70.000,00 - 130.000,00 mPa.s LCT STM 10; Viscosity Brookfield

(Brookfield; Instrument: RVT; 25 °C (77 °F);

speed of rotation: 2,5 min-1; Spindle No: 6)

Solubility (qualitative)

(20 °C (68 °F); Solvent: Water)

Slight

SDS No.: 541371 V010.1 LOCTITE 577

Page 9 of 17

Partition coefficient: n-octanol/water

Not applicable Mixture

Vapour pressure

< 30

(50 °C (122 °F))

Vapour pressure

(20 °C (68 °F))

Density (20 °C (68 °F))

Relative vapour density:

(20 °C)

Particle characteristics

< 300 mbar;no method < 0,13 mbar

1,15 - 1,2 g/cm3 no method

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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

None if used for intended purpose.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

None if used for intended purpose.

10.5. Incompatible materials

None if used properly.

10.6. Hazardous decomposition products

None known.

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
Tetramethylene dimethacrylate 2082-81-7	LD50	10.066 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	LD50	10.837 mg/kg	rat	not specified morakult.ch
Acetic acid, 2- phenylhydrazide 114-83-0	LD50	270 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 mofakult.c	rat	not specified mofakult.ch
Menadione 58-27-5	LD50	500 mg/kg	rat	not specified

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			
	Tetramethylene	LD50	> 3.000 mg/kg	rabbit	not specified
	dimethacrylate				
mofakult.cl	2082-81-7		mofakult.c	h	mofakult.ch
	2,2'-Ethylenedioxydiethyl	Acute	> 5.000 mg/kg		Expert judgement
	dimethacrylate	toxicity			
	109-16-0	estimate			
		(ATE)			
	Cumene hydroperoxide	Acute	1.100 mg/kg		Expert judgement
	80-15-9	toxicity			
	and of alm all a	estimate			folially also
	mofakult.c	(ATE)			ofakult.ch 🔘 mo
, ,	maleic acid	LD50	1.560 mg/kg	rabbit	not specified
	110-16-7				

Acute inhalative toxicity:

mofakult.ch 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	ifolgult ole		Expert judgement
Cumene hydroperoxide 80-15-9	LC50	1,370 mg/l	vapour	4 h	rat	not specified

Skin corrosion/irritation:

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

mofakult.ch			mofakult d	:h		mofakult ch	
morandon	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 Test		
\Diamond	maleic acid mofakult. 110-16-7	irritating	24 h	human	Patch Test	S	molfa

Serious eye damage/irritation:

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

h	Hazardous substances	Result	Exposure	Species	Method mofakult.ch
	CAS-No.		time		
ſ	2,2'-Ethylenedioxydiethyl	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
	dimethacrylate				
	109-16-0				
ſ	maleic acid	highly		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
	110-16-7	irritating			

Urheber des Dokuments bleibt der ursprüngliche Herausge

SDS No.: 541371 V010.1 LOCTITE 577 Page 11 of 17

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
mofakult.ch	CAS-No. Tetramethylene dimethacrylate 2082-81-7	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)
	Menadione 58-27-5	sensitising	Guinea pig maximisation test	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
	Tetramethylene dimethacrylate 2082-81-7	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
\Diamond	Tetramethylene dimethacrylate 2082-81-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without mofakult.c	h	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	Tetramethylene dimethacrylate 2082-81-7	positive	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
	2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
mofakult . cl	2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	negative	in vitro mammalian cell micronucleus test	with and without		OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)
\Diamond	Cumene hydroperoxide 80-15-9 mofakult.c	positive	bacterial reverse mutation assay (e.g Ames test)	without mofakult.c	n	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
,	maleic acid 110-16-7	negative	bacterial reverse mutation assay (e.g Ames test)	no data		Ames Test
	maleic acid 110-16-7	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro 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	Result	Route of	Exposure	Species	Sex	Method	
CAS-No.		application	time /				
mofakult.d	:h		Frequency	akult.ch	C	mo	fakult.ch
			of treatment				
maleic acid	not carcinogenic	oral: feed	2 y	rat	male/female	OECD Guideline 451	
110-16-7			daily			(Carcinogenicity	
						Studies)	

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SDS No.: 541371 V010.1 LOCTITE 577 Page 12 of 17

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			mo	Toxicity Study with the	
					Reproduction /	7~
					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)	
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STOT-single exposure:

No data available.

mofakult.ch 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
Ø	2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	NOAEL 1.000 mg/kg	oral: gavage	daily mofakult.ch	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
mofakult.ch	maleic acid 110-16-7	NOAEL >= 40 mg/kg	oral: feed	90 d daily	rat mofa	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable



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SDS No.: 541371 V010.1 LOCTITE 577

Page 13 of 17

SECTION 12: Ecological information

General ecological information:

Do not empty into drains, soil or bodies of 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 CAS-No.	Value type	Value	Exposure time	Species	Method
Tetramethylene dimethacrylate 2082-81-7	LC50	32,5 mg/l	48 h mofaku	it.ch 🔘	DIN 38412-15 mofakul
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

Toxicity (Daphnia):

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

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
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)
Menadione 58-27-5	EC50	0,31 mg/l mofakult.ch	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 time	Species	Method mofakul
Tetramethylene dimethacrylate 2082-81-7	NOEC	5,09 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	NOEC	32 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
maleic acid 110-16-7	NOEC	10 mg/l kult.ch	21 d	Daphnia magna	mofakult other guideline:

Toxicity (Algae):



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

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Tetramethylene dimethacrylate 2082-81-7	EC50	9,79 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Tetramethylene dimethacrylate 2082-81-7	NOEC	2,11 mg/l	72 h	Desmodesmus subspicatus	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 mofakult.ch	EC50	3,1 mg/l	72 h mofaku	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)
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)
Menadione 58-27-5	EC50	0,064 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Menadione 58-27-5	NOEC	0,009 mg/l	72 h	Desmodesmus subspicatus	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				
Tetramethylene dimethacrylate 2082-81-7	NOEC	20 mg/l	28 d	activated sludge, domestic	not specified
Cumene hydroperoxide 80-15-9	EC10	70 mg/l	30 min	not specified	not specified
maleic acid 110-16-7	EC10	44,6 mg/l	18 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm- Test)

12.2. Persistence and degradability

The product is not biodegradable.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Tetramethylene dimethacrylate 2082-81-7	readily biodegradable Ch	aerobic	84 %	28 d mc	OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels (Headspace Test)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	readily biodegradable	aerobic	85 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Cumene hydroperoxide 80-15-9 mofakult.ch	not readily biodegradable.	aerobic	3 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
maleic acid 110-16-7	readily biodegradable	aerobic	97,08 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Menadione 58-27-5	not inherently biodegradable	aerobic	0,000000 %	28 d	OECD Guideline 302 C (Inherent Biodegradability: Modified MITI Test (II))

12.3. Bioaccumulative potential

Hazardous substances CAS-No.	Bioconcentratio n factor (BCF)	Exposure time	Temperature	Species	Method
Cumene hydroperoxide 80-15-9	9,1	2	motakult.c	calculation	OECD Guideline 305 (Bioconcentration: Flow-through
80-13-9					Fish Test)

12.4. Mobility in soil

Cured adhesives are immobile.

	IIIOIa	Kultion	morakuluch
Hazardous substances CAS-No.	LogPow	Temperature	Method
Tetramethylene dimethacrylate 2082-81-7	3,1		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)
Acetic acid, 2- phenylhydrazide 114-83-0	0,74		not specified
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 mofa	20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Menadione 58-27-5	2,43	30 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

12.5. Results of PBT and vPvB assessment

Ø	Hazardous substances CAS-No.	PBT / vPvB
	Tetramethylene dimethacrylate 2082-81-7	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
	2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
mofakult.ch	Cumene hydroperoxide 80-15-9	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
	maleic acid 110-16-7 mof	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
	Menadione 58-27-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations

mofakult.ch 13.1. Waste treatment methods

Product disposal:

Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

Waste code mofakult.ch 080409

rheber des Dokuments bleibt der ursprüngliche Herausge

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Not dangerous goods

SDS No.: 541371 V010.1 LOCTITE 577 Page 16 of 17

SECTION 14: Transport information

14.1. UN number or ID number

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

14.2. UN proper shipping name

IATA

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

14.3. Transport hazard class(es)

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

14.4. Packing group

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

mofakult cl 14.5. Environmental hazards of akult ch

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

14.6. Special precautions for user

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

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):

VOC content (2010/75/EC)

< 3 %

sber des Dokuments bleibt der ursprüngliche Heraus

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Not applicable

Not applicable

Not applicable

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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.

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: of a kult.ch

EU EXPLD 1: Substance with a Union workplace exposure limit

EU EXPLD 2: 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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