

Safety Data Sheet according to GB/T 16483 and GB/T 17519

LOCTITE 577 TB50ML CH

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Material No.: 2982649

V001.12

Revision: 20.02.2025 printing date: 18.08.2025

1. Identification of the substance/preparation and of the company/undertaking

Product name: LOCTITE 577 TB50ML CH

Intended use: Adhesive

Manufacturer/Importer/Distributor Representative Company

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Revision date: 20.02.2025

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2. Hazards identification

EMERGENCY OVERVIEW:

yellow, Mild, liquid, May cause an allergic skin reaction. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Classification of the substance or mixture according to GB 30000.1 (Specification for classification and labelling of chemicals—Part 1: General rules):

Hazard Class Hazard Category

Skin sensitizer Category 1
Acute hazards to the aquatic Category 2

environment

Chronic hazards to the aquatic Category 3

environment

Label elements according to GB 15258 (General rules for preparation of precautionary label for chemicals):

Hazard pictogram:

Signal word: Warning

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Hazard statement: H317 May cause an allergic skin reaction.

H401 Toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects. **Prevention:** P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves.

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.

Disposal: P501 Dispose of contents/container to an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product characteristics at time of

disposal.

Physical and chemical hazards:

Based on current information, there are no physical or chemical hazards.

Health hazards:

May cause an allergic skin reaction.

Environmental hazards:

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

3. Composition / information on ingredients

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Substance or Mixture:

Mixture

Declaration of the ingredients according to GB 30000.1:

Hazard component CAS-No.	Content	GHS Classification
Tetramethylene dimethacrylate	10- < 20 %	Skin sensitizer 1B
2082-81-7		H317
		Acute hazards to the aquatic environment 2 H401
Oleic acid, ethoxylated 9004-96-0	10- < 20 %	Acute hazards to the aquatic environment 2 H401
2,2'-Ethylenedioxydiethyl dimethacrylate	2.5- < 10 %	Skin sensitizer 1B
109-16-0		H317
		Acute hazards to the aquatic environment 3 H402
Ethene, tetrafluoro-, homopolymer 9002-84-0	1- < 10 %	Acute toxicity 5; Oral H303
Acetic acid, 2-phenylhydrazide	0.25-< 1 %	Acute toxicity 4; Oral
114-83-0		H302
		Skin sensitizer 1
		H317 Carcinogenicity 2
		H351
		Acute hazards to the aquatic environment 1
		H400
		Chronic hazards to the aquatic environment 1 H410
maleic acid	0.25-< 1 %	Acute toxicity 4; Oral
110-16-7		H302
		Acute toxicity 4; Dermal H312
		Skin corrosion/irritation 2
		H315
		Serious eye damage/eye irritation 2A H319
		Skin sensitizer 1
		H317
		Specific target organ toxicity - single exposure 3 H335
		Acute hazards to the aquatic environment 3 H402
Reaction mass of N,N'-ethane-1,2-diylbis(12-	0.1-< 1 %	Skin sensitizer 1
hydroxyoctadecan-1-amide), Octadecanamide, 12-		H317
hydroxy-N-[2-[(1-oxooctadecyl)amino]ethyl]		
123-26-2 Menadione	0.0025-< 0.025 %	Acute toxicity 4; Oral
58-27-5		H302 Skin corrosion/irritation 2
		H315
		Serious eye damage/eye irritation 2A
		H319
		Skin sensitizer 1
		H317 Specific target organ toxicity - single exposure 3
		H335
		Acute hazards to the aquatic environment 1 H400
		Chronic hazards to the aquatic environment 1 H410

Only hazardous ingredients for which a classification according to GB 30000.1 is already available are displayed in this table. For full text of the Hazard statements see section 16 "Other information".

4. First aid measures

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Description of necessary first-aid measures:

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.

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

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

Most important symptoms/effects,

acute and delayed:

The most important known symptoms and effects are described in chapters 2 and/or 11.

Indication of any immediate medical attention and special treatment needed, if necessary: Post-exposure treatment should focus on controlling the patient's clinical symptoms and

signs.

5. Fire fighting measures

Suitable extinguishing media: Carbon dioxide, foam, powder

Fire-fighting method: In case of fire, keep containers cool with water spray.

Special hazards arising from the

substance or mixture:

Oxides of carbon, oxides of nitrogen, irritating organic vapors.

Special protective actions for fire-

fighters:

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides

(NOx) can be released.

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

6. Accidental release measures

Personal precautions, protective equipment and emergency

procedures:

Avoid skin and eye contact. Ensure adequate ventilation.

Environmental precautions: Do not let product enter drains.

Methods and materials for containment and cleaning 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.

Hygiene measures:

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7. Handling and storage

Precautions for safe handling: Use only in well-ventilated areas.

Avoid skin and eye contact.

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

Do not eat, drink, smoke or take snuff while working.

Wash thoroughly after handling.

Keep absolute tidiness at the working place. Avoid contact with skin and eyes. Remove soiled or soaked clothing immediately. Wash off any contamination that gets onto the skin

with plenty of water and soap, skin care.

Conditions for safe storage, including any incompatibilities:

Store in original containers at 8-21°C (46.4-69.8°F) and do not return residual materials to

containers as contamination may reduce the shelf life of the bulk product.

8. Exposure controls / personal protection

Controls parameters:

Occupational Exposure Limits:

Hazardous components CAS-No.	GBZ 2.1-2019	ACGIH	NIOSH	OSHA
Ethene, homopolymer 9002-88-4	5 mg/m3PC-TWA Total dust. 10 mg/m3 TWA Inhalable particles. 3 mg/m3 TWA		none	none
		Respirable particles.		
Silica, amorphous, fumed, crystfree	8 mg/m3PC-TWA Total		none	none
112945-52-5	dust.	3 mg/m3 TWA		
		Respirable particles.		
		10 mg/m3 TWA		
		Inhalable particles.		

Biological Exposure Indices: no data available

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

Eye protection: Wear protective glasses.

Body protection: Wear suitable protective clothing.

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.

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9. Physical and chemical properties

Physical state: liquid Appearance: yellow Evaporation rate: Not available. Odor: Mild

pH: Not applicable, Product is non- Melting point: Not applicable, Product is a liquid

polar/aprotic.

Boiling point: > 150 °C (> 302 °F) Density: 1.15 - 1.2 g/cm3 Vapor density: > 1 Vapor pressure: Not available.

Flash point: $> 100 \,^{\circ}\text{C} (> 212 \,^{\circ}\text{F})$, no Ignition temperature: Not available.

method / method unknown

Lower explosive limit: Not available. Upper explosive limit: Not available.

Solubility in water Not available. Viscosity: 70,000.00 - 130,000.00 mPa.s

> 20.5 mm2/s

Auto-ignition temperature: Not available. Flammability: Not available.

Octanol / water distribution Not applicable, Mixture Decomposition temperature: Not applicable, Substance/mixture

is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use

VOC: Bulk adhesive

coefficient:

Acrylate

Assembly Industry

< 80 g/kg, GB 33372-2020 Limit of volatile organic compounds content in adhesive

10. Stability and reactivity

Reactivity: Reaction with strong acids.

Reacts with strong oxidants.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: See section reactivity.

Conditions to avoid: No decomposition if used according to specifications.

Incompatible materials: See section reactivity.

Hazardous decomposition carbon oxides. products: nitrogen oxides

Irritating organic vapours.

11. Toxicological information

General toxicological information:No laboratory animal data available.

Acute oral toxicity:

Tetramethylene dimethacrylate	Value type	LD50		
2082-81-7	Value	10,066 mg/kg		
	Species	rat		
	Method	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)		
Oleic acid, ethoxylated	Value type	LD50		
9004-96-0	Value	> 2,000 mg/kg		
	Species	rat		
	Method	not specified		
2,2'-Ethylenedioxydiethyl	Value type	LD50		
dimethacrylate	Value	10,837 mg/kg		
109-16-0	Species	rat		
	Method	not specified		
Ethene, tetrafluoro-, homopolymer	Value type	LD50		
9002-84-0	Value	4,230 mg/kg		
	Species	rat		
	Method	not specified		
Acetic acid, 2-phenylhydrazide	Value type	LD 50		
114-83-0	Value	270 mg/kg		
	Species	Mouse		
	Method			
Acetic acid, 2-phenylhydrazide	Value type	LD50		
114-83-0	Value	310 mg/kg		
	Species	rat		
	Method	OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down		
		Procedure)		
maleic acid	Value type	LD 50		
110-16-7	Value	2,400 mg/kg		
	Species	Mouse		
	Method			
maleic acid	Value type	LD 50		
110-16-7	Value	708 mg/kg		
	Species	Rat		
	Method			
maleic acid	Value type	LD50		
110-16-7	Value	708 mg/kg		
	Species	rat		
	Method	not specified		
Reaction mass of N,N'-ethane-1,2-	Value type	LD50		
diylbis(12-hydroxyoctadecan-1-	Value	> 2,000 mg/kg		
amide), Octadecanamide, 12-	Species	rat		
hydroxy-N-[2-[(1-	Method	OECD Guideline 423 (Acute Oral toxicity)		
oxooctadecyl)amino]ethyl] 123-26-2				
Menadione	Volue true	1 D 50		
Menadione 58-27-5	Value type Value	LD 50		
30-21-3	Value Species	500 mg/kg Mouse		
	Method	IVIOUSE		
Menadione	Value type	I D50		
58-27-5	Value type Value	LD50		
30-27-3 	Species	500 mg/kg rat		
	Method	not specified		
	1,1001100	not specified		

Acute dermal toxicity:

Tetramethylene dimethacrylate	Value type	LD50	
2082-81-7	Value	> 3,000 mg/kg	
	Species	rabbit	
	Method	not specified	
2,2'-Ethylenedioxydiethyl	Value type	Acute toxicity estimate (ATE)	
dimethacrylate	Value	> 5,000 mg/kg	

109-16-0	Species		
	Method	Expert judgement	
Ethene, tetrafluoro-, homopolymer	Value type	Acute toxicity estimate (ATE)	
9002-84-0	Value	> 5,000 mg/kg	
	Species		
	Method	Expert judgement	
maleic acid	Value type	LD 50	
110-16-7	Value	1,560 mg/kg	
	Species	Rabbit	
	Method		
maleic acid	Value type	LD50	
110-16-7	Value	1,560 mg/kg	
	Species	rabbit	
	Method	not specified	

Acute inhalative toxicity:

2,2'-Ethylenedioxydiethyl	Value type	Acute toxicity estimate (ATE)
dimethacrylate	Value	28.17 mg/l
109-16-0	Exposure time	
	Species	
	Method	Expert judgement
Ethene, tetrafluoro-, homopolymer	Value type	Acute toxicity estimate (ATE)
9002-84-0	Value	> 5 mg/l
	Exposure time	
	Species	
	Method	Expert judgement
maleic acid	Value type	LC 50
110-16-7	Value	> 0.72 mg/l
	Exposure time	1 h
	Species	Rat
	Method	
Reaction mass of N,N'-ethane-1,2-	Value type	LC50
diylbis(12-hydroxyoctadecan-1-	Value	> 5.05 mg/l
amide), Octadecanamide, 12-	Exposure time	4 h
hydroxy-N-[2-[(1-	Species	rat
oxooctadecyl)amino]ethyl]	Method	OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class
123-26-2		(ATC) Method)
Reaction mass of N,N'-ethane-1,2-	Value type	LC 50
diylbis(12-hydroxyoctadecan-1-	Value	> 5.05 mg/l
amide), Octadecanamide, 12-	Exposure time	4 h
hydroxy-N-[2-[(1-	Species	Rat
oxooctadecyl)amino]ethyl] 123-26-2	Method	

Skin corrosion/irritation:

Tetramethylene dimethacrylate	Result	not irritating		
2082-81-7	Exposure time	24 h		
	Species	rabbit		
	Method	FDA Guideline		
Oleic acid, ethoxylated	Result	not irritating		
9004-96-0	Exposure time			
	Species	rabbit		
	Method	not specified		
2,2'-Ethylenedioxydiethyl dimethacrylate	Result	not irritating		
109-16-0	Exposure time	24 h		
	Species	rabbit		
	Method	Draize Test		
Acetic acid, 2-phenylhydrazide	Result	not corrosive		
114-83-0	Exposure time			
	Species	Human, EpiSkinTM (SM), Reconstructed Human Epidermis (RHE)		
	Method	OECD Guideline 431 (In Vitro Skin Corrosion: Reconstructed Human Epidermis (RHE) Test Method)		
Acetic acid, 2-phenylhydrazide	Result	not irritating		
114-83-0	Exposure time			
	Species	Human, EpiSkinTM (SM), Reconstructed Human Epidermis (RHE)		

	Method	OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method)			
maleic acid	Result	irritating			
110-16-7	Exposure time	24 h			
	Species	human			
	Method	Patch Test			
Menadione	Result	not corrosive			
58-27-5	Exposure time				
	Species	Human, EpiDermTM SIT (EPI-200), Reconstructed Human Epidermis (RHE)			
	Method	OECD Guideline 431 (In Vitro Skin Corrosion: Reconstructed Human Epidermis (RHE) Test Method)			
Menadione	Result	irritating or corrosive			
58-27-5	Exposure time	<u> </u>			
	Species	Human, EpiSkinTM (SM), Reconstructed Human Epidermis (RHE)			
	Method	OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method)			

Serious eye damage/irritation:

Tetramethylene dimethacrylate	Result	not irritating		
2082-81-7	Exposure time			
	Species	rabbit		
	Method	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)		
Oleic acid, ethoxylated	Result	not irritating		
9004-96-0	Exposure time			
	Species	rabbit		
	Method	not specified		
2,2'-Ethylenedioxydiethyl dimethacrylate	Result	not irritating		
109-16-0	Exposure time			
	Species	rabbit		
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)		
Acetic acid, 2-phenylhydrazide	Result	not irritating		
114-83-0	Exposure time			
	Species	Chicken, eye, isolated		
	Method	OECD Guideline 438 (Isolated Chicken Eye Test Method)		
maleic acid	Result	highly irritating		
110-16-7	Exposure time			
	Species	rabbit		
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)		
Menadione	Result	no prediction can be made		
58-27-5	Exposure time			
	Species	Bovine, cornea, in vitro test		
	Method	OECD Guideline 437 (BCOP)		
Menadione	Result	no prediction can be made		
58-27-5	Exposure time			
	Species	Reconstructed three dimensional human cornea model (EpiOcular TM)		
	Method	OECD Guideline 492 (Reconstructed Human Cornea-like Epithelium (RhCE) Test Method)		

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Respiratory or skin sensitization:

Tetramethylene dimethacrylate	Result	sensitising		
2082-81-7	Test type	Mouse local lymphnode assay (LLNA)		
	Species	mouse		
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)		
2,2'-Ethylenedioxydiethyl	Result	sensitising		
dimethacrylate	Test type	Mouse local lymphnode assay (LLNA)		
109-16-0	Species	mouse		
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)		
Acetic acid, 2-phenylhydrazide	Result	positive		
114-83-0	Test type	Direct peptide reactivity assay (DPRA)		
	Species	cysteine and lysine, in chemico test		
	Method	OECD Guideline 442C (Direct Peptide Reactivity Assay (DPRA))		
Acetic acid, 2-phenylhydrazide	Result	positive		
114-83-0	Test type	Activation of keratinocytes		
	Species	human keratinocytes, in vitro test		
	Method	OECD Guideline 442D (ARE-Nrf2 Luciferase Test Method)		
Acetic acid, 2-phenylhydrazide	Result	positive		
114-83-0	Test type	activation of dendritic cells		
	Species	human monocytes, in vitro test		
	Method	OECD Guideline 442E (H-CLAT: Human Cell Line Activation Test)		
maleic acid	Result	sensitising		
110-16-7	Test type	Mouse local lymphnode assay (LLNA)		
	Species	mouse		
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)		
maleic acid	Result	sensitising		
110-16-7	Test type	Mouse local lymphnode assay (LLNA)		
	Species	guinea pig		
	Method	OECD Guideline 406 (Skin Sensitisation)		
Reaction mass of N,N'-ethane-1,2-	Result	sensitising		
diylbis(12-hydroxyoctadecan-1-	Test type	Guinea pig maximisation test		
amide), Octadecanamide, 12-	Species	guinea pig		
hydroxy-N-[2-[(1- oxooctadecyl)amino]ethyl] 123-26-2	Method	OECD Guideline 406 (Skin Sensitisation)		
Menadione	Result	sensitising		
58-27-5	Test type	Guinea pig maximisation test		
	Species	guinea pig		
	Method	not specified		

Germ cell mutagenicity:

Tetramethylene dimethacrylate	Result	negative		
2082-81-7	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)		
2002 01 /	Metabolic activation / Exposure time	with and without		
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)		
Tetramethylene dimethacrylate	Result	negative		
2082-81-7	Type of study / Route of administration	in vitro mammalian chromosome aberration test		
2002 01 /	Metabolic activation / Exposure time	with and without		
	Method	OECD Guideline 473 (In vitro Mammalian Chromosome		
	Wethou	Aberration Test)		
Tetramethylene dimethacrylate	Result	positive without metabolic activation		
2082-81-7	Type of study / Route of administration	in vitro mammalian chromosome aberration test		
	Metabolic activation / Exposure time	with and without		
	Method	OECD Guideline 473 (In vitro Mammalian Chromosome		
		Aberration Test)		
Tetramethylene dimethacrylate	Result	negative		
2082-81-7	Type of study / Route of administration	in vitro mammalian chromosome aberration test		
	Metabolic activation / Exposure time	with and without		
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene		
		Mutation Test)		
Tetramethylene dimethacrylate	Result	negative		
2082-81-7	Type of study / Route of administration	oral: gavage		
	Metabolic activation / Exposure time			
	Species	mouse		
	Method	OECD Guideline 474 (Mammalian Erythrocyte		
		Micronucleus Test)		
2,2'-Ethylenedioxydiethyl	Result	negative		
dimethacrylate	Type of study / Route of administration	mammalian cell gene mutation assay		
109-16-0	Metabolic activation / Exposure time	with and without		
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene		
		Mutation Test)		
2,2'-Ethylenedioxydiethyl	Result	negative		
dimethacrylate 109-16-0	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)		
109-10-0	Metabolic activation / Exposure time Method	with and without		
2.21 E4111:1:-411	Result	OECD Guideline 471 (Bacterial Reverse Mutation Assay)		
2,2'-Ethylenedioxydiethyl dimethacrylate	Type of study / Route of administration	negative in vitro mammalian cell micronucleus test		
109-16-0	Metabolic activation / Exposure time	with and without		
107 10 0	Method	OECD Guideline 487 (In vitro Mammalian Cell		
	Wethod	Micronucleus Test)		
Acetic acid, 2-phenylhydrazide	Result	positive		
114-83-0	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)		
111 03 0	Metabolic activation / Exposure time	with and without		
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)		
Acetic acid, 2-phenylhydrazide	Result	negative		
114-83-0	Type of study / Route of administration	in vitro mammalian cell micronucleus test		
	Metabolic activation / Exposure time	with and without		
	Method	OECD Guideline 487 (In vitro Mammalian Cell		
	1.22.22	Micronucleus Test)		
maleic acid	Result	negative		
110-16-7	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)		
	Metabolic activation / Exposure time	no data		
	Method	Ames Test		
maleic acid	Result	negative		
110-16-7	Type of study / Route of administration	mammalian cell gene mutation assay		
	Metabolic activation / Exposure time	with and without		
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene		
		Mutation Test)		
Menadione	Result	negative		
58-27-5	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)		
	Metabolic activation / Exposure time	with and without		
	Method	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
Acetic acid, 2- phenylhydrazide 114-83-0	carcinogenic	oral: drinking water	continuous	mouse	male/female	not specified
maleic acid 110-16-7	not carcinogenic	oral: feed	2 y daily	rat	male/female	OECD Guideline 451 (Carcinogenicity Studies)

Reproductive toxicity:

No data available.

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 components	Result / Value	Route of	Exposure time /	Species	Method
CAS-No.		application	Frequency of		
			treatment		
2,2'-Ethylenedioxydiethyl	NOAEL 1,000 mg/kg	oral: gavage	daily	rat	OECD Guideline 422
dimethacrylate					(Combined Repeated
109-16-0					Dose Toxicity Study with
					the Reproduction /
					Developmental Toxicity
					Screening Test)
maleic acid	NOAEL >= 40 mg/kg	oral: feed	90 d	rat	OECD Guideline 408
110-16-7			daily		(Repeated Dose 90-Day
					Oral Toxicity in Rodents)

Aspiration hazard:

No data available.

12. Ecological information

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General ecological information:

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

Toxicity:

Toxicity (Fish):

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

Hazardous components CAS-No.	Value type	Value	Exposure time	Species	Method
Tetramethylene dimethacrylate 2082-81-7	LC50	32.5 mg/l	48 h		DIN 38412-15
Oleic acid, ethoxylated 9004-96-0	LC50	> 1 - 10 mg/l	96 h	fish	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)
Ethene, tetrafluoro-, homopolymer 9002-84-0	LC50	Toxicity > Water solubility	96 h		Weight of evidence
maleic acid 110-16-7	LC50	> 245 mg/l	48 h	Leuciscus idus	DIN 38412-15
Reaction mass of N,N'- ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy- N-[2-[(1- oxooctadecyl)amino]ethyl] 123-26-2	LL50	Toxicity > Water solubility	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Reaction mass of N,N'- ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy- N-[2-[(1- oxooctadecyl)amino]ethyl] 123-26-2	NOELR	Toxicity > Water solubility	32 d	Pimephales promelas	OECD Guideline 210 (fish early lite stage toxicity test)

Toxicity (aquatic invertebrates):

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

Hazardous components	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Oleic acid, ethoxylated 9004-96-0	EC50	> 1 - 10 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Ethene, tetrafluoro-, homopolymer 9002-84-0	EC50	Toxicity > Water solubility	48 h		Weight of evidence
Acetic acid, 2- phenylhydrazide 114-83-0	EC50	1.1 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)
Reaction mass of N,N'- ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy	EL50	Toxicity > Water solubility	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

N-[2-[(1- oxooctadecyl)amino]ethyl] 123-26-2				
Menadione 58-27-5	EC50	0.31 mg/l	48 h	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity (aquatic invertebrates):

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

Hazardous components CAS-No.	Value type	Value	Exposure time	Species	Method
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	21 d	Daphnia magna	other guideline:
Reaction mass of N,N'- ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy- N-[2-[(1- oxooctadecyl)amino]ethyl] 123-26-2	NOEC	Toxicity > Water solubility	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

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

Hazardous components 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)
Ethene, tetrafluoro-, homopolymer 9002-84-0	EC50	Toxicity > Water solubility	72 h		Weight of evidence
Acetic acid, 2- phenylhydrazide 114-83-0	EC50	0.258 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Acetic acid, 2- phenylhydrazide 114-83-0	NOEC	0.012 mg/l	72 h	Pseudokirchneriella subcapitata	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)
Reaction mass of N,N'- ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy- N-[2-[(1- oxooctadecyl)amino]ethyl] 123-26-2	EC50	Toxicity > Water solubility	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Reaction mass of N,N'- ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy- N-[2-[(1- oxooctadecyl)amino]ethyl] 123-26-2	EC10	Toxicity > Water solubility	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 (microorganisms):

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

Hazardous components CAS-No.	Value type	Value	Exposure time	Species	Method
Tetramethylene dimethacrylate 2082-81-7		20 mg/l	28 d	activated sludge, domestic	not specified
maleic acid 110-16-7	EC10	44.6 mg/l	18 h	•	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-

	Test)

Persistence and degradability

Hazardous components CAS-No.	Result	Test type	Degradability	Exposure time	Method
Tetramethylene dimethacrylate 2082-81-7	readily biodegradable	aerobic	84 %	28 d	OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels (Headspace Test)
Oleic acid, ethoxylated 9004-96-0	readily biodegradable	not specified	> 60 %	28 day	OECD 301 A - F
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	readily biodegradable	aerobic	85 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Acetic acid, 2- phenylhydrazide 114-83-0	not readily biodegradable.	aerobic	39 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
maleic acid 110-16-7	readily biodegradable	aerobic	97.08 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Reaction mass of N,N'- ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy- N-[2-[(1- oxooctadecyl)amino]ethyl] 123-26-2	not readily biodegradable.	aerobic	22 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Reaction mass of N,N'- ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy- N-[2-[(1- oxooctadecyl)amino]ethyl] 123-26-2	not inherently biodegradable	aerobic	37 %	60 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Menadione 58-27-5	not inherently biodegradable	aerobic	0.000000 %	28 d	OECD Guideline 302 C (Inherent Biodegradability: Modified MITI Test (II))

Bioaccumulative potential

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Mobility in soil:

Hazardous components 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		QSAR (Quantitative Structure Activity Relationship)
maleic acid 110-16-7	-1.3	20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Reaction mass of N,N'- ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy- N-[2-[(1- oxooctadecyl)amino]ethyl] 123-26-2	5.86		OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Menadione 58-27-5	2.43	30 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

Endocrine disrupting properties

No data available.

Other adverse effects

No data available.

13. Disposal considerations

Product disposal: 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.

14. Transport information

Road transport CN_DG:

Not dangerous goods

Marine transport IMDG:

Not dangerous goods

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Air transport IATA: Not dangerous goods

Notice For Transportation: Transport according to local and national regulations. Ensure

containers will not leak, collapse, or being damaged when transported. DO NOT transport with incompatible materials. Transportation vehicle should be equipped with right fire-fighting equipment in case of emergency. Avoid solarization, drenched and high temperature when

transported.

15. Regulatory information

The following laws and regulations lay down provisions in terms of chemicals safety use, storage, transportation, loading/unloading, classification as well as symbol.

"Law of the People's Republic of China on Work Safety".

Law of the People's Republic of China on the Prevention and Treatment of Occupational Diseases".

"Law of the People's Republic of China on environmental protection".

"Regulation on the Safety Management of Hazardous Chemicals".

"Regulations on License to Work Safety".

China Inventory of Existing Chemicals:

All components are listed or are exempt from Inventory of Existing Chemical

Substances in China.

16. Other information

Issue date: 18.08.2025

Issue department: Product Safety & Regulatory Affairs for China

RSN No.: 000000541371

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Disclaimer:

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Others:

The full text of all abbreviations indicated by codes in this safety data sheet section 3 are as follows:

H302 Harmful if swallowed.

H303 May be harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H400 Very toxic to aquatic life.

H401 Toxic to aquatic life.

H402 Harmful to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.