

Safety Data Sheet

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SDS No.: 541371

V001.8

Revision: 30.07.2024 printing date: 13.09.2024

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

Product name:

LOCTITE 577 TB250ML EN/CH/JP

Other means of identification:

LOCTITE 577 TB250ML EN/CH/JP

LOCTITE 577 TB250ML EN/CH/JP

Product code:

IDH2099612

Recommended use of the chemical and restrictions on use

Intended use:

Adhesive

Manufacturer/Importer/Distributor Representative Company

Henkel Thailand Ltd. The Offices at Centralworld,

35th Floor, 999/9 Rama 1 Rd., Kwang Patumwan, Khet Patumwan,

10330 Bangkok

Thailand

Phone: +66 (2209) 8000 Fax-no.: +66 (2209) 8008

E-mail address of person responsible for Safety Data Sheet:

ap-ua-psra.sea@henkel.com

Emergency Telephone for Chemical Accidents:

FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call CHEMTREC: +1 703-741-5970

Section 2. Hazards identification

GHS Classification:

<u>Hazard Class</u> <u>Hazard Category</u>
Skin corrosion/irritation Category 2

Skin corrosion/irritation Category 2
Serious eye damage/eye irritation
Skin sensitizer Category 1
Specific terrot except toxicity.

Specific target organ toxicity - Category 3 respiratory tract irritation

single exposure

GHS label elements:

Hazard pictogram:



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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.

Precaution:

Prevention:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

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

P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

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

P362+P364 Take off contaminated clothing and wash it before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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.

Section 3. Composition / information on ingredients

Substance or Mixture:

Mixture

Declaration of hazardous chemical:

Hazard component CAS-No.	Content	GHS Classification
Tetramethylene dimethacrylate	10- 30 %	Skin sensitizer 1B
2082-81-7		H317 Acute hazards to the aquatic environment 2 H401
2,2'-Ethylenedioxydiethyl dimethacrylate	1- 10 %	Skin sensitizer 1B
109-16-0		H317 Acute hazards to the aquatic environment 3 H402
Ethene, homopolymer 9002-88-4	1- 10 %	
Silica, amorphous, fumed, crystfree 112945-52-5	1- 10 %	
Acetic acid, 2-phenylhydrazide 114-83-0	0.1- 1 %	Acute toxicity 4; Oral 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 110-16-7	0.1- 1 %	Flammable liquids 4 H227 Organic peroxides E H242 Acute toxicity 4; Oral H302 Acute toxicity 2; Inhalation H330 Acute toxicity 4; Dermal H312 Skin corrosion/irritation 1 H314 Specific target organ toxicity - single exposure 3 H335 Specific target organ toxicity - repeated exposure 2 H373 Acute hazards to the aquatic environment 2 H401 Chronic hazards to the aquatic environment 2 H411 Acute toxicity 4; Oral H302 Acute toxicity 4; Dermal H312 Skin corrosion/irritation 2 H315 Serious eye damage/eye irritation 2A H319 Skin sensitizer 1
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	0.1- 1 %	Skin sensitizer 1 H317 Specific target organ toxicity - single exposure 3 H335 Acute hazards to the aquatic environment 3 H402 Skin sensitizer 1 H317
Menadione 58-27-5	< 0.1 %	Acute toxicity 4; Oral H302 Skin corrosion/irritation 2 H315 Serious eye damage/eye irritation 2A H319 Skin sensitizer 1

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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

Section 4. 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.

Indication of immediate medical attention and special treatment needed:

See section: Description of first aid measures

Section 5. Fire fighting measures

Suitable extinguishing media:

Carbon dioxide, foam, powder

Improper extinguishing media:

High pressure waterjet

Specific hazards arising from the chemical:

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

Special protection equipment and precautions for firefighters:

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

Wear protective equipment.

Additional fire fighting advice:

In case of fire, keep containers cool with water spray.

Section 6. Accidental release measures

Personal precautions:

Avoid skin and eye contact.

Wear protective equipment.

Ensure adequate ventilation.

See advice in section 8

Environmental precautions:

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

Clean-up methods:

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.

Section 7. Handling and storage

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.

Storage:

Store in a cool, dry place. Storage at 8 to 21°C is recommended.

Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

PARTICLES (INSOLUBLE OR POORLY SOLUBLE) NOT OTHERWISE SPECIFIED, INHALABLE PARTICLES 9002-88-4	Value type	Time Weighted Average (TWA):	
į	mg/m ³	10	
	Remarks	ACGIH	
PARTICLES (INSOLUBLE OR POORLY SOLUBLE) NOT OTHERWISE SPECIFIED, RESPIRABLE PARTICLES 9002-88-4	Value type	Time Weighted Average (TWA):	
İ	mg/m ³	3	
	Remarks	ACGIH	
Particles (insoluble or poorly soluble) not otherwise specified, respirable particles 112945-52-5	Value type	Time Weighted Average (TWA):	
	mg/m ³	3	
	Remarks	ACGIH	
Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles 112945-52-5	Value type	Time Weighted Average (TWA):	
	mg/m ³	10	
	Remarks	ACGIH	

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:

Wear protective glasses.

Protective eye equipment should conform to EN166.

Body protection:

Wear suitable protective clothing.

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

Engineering controls:

Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

General protection and hygiene measures:

The workplace should be equipped with an emergency shower and eye-rinsing facility.

Hygienic measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

Take off contaminated clothing and wash before reuse.

Section 9. Physical and chemical properties

Appearance: yellow

high viscosity, liquid

Odor: Mild

Odor threshold (CA): No data available.

pH: Not applicable, Product is non-polar/aprotic.

Melting point / freezing point: Not applicable, Product is a liquid

Specific gravity:No data available.Boiling point:> 150 °C (> 302 °F)Flash point:> 100 °C (> 212 °F)

(no method / method unknown)

Evaporation rate:
No data available.
Flammability (solid, gas):
No data available.
Lower explosive limit:
No data available.
Vapor pressure:
(no method / method unknown;

No data available.

300 mbar

< 0.13 mbar

50 °C (122 °F); 20 °C (68 °F))

Vapor density: > 1

Density: 1.15 - 1.2 g/cm3 **Solubility:** Slight (20 °C)

Partition coefficient: n- No data available.

octanol/water:

Auto ignition:No data available.Decomposition temperature:No data available.

Viscosity: 70,000.00 - 130,000.00 mPa.s (Brookfield; Instrument: RVT; 25 °C (77 °F); speed of

rotation: 2.5 min-1; Spindle No: 6; Method: ;; LCT STM 10; Viscosity Brookfield)

VOC content: < 3 %

(2010/75/EC)

Section 10. Stability and reactivity

Reactivity/Incompatible materials:

Reaction with strong acids.

Reacts with strong oxidants.

Chemical stability:

Stable under recommended storage conditions.

Conditions to avoid:

No decomposition if used according to specifications.

Hazardous decomposition products:

carbon oxides.

nitrogen oxides

Irritating organic vapours.

Section 11. Toxicological information

Oral toxicity: Acute toxicity estimate (ATE): > 2,000 mg/kg

Method: Calculation method

Inhalative toxicity: Acute toxicity estimate (ATE): > 20 mg/l

Exposure time: 4 h

Test atmosphere: Vapor. Method: Calculation method

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Symptoms of Overexposure:

SKIN: Rash, Urticaria.

Prolonged or repeated contact may cause eye irritation.

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)	
2,2'-Ethylenedioxydiethyl	Value type	LD50	
dimethacrylate	Value	10,837 mg/kg	
109-16-0	Species	rat	
	Method	not specified	
Ethene, homopolymer	Value type	Acute toxicity estimate (ATE)	
9002-88-4	Value	> 5,000 mg/kg	
	Species		
	Method	Expert judgement	
Silica, amorphous, fumed, cryst	Value type	LD50	
free	Value	> 5,000 mg/kg	
112945-52-5	Species	rat	
	Method	OECD Guideline 401 (Acute Oral Toxicity)	
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)	
α, α-dimethylbenzyl hydroperoxide	Value type	LD50	
80-15-9	Value	382 mg/kg	
	Species	rat	
	Method	other guideline:	
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	Value type	LD50	
58-27-5	Value	500 mg/kg	
	Species	rat	
	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, homopolymer	Value type	Acute toxicity estimate (ATE)
9002-88-4	Value	> 5 mg/l
	Exposure time	4 h
	Species	
	Method	Expert judgement
Silica, amorphous, fumed, cryst	Value type	LC0
free	Value	0.139 mg/l
112945-52-5	Exposure time	4 h
	Species	rat
	Method	not specified
α, α-dimethylbenzyl hydroperoxide	Value type	LC50
80-15-9	Value	1.370 mg/l
	Exposure time	4 h
	Species	rat
	Method	not specified
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] 123-26-2	Method	OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class (ATC) Method)

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, homopolymer	Value type	Acute toxicity estimate (ATE)
9002-88-4	Value	> 5,000 mg/kg
	Species	
	Method	Expert judgement
Silica, amorphous, fumed, cryst	Value type	LD50
free	Value	> 2,000 mg/kg
112945-52-5	Species	rabbit
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
α, α-dimethylbenzyl hydroperoxide	Value type	Acute toxicity estimate (ATE)
80-15-9	Value	1,100 mg/kg
	Species	
	Method	Expert judgement
maleic acid	Value type	LD50
110-16-7	Value	1,560 mg/kg
	Species	rabbit
	Method	not specified

Skin corrosion/irritation:

Tetramethylene dimethacrylate	Result	not irritating
2082-81-7	Exposure time	24 h
	Species	rabbit
	Method	FDA Guideline
2,2'-Ethylenedioxydiethyl dimethacrylate	Result	not irritating
109-16-0	Exposure time	24 h
	Species	rabbit
	Method	Draize Test
Silica, amorphous, fumed, crystfree	Result	not irritating

112945-52-5	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
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)
α, α-dimethylbenzyl hydroperoxide	Result	corrosive
80-15-9	Exposure time	
	Species	rabbit
	Method	Draize Test
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	
	Species	Human, EpiSkinTM (SM), Reconstructed Human Epidermis (RHE)
	Method	OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method)

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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)
2,2'-Ethylenedioxydiethyl dimethacrylate	Result	not irritating
109-16-0	Exposure time	-
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Ethene, homopolymer	Result	not irritating
9002-88-4	Exposure time	24 h
	Species	rabbit
	Method	FDA Guideline
Silica, amorphous, fumed, crystfree	Result	not irritating
112945-52-5	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)

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)
Ethene, homopolymer	Result	not sensitising
9002-88-4	Test type	Mouse local lymphnode assay (LLNA)
	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-	Method	OECD Guideline 406 (Skin Sensitisation)
oxooctadecyl)amino]ethyl] 123-26-2		
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	in vitro mammalian chromosome aberration test
2002 01 7	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene
	Wethod	Mutation Test)
Tetramethylene dimethacrylate	Result	negative
2082-81-7	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
2082-81-7	Metabolic activation / Exposure time	with and without
	Method	
TD : d 1 1 1 d 1 :		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Tetramethylene dimethacrylate	Result	positive
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)
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	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
109-16-0	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2,2'-Ethylenedioxydiethyl	Result	negative
dimethacrylate	Type of study / Route of administration	in vitro mammalian cell micronucleus test
109-16-0	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 487 (In vitro Mammalian Cell
		Micronucleus Test)
Ethene, homopolymer	Result	negative
9002-88-4	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	Ames Test
Silica, amorphous, fumed, cryst	Result	negative
free	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
112945-52-5	Metabolic activation / Exposure time	(· g · · · · · · · · · · · · · · · · ·
	Method	not specified
Silica, amorphous, fumed, cryst		negative
free	Type of study / Route of administration	in vitro mammalian chromosome aberration test
112945-52-5	Metabolic activation / Exposure time	in vitto manimunan emoniosome acentaron test
	Method	not specified
Silica, amorphous, fumed, cryst	Result	negative
free	Type of study / Route of administration	DNA damage and repair assay, unscheduled DNA
112945-52-5	Type of study / Route of administration	synthesis in mammalian cells in vitro
112, 13 32 3	Metabolic activation / Exposure time	synthesis in mammanan cens in vitro
	Method	not specified
Acetic acid, 2-phenylhydrazide	Result	positive
114-83-0		
114-63-0	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)
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
41 44 44		Micronucleus Test)
α, α-dimethylbenzyl	Result	positive
hydroperoxide	m 2 1 1 5 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
80-15-9	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
00 13 7	Metabolic activation / Exposure time	without
	Metabolic activation / Exposure time Method	without OECD Guideline 471 (Bacterial Reverse Mutation Assay)
α, α-dimethylbenzyl	Metabolic activation / Exposure time Method Result	without OECD Guideline 471 (Bacterial Reverse Mutation Assay) negative
α, α-dimethylbenzyl hydroperoxide	Metabolic activation / Exposure time Method Result Type of study / Route of administration	without OECD Guideline 471 (Bacterial Reverse Mutation Assay)
α, α-dimethylbenzyl	Metabolic activation / Exposure time Method Result	without OECD Guideline 471 (Bacterial Reverse Mutation Assay) negative
α, α-dimethylbenzyl hydroperoxide	Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Species	without OECD Guideline 471 (Bacterial Reverse Mutation Assay) negative
α, α-dimethylbenzyl hydroperoxide	Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time	without OECD Guideline 471 (Bacterial Reverse Mutation Assay) negative dermal
α, α-dimethylbenzyl hydroperoxide	Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Species	without OECD Guideline 471 (Bacterial Reverse Mutation Assay) negative dermal mouse
α, α-dimethylbenzyl hydroperoxide 80-15-9	Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method	without OECD Guideline 471 (Bacterial Reverse Mutation Assay) negative dermal mouse not specified
a, α-dimethylbenzyl hydroperoxide 80-15-9	Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result	without OECD Guideline 471 (Bacterial Reverse Mutation Assay) negative dermal mouse not specified negative
a, α-dimethylbenzyl hydroperoxide 80-15-9	Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration	without OECD Guideline 471 (Bacterial Reverse Mutation Assay) negative dermal mouse not specified negative bacterial reverse mutation assay (e.g Ames test)

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)

Repeated dose toxicity:

2,2'-Ethylenedioxydiethyl	Result	NOAEL=1,000 mg/kg
dimethacrylate	Route of application	oral: gavage
109-16-0	Exposure time / Frequency of treatment	daily
	Species	rat
	Method	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
α, α-dimethylbenzyl	Result	
hydroperoxide	Route of application	inhalation: aerosol
80-15-9	Exposure time / Frequency of treatment	6 h/d5 d/w
	Species	rat
	Method	not specified
maleic acid	Result	NOAEL=>= 40 mg/kg
110-16-7	Route of application	oral: feed
	Exposure time / Frequency of treatment	90 ddaily
	Species	rat
	Method	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Section 12. Ecological information

General ecological information: Do not empty into drains / surface water / ground water.

Ecotoxicity:

Toxicity:

Tetramethylene dimethacrylate	Value type	LC50
2082-81-7	Value	32.5 mg/l
	Acute Toxicity Study	Fish
	Exposure time	48 h
	Species	
	Method	DIN 38412-15
Tetramethylene dimethacrylate	Value type	EC50
2082-81-7	Value	9.79 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value type Value	NOEC 2.11 mg/l
	Value	2.11 mg/l
	Value Acute Toxicity Study	2.11 mg/l Algae
	Value Acute Toxicity Study Exposure time	2.11 mg/l Algae 72 h
Tetramethylene dimethacrylate	Value Acute Toxicity Study Exposure time Species	2.11 mg/l Algae 72 h Desmodesmus subspicatus
Tetramethylene dimethacrylate 2082-81-7	Value Acute Toxicity Study Exposure time Species Method	2.11 mg/l Algae 72 h Desmodesmus subspicatus OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value Acute Toxicity Study Exposure time Species Method Value type	2.11 mg/l Algae 72 h Desmodesmus subspicatus OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC
	Value Acute Toxicity Study Exposure time Species Method Value type Value	2.11 mg/l Algae 72 h Desmodesmus subspicatus OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 20 mg/l
	Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study	2.11 mg/l Algae 72 h Desmodesmus subspicatus OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 20 mg/l Bacteria

2,2'-Ethylenedioxydiethyl	Value type	LC50
dimethacrylate	Value	16.4 mg/l
109-16-0	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Danio rerio
<u> </u>	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
2,2'-Ethylenedioxydiethyl	Value type	EC50
dimethacrylate	Value	> 100 mg/l
109-16-0	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type Value	NOEC 18.6 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Ethene, homopolymer	Value type	LC50
9002-88-4	Value	> 100 mg/l
I	Acute Toxicity Study	Fish
I	Exposure time	96 h
	Species	Leuciscus idus
<u> </u>	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Ethene, homopolymer	Value type	EC0
9002-88-4	Value	> 1,000 mg/l
I	Acute Toxicity Study	Bacteria
	Exposure time	3 h
I	Species	not specified
<u> </u>	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Silica, amorphous, fumed, cryst	Value type	LC50
free	Value	> 10,000 mg/l
112945-52-5	Acute Toxicity Study	Fish
	Exposure time	96 h
I	Species Method	Brachydanio rerio (new name: Danio rerio) OECD Guideline 203 (Fish, Acute Toxicity Test)
Acetic acid, 2-phenylhydrazide	Value type	EC50
114-83-0	Value	1.1 mg/l
111 65 6	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Acetic acid, 2-phenylhydrazide	Value type	EC50
114-83-0	Value	0.258 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
1		
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC
	Value type Value	OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 0.01 mg/l
	Value type Value Acute Toxicity Study	OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 0.01 mg/l Algae
	Value type Value Acute Toxicity Study Exposure time	OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 0.01 mg/l Algae 72 h
	Value type Value Acute Toxicity Study Exposure time Species	OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 0.01 mg/l Algae 72 h Pseudokirchneriella subcapitata
and dimethylhone of the decree	Value type Value Acute Toxicity Study Exposure time Species Method	OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 0.01 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test)
α, α-dimethylbenzyl hydroperoxide	Value type Value Acute Toxicity Study Exposure time Species Method Value type	OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 0.01 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50
α, $α$ -dimethylbenzyl hydroperoxide 80-15-9	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value	OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 0.01 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 3.9 mg/l
	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study	OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 0.01 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 3.9 mg/l Fish
	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time	OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 0.01 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 3.9 mg/l Fish 96 h
	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species	OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 0.01 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 3.9 mg/l Fish 96 h Oncorhynchus mykiss
80-15-9	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method	OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 0.01 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 3.9 mg/l Fish 96 h Oncorhynchus mykiss OECD Guideline 203 (Fish, Acute Toxicity Test)
	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species	OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 0.01 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 3.9 mg/l Fish 96 h Oncorhynchus mykiss OECD Guideline 203 (Fish, Acute Toxicity Test) EC50
80-15-9 $\alpha, \alpha \text{-dimethylbenzyl hydroperoxide}$	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Value type Value Value type	OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 0.01 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 3.9 mg/l Fish 96 h Oncorhynchus mykiss OECD Guideline 203 (Fish, Acute Toxicity Test)
80-15-9 $\alpha, \alpha \text{-dimethylbenzyl hydroperoxide}$	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Value type Value Value type Value type Value type Value	OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 0.01 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 3.9 mg/l Fish 96 h Oncorhynchus mykiss OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 18.84 mg/l
80-15-9 $\alpha,\alpha\text{-dimethylbenzyl hydroperoxide}$	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Value type Value Value type Value Acute Toxicity Study	OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 0.01 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 3.9 mg/l Fish 96 h Oncorhynchus mykiss OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 18.84 mg/l Daphnia 48 h Daphnia magna
80-15-9 $\alpha,\alpha\text{-dimethylbenzyl hydroperoxide}$	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Value type Value type Value type Value type Value Acute Toxicity Study Exposure time	OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 0.01 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 3.9 mg/l Fish 96 h Oncorhynchus mykiss OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 18.84 mg/l Daphnia 48 h
80-15-9 $\alpha, \alpha\text{-dimethylbenzyl hydroperoxide} \\ 80\text{-}15\text{-}9 \\ \\ \alpha, \alpha\text{-dimethylbenzyl hydroperoxide}$	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species	OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 0.01 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 3.9 mg/l Fish 96 h Oncorhynchus mykiss OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 18.84 mg/l Daphnia 48 h Daphnia magna
80-15-9 $\alpha, \alpha\text{-dimethylbenzyl hydroperoxide} \\ 80\text{-}15\text{-}9$	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Value Value Value Value Value Value	OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 0.01 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 3.9 mg/l Fish 96 h Oncorhynchus mykiss OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 18.84 mg/l Daphnia 48 h Daphnia magna OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
80-15-9 $\alpha, \alpha\text{-dimethylbenzyl hydroperoxide} \\ 80\text{-}15\text{-}9 \\ \\ \alpha, \alpha\text{-dimethylbenzyl hydroperoxide}$	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study	OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 0.01 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 3.9 mg/l Fish 96 h Oncorhynchus mykiss OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 18.84 mg/l Daphnia 48 h Daphnia magna OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 3.1 mg/l Algae
80-15-9 $\alpha, \alpha\text{-dimethylbenzyl hydroperoxide} \\ 80\text{-}15\text{-}9 \\ \\ \alpha, \alpha\text{-dimethylbenzyl hydroperoxide}$	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Value Value Value Value Value Value	OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 0.01 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 3.9 mg/l Fish 96 h Oncorhynchus mykiss OECD Guideline 203 (Fish, Acute Toxicity Test) EC50 18.84 mg/l Daphnia 48 h Daphnia magna OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 3.1 mg/l

	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	1 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)
4	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
α, α-dimethylbenzyl hydroperoxide	Value type	EC10
80-15-9	Value	70 mg/l
	Acute Toxicity Study Exposure time	Bacteria 30 min
	Species Species	not specified
	Method	not specified
maleic acid	Value type	LC50
110-16-7	Value	> 245 mg/l
	Acute Toxicity Study	Fish
	Exposure time	48 h
	Species	Leuciscus idus
	Method	DIN 38412-15
maleic acid	Value type	EC50
110-16-7	Value	42.81 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species Method	Daphnia magna OECD Guidalina 202 (Daphnia sp. Acuta Immobilisation Test)
maleic acid	Value type	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50
110-16-7	Value type Value	74.35 mg/l
110 10 /	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	EC10
	Value	11.8 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
maleic acid 110-16-7	Value type	EC10
110-10-/	Value Acute Toxicity Study	44.6 mg/l Bacteria
	Exposure time	18 h
	Species	Pseudomonas putida
	Method	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
Reaction mass of N,N'-ethane-1,2-	Value type	LL50
diylbis(12-hydroxyoctadecan-1-	Value	Toxicity > Water solubility
amide), Octadecanamide, 12-	Acute Toxicity Study	Fish
hydroxy-N-[2-[(1-	Exposure time	96 h
oxooctadecyl)amino]ethyl]	Species	Oncorhynchus mykiss
123-26-2	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
	Value type	NOELR
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Fish
	Exposure time	32 d
	Species Method	Pimephales promelas OECD Guideline 210 (fish early lite stage toxicity test)
Reaction mass of N,N'-ethane-1,2-	Value type	EL50
diylbis(12-hydroxyoctadecan-1-	Value type Value	Toxicity > Water solubility
amide), Octadecanamide, 12-	Acute Toxicity Study	Daphnia
hydroxy-N-[2-[(1-	Exposure time	48 h
oxooctadecyl)amino]ethyl]	Species	Daphnia magna
123-26-2	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Reaction mass of N,N'-ethane-1,2-	Value type	EC50
diylbis(12-hydroxyoctadecan-1-	Value	Toxicity > Water solubility
amide), Octadecanamide, 12-	Acute Toxicity Study	Algae
hydroxy-N-[2-[(1-	Exposure time	72 h
oxooctadecyl)amino]ethyl]	Species	Pseudokirchneriella subcapitata
123-26-2	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	EC10
		m 1 1 2 277 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Value	Toxicity > Water solubility
		Toxicity > Water solubility Algae 72 h

	Spec	cies	Pseudokirchneriella subcapitata
	Met	hod	OECD Guideline 201 (Alga, Growth Inhibition Test)
Menadione	Valu	ie type	EC50
58-27	'-5 Valu	ie	0.31 mg/l
	Acu	te Toxicity Study	Daphnia
	Exp	osure time	48 h
	Spec	cies	Daphnia magna
	Met	hod	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Menadione	Valu	ie type	EC50
58-27	'-5 Valu	ie	0.064 mg/l
	Acu	te Toxicity Study	Algae
	Exp	osure time	72 h
	Spec	cies	Desmodesmus subspicatus
	Met	hod	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Valu	ie type	NOEC
	Valu	ie	0.009 mg/l
	Acu	te Toxicity Study	Algae
	Exp	osure time	72 h
	Spec	cies	Desmodesmus subspicatus
	Met	hod	OECD Guideline 201 (Alga, Growth Inhibition Test)

Persistence and degradability:

Tetramethylene dimethacrylate	Result	readily biodegradable
2082-81-7	Route of application	aerobic
	Degradability	84 %
	Method	OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels
		(Headspace Test)
2,2'-Ethylenedioxydiethyl	Result	readily biodegradable
dimethacrylate	Route of application	aerobic
109-16-0	Degradability	85 %
	Method	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Ethene, homopolymer	Result	not readily biodegradable.
9002-88-4	Route of application	aerobic
	Degradability	1 %
	Method	ISO 10708 (BODIS-Test)
Acetic acid, 2-phenylhydrazide	Result	not readily biodegradable.
114-83-0	Route of application	aerobic
	Degradability	39 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
α, α-dimethylbenzyl	Result	not readily biodegradable.
hydroperoxide	Route of application	aerobic
80-15-9	Degradability	3 %
	Method	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
maleic acid	Result	readily biodegradable
110-16-7	Route of application	aerobic
	Degradability	97.08 %
	Method	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Reaction mass of N,N'-ethane-	Result	not readily biodegradable.
1,2-diylbis(12-	Route of application	aerobic
hydroxyoctadecan-1-amide),	Degradability	22 %
Octadecanamide, 12-hydroxy-N-	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
[2-[(1-		
oxooctadecyl)amino]ethyl]		
123-26-2		
	Result	not inherently biodegradable
	Route of application	aerobic
	Degradability	37 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Menadione	Result	not inherently biodegradable
58-27-5	Route of application	aerobic
	Degradability	0.000000 %
	Method	OECD Guideline 302 C (Inherent Biodegradability: Modified MITI Test
		(II)

${\bf Bioaccumulative\ potential\ /\ Mobility\ in\ soil:}$

Tetramethylene dimethacrylate	LogPow	3.1
2082-81-7	Temperature	

	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
2,2'-Ethylenedioxydiethyl	LogPow	2.3
dimethacrylate	Temperature	
109-16-0	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Acetic acid, 2-phenylhydrazide	LogPow	0.74
114-83-0	Temperature	
	Method	QSAR (Quantitative Structure Activity Relationship)
α, α-dimethylbenzyl	Bioconcentration factor (BCF)	9.1
hydroperoxide	Exposure time	
80-15-9	Species	calculation
	Temperature	
	Method	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
α, α-dimethylbenzyl	LogPow	1.6
hydroperoxide	Temperature	25 °C
80-15-9	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
maleic acid	LogPow	-1.3
110-16-7	Temperature	20 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Reaction mass of N,N'-ethane-	LogPow	5.86
1,2-diylbis(12-	Temperature	
hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy-N- [2-[(1- oxooctadecyl)amino]ethyl] 123-26-2	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Menadione	LogPow	2.43
58-27-5	Temperature	30 °C
	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

Section 13. Disposal considerations

Product

Method of disposal:

Dispose of in accordance with local and national regulations.

Packaging

Disposal of uncleaned packages:

Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

Section 14. Transport information

Road transport ADR:

Not dangerous goods

Railroad transport RID:

Not dangerous goods

Inland water transport ADN:

Not dangerous goods

Marine transport IMDG:

Not dangerous goods

Air transport IATA:

Not dangerous goods

Section 15. Regulatory information

Regulatory Information:

Ministry of Industry Notice. The system to classify and communicate the hazard of hazardous material, BE. 2555

Global inventory status:

Regulatory list	Notification
TSCA	yes
DSL	yes
ENCS (JP)	yes
ISHL (JP)	yes
IECSC	yes
TCSI	yes

Section 16. Other information

Disclaimer:

This Safety Data Sheet has been generated based on Ministry of Industry Notice. The system to classify and communicate the hazard of hazardous material, BE. 2555 only. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance.

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