

Safety Data Sheet

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SDS No.: 153475

V001.17

Revision: 28.08.2023 printing date: 13.09.2024

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

Product name:

LOCTITE 603 BO50ML EN/CH/JP

Other means of identification:

LOCTITE 603 BO50ML EN/CH/JP

LOCTITE 603 BO50ML EN/CH/JP

Product code:

IDH387887

Recommended use of the chemical and restrictions on use

Intended use:

Anaerobic Sealant

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> <u>Target organ</u>

Skin corrosion/irritation Category 2
Serious eye damage/eye irritation
Skin sensitizer Category 1
Specific terrot organ toxicity Category 3

Specific target organ toxicity - Category 3 respiratory tract irritation

single exposure

Chronic hazards to the aquatic Category 3

environment

GHS label elements:

Hazard pictogram:



Signal word:

Danger

Hazard statement:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

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.

P273 Avoid release to the environment.

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

Response:

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

P304+P340+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or physician.

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.

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

Storage:

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
2-Propenoic acid, 2-methyl-, 4-(1,1-dimethylethyl 46729-07-1	30- 60 %	Acute toxicity 5; Oral H303
40727-07-1		Skin corrosion/irritation 2
		H315 Serious eye damage/eye irritation 2A
		H319
		Specific target organ toxicity - single exposure 3 H335
1-Methyltrimethylene dimethacrylate	10- 30 %	Skin sensitizer 1B
1189-08-8		H317 Acute hazards to the aquatic environment 2
		H401
Methacrylic acid, monoester with propane-1,2-diol 27813-02-1	1- 10 %	Serious eye damage/eye irritation 2B H320
		Skin sensitizer 1
Acrylic acid	1- 10 %	H317 Flammable liquids 3
79-10-7		H226
		Acute toxicity 4; Oral H302
		Acute toxicity 4; Inhalation H332
		Acute toxicity 4; Dermal
		H312 Skin corrosion/irritation 1
		H314
		Serious eye damage/eye irritation 1 H318
		Specific target organ toxicity - single exposure 3 H335
		Acute hazards to the aquatic environment 1 H400
		Chronic hazards to the aquatic environment 2 H411
Octylphenol ethoxylate, 9-10EO 9036-19-5	1- 10 %	Acute toxicity 4; Oral H302
		Serious eye damage/eye irritation 1 H318
		Acute hazards to the aquatic environment 2 H401
		Chronic hazards to the aquatic environment 2 H411
α, α-dimethylbenzyl hydroperoxide 80-15-9	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
2,2'-Ethylenedioxydiethyl dimethacrylate	0.1- 1 %	Skin sensitizer 1B
109-16-0		H317 Acute hazards to the aquatic environment 3 H402
methacrylic acid	0.1- 1 %	Flammable liquids 4
79-41-4		H227

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		Acute toxicity 4; Oral
		H302 Acute toxicity 4; Inhalation
		H332
		Acute toxicity 3; Dermal
		H311
		Skin corrosion/irritation 1
		H314
		Serious eye damage/eye irritation 1
		H318
		Specific target organ toxicity - single exposure 3 H335
		Acute hazards to the aquatic environment 3
		H402
methyl methacrylate	0.1- 1 %	Flammable liquids 2
80-62-6		H225
		Acute toxicity 5; Inhalation
		H333 Skin corrosion/irritation 2
		H315
		Skin sensitizer 1B
		H317
		Specific target organ toxicity - single exposure 3
		H335
		Acute hazards to the aquatic environment 3
		H402
Acetic acid, 2-phenylhydrazide	0.1- 1 %	Acute toxicity 3; Oral
114-83-0		H301
		Skin corrosion/irritation 2
		H315
		Serious eye damage/eye irritation 2A
		H319
		Skin sensitizer 1 H317
		Carcinogenicity 2
		H351
n-Heptane	0.1- 1 %	Flammable liquids 2
142-82-5	0.1 1,0	H225
		Skin corrosion/irritation 2
		H315
		Specific target organ toxicity - single exposure 3
		H336
		Aspiration hazard 1
		H304
		Acute hazards to the aquatic environment 1 H400
		Chronic hazards to the aquatic environment 1 H410
1	i .	

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.

Eve contact:

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

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

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

Special protection equipment and precautions for firefighters:

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

Hazardous combustion products:

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

Sulphur oxides

Section 6. Accidental release measures

Personal precautions:

Avoid skin and eye contact.

Ensure adequate ventilation.

Wear protective equipment.

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.

See advice in section 8

Storage:

Ensure good ventilation/extraction.

Store in tightly closed containers. In a cool/well-ventilated area.

Keep away from sources of ignition.

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.

Refer to Technical Data Sheet

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Section 8. Exposure controls / personal protection

${\bf Components\ with\ specific\ control\ parameters\ for\ workplace:}$

¥7.1	TI' XX ' 1 . 1 A /TXX A
Value type	Time Weighted Average (TWA):
nnm	2
	ACGIH
	Time Weighted Average (TWA):
value type	Time Weighted Average (TWA).
ppm	2
Remarks	TH OEL
Value type	Skin designation:
Remarks	ACGIH Danger of cutaneous absorption
Value type	Time Weighted Average (TWA):
	20
	ACGIH
Value type	Time Weighted Average (TWA):
ppm	50
Remarks	ACGIH
Value type	Time Weighted Average (TWA):
ppm	100
Remarks	TH OEL
Value type	Short Term Exposure Limit (STEL):
nnm	100
	ACGIH
	Time Weighted Average (TWA):
	2
	ACGIH
Value type	Time Weighted Average (TWA):
ppm	2
	TH OEL
Value type	Skin designation:
Remarks	ACGIH Danger of cutaneous absorption
Value type	Time Weighted Average (TWA):
ppm	20
Remarks	ACGIH
Value type	Time Weighted Average (TWA):
ppm	50
Remarks	ACGIH
Value type	Time Weighted Average (TWA):
nnm	100
	TH OEL
	Short Term Exposure Limit (STEL):
	• • • • • • • • • • • • • • • • • • • •
	100 ACGIH
	Time Weighted Average (TWA):
ppm	400
	ACGIH
Value type	Time Weighted Average (TWA):
ppm	500
Remarks	TH OEL
	Remarks Value type ppm Remarks Value type

ppm	500
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; \geq = 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: green liquid

Odor: characteristic
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: 1.07

Boiling point: > 150 °C (> 302 °F) **Flash point:** > 100.00 °C (> 212 °F)

(Tagliabue closed cup)

Evaporation rate: No data available.
Flammability (solid, gas): No data available.
Lower explosive limit: No data available.
Upper explosive limit: No data available.
Vapor pressure: < 300 mbar

(no method / method unknown; < 0.13 mbar

50 °C (122 °F); 20 °C (68 °F))

Vapor density: > 1

Density: 1.07 g/cm3

Solubility: Slightly soluble (20 °C)

Partition coefficient: n-

octanol/water:

No data available.

< 3 %

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

Viscosity: 115 - 135 mPa.s (Brookfield; Instrument: RVT; speed of rotation: 20 min-1; Spindle No:

1; Method: ;; LCT STM 10; Viscosity Brookfield)

VOC content:

(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:

Stable under normal conditions of storage and use.

Hazardous decomposition products:

None if used for intended purpose.

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

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

Method: Calculation method

Skin irritation: Result: Category 2 (irritant)

Symptoms of Overexposure: SKIN: Redness, inflammation.

SKIN: Rash, Urticaria.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

Acute oral toxicity:

2-Propenoic acid, 2-methyl-, 4-	Value type	Acute toxicity estimate (ATE)
(1,1-dimethylethyl	Value	2,001 mg/kg
46729-07-1	Species	
	Method	Expert judgement
1-Methyltrimethylene	Value type	LD50
dimethacrylate	Value	> 5,000 mg/kg
1189-08-8	Species	rat
	Method	not specified
Methacrylic acid, monoester with	Value type	LD50
propane-1,2-diol	Value	> 2,000 mg/kg
27813-02-1	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
Acrylic acid	Value type	LD50
79-10-7	Value	1,500 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
Octylphenol ethoxylate, 9-10EO	Value type	LD50
9036-19-5	Value	1,900 mg/kg
	Species	rat
	Method	not specified
α, α-dimethylbenzyl hydroperoxide	Value type	LD50
80-15-9	Value	382 mg/kg
	Species	rat
	Method	other guideline:
2,2'-Ethylenedioxydiethyl	Value type	LD50
dimethacrylate	Value	10,837 mg/kg
109-16-0	Species	rat
	Method	not specified
methacrylic acid	Value type	LD50
79-41-4	Value	1,320 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
methyl methacrylate	Value type	LD50
80-62-6	Value	9,400 mg/kg
	Species	rat
	Method	not specified
Acetic acid, 2-phenylhydrazide	Value type	LD50
114-83-0	Value	270 mg/kg
	Species	rat
	Method	not specified
n-Heptane	Value type	LD50
142-82-5	Value	> 5,000 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)

Acute inhalative toxicity:

Acrylic acid	Value type	LC0
79-10-7	Value	5.1 mg/l
	Exposure time	4 h
	Species	rat
	Method	equivalent or similar to OECD Guideline 403 (Acute Inhalation
		Toxicity)
Acrylic acid	Value type	Acute toxicity estimate (ATE)
79-10-7	Value	11 mg/l
	Exposure time	
	Species	
	Method	Expert judgement
α, α-dimethylbenzyl hydroperoxide	Value type	LC50
80-15-9	Value	1.370 mg/l
	Exposure time	4 h
	Species	rat
	Method	not specified
2,2'-Ethylenedioxydiethyl	Value type	Acute toxicity estimate (ATE)
dimethacrylate	Value	28.17 mg/l
109-16-0	Exposure time	
	Species	
	Method	Expert judgement
methacrylic acid	Value type	LC50
79-41-4	Value	> 3.6 mg/l
	Exposure time	4 h
	Species	rat
	Method	OECD Guideline 403 (Acute Inhalation Toxicity)
methacrylic acid	Value type	Acute toxicity estimate (ATE)
79-41-4	Value	3.61 mg/l
	Exposure time	
	Species	
	Method	Expert judgement
methyl methacrylate	Value type	LC50
80-62-6	Value	29.8 mg/l
	Exposure time	4 h
	Species	rat
	Method	not specified
n-Heptane	Value type	LC50
142-82-5	Value	> 29.29 mg/l
	Exposure time	4 h
	Species	rat
	Method	equivalent or similar to OECD Guideline 403 (Acute Inhalation
		Toxicity)

Acute dermal toxicity:

1-Methyltrimethylene	Value type	LD50	
dimethacrylate	Value	> 3,000 mg/kg	
1189-08-8	Species	rabbit	
	Method	not specified	
Methacrylic acid, monoester with	Value type	LD50	
propane-1,2-diol	Value	> 5,000 mg/kg	
27813-02-1	Species	rabbit	
	Method	not specified	
Acrylic acid	Value type	Acute toxicity estimate (ATE)	
79-10-7	Value	1,100 mg/kg	
	Species		
	Method	Expert judgement	
Octylphenol ethoxylate, 9-10EO	Value type	LD50	
9036-19-5	Value	> 2,000 mg/kg	
	Species	rabbit	
	Method	not specified	
α, α-dimethylbenzyl hydroperoxide	Value type	Acute toxicity estimate (ATE)	
80-15-9	Value	1,100 mg/kg	
	Species		
	Method	Expert judgement	
2,2'-Ethylenedioxydiethyl	Value type	Acute toxicity estimate (ATE)	

dimethacrylate	Value	> 5,000 mg/kg
109-16-0	Species	
	Method	Expert judgement
methacrylic acid	Value type	LD50
79-41-4	Value	500 - 1,000 mg/kg
	Species	rabbit
	Method	Dermal Toxicity Screening
methacrylic acid	Value type	Acute toxicity estimate (ATE)
79-41-4	Value	500 mg/kg
	Species	
	Method	Expert judgement
methyl methacrylate	Value type	LD50
80-62-6	Value	> 5,000 mg/kg
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 402 (Acute Dermal
		Toxicity)
n-Heptane	Value type	LD50
142-82-5	Value	> 2,000 mg/kg
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Methacrylic acid, monoester with	Result	not irritating
propane-1,2-diol	Exposure time	24 h
27813-02-1	Species	rabbit
	Method	Draize Test
Acrylic acid	Result	Category 1 (corrosive)
79-10-7	Exposure time	3 min
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
α, α-dimethylbenzyl hydroperoxide	Result	corrosive
80-15-9	Exposure time	
	Species	rabbit
	Method	Draize Test
2,2'-Ethylenedioxydiethyl dimethacrylate	Result	not irritating
109-16-0	Exposure time	24 h
	Species	rabbit
	Method	Draize Test
methacrylic acid	Result	corrosive
79-41-4	Exposure time	3 min
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
n-Heptane	Result	irritating
142-82-5	Exposure time	
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Methacrylic acid, monoester with	Result	Category 2B (mildly irritating to eyes)
propane-1,2-diol	Exposure time	
27813-02-1	Species	rabbit
	Method	Draize Test
Acrylic acid	Result	Category 1 (irreversible effects on the eye)
79-10-7	Exposure time	
	Species	rabbit
	Method	BASF Test
2,2'-Ethylenedioxydiethyl dimethacrylate	Result	not irritating
109-16-0	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
methacrylic acid	Result	corrosive
79-41-4	Exposure time	
	Species	rabbit
	Method	Draize Test
n-Heptane	Result	not irritating
142-82-5	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

1-Methyltrimethylene	Result	sensitising
dimethacrylate	Test type	Mouse local lymphnode assay (LLNA)
1189-08-8	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Methacrylic acid, monoester with	Result	not sensitising
propane-1,2-diol	Test type	Mouse local lymphnode assay (LLNA)
27813-02-1	Species	mouse
	Method	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Methacrylic acid, monoester with	Result	sensitising
propane-1,2-diol	Test type	Guinea pig maximisation test
27813-02-1	Species	guinea pig
	Method	not specified
Acrylic acid	Result	not sensitising
79-10-7	Test type	Freund's complete adjuvant test
	Species	guinea pig
	Method	Klecak Method
Acrylic acid	Result	not sensitising
79-10-7	Test type	Split adjuvant test
	Species	guinea pig
	Method	Maguire Method
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)
methacrylic acid	Result	not sensitising
79-41-4	Test type	Buehler test
	Species	guinea pig
	Method	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
methyl methacrylate	Result	sensitising
80-62-6	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
n-Heptane	Result	not sensitising
142-82-5	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)

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Germ cell mutagenicity:

with propane-1,2-diol Method: Acrylic acid, monoester with propane-1,2-diol 27813-02-1 Method: Method	Methacrylic acid, monoester	Result	negative
Metaborylic acid, monoester with propane-12-diol 27813-02-1 Metaborylic acid, monoester with propane-12-diol 27813-02-diol 27813-02-diol 27813-02-diol 27813-02-diol 27813-02-diol 278			
Methacytic acid, monoester with propane-1,2-diol 27813-02-1 Methacytic acid, monoester with p	27813-02-1		
Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 Type of study/Route of administration with and without Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 Type of study/Route of administration mammalian cell gene mutation assay with propane-1,2-diol 27813-02-1 Type of study/Route of administration mammalian cell gene mutation assay with and without Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 Result			OECD Guideline 471 (Bacterial Reverse Mutation Assay)
with propane-1,2-diol Z7813-02-1 Methacrylic acid, monoester with propane-1,2-diol Z7813-02-1	Methacrylic acid, monoester	Result	
Methacylic acid, monoester with propane-1,2-diol 27813-02-1 Method (Propane-1,2-diol 27813-02-1) Method (Propane-1,2-diol 27813-		Type of study / Route of administration	in vitro mammalian chromosome aberration test
Method Chromosome Aberration Test			
Result Type of study / Route of administration megative mouse megative mouse megative mouse megative mouse megative mouse megative mouse megative			
with propane-1.2-diol 27813-02-1 Type of study / Route of administration Methodrof Exposure time Species Method OxeCO Guideline 474 (Mammalian Erythrocyte Micronucleus Text) Methodrof OxeCO Guideline 474 (Mammalian Erythrocyte Micronucleus Text) Methodrof OxeCO Guideline 474 (Mammalian Erythrocyte Methodrof OxeCO Guideline 474 (Mammalian Erythrocyte Micronucleus Text) Methodrof OxeCo Guideline 474 (Mammalian Erythrocyte Method OxeCO Guideline 474 (Mammalian Erythrocyte Oxel Guideline 474 (Mammalian Erythrocyte Micronucleus Text) Drosophila melanogaster Oxel Guideline 476 (Mammalian Erythrocyte Micronucleus Text) Drosophila melanogaster Oxel Guideline 476 (Mammalian Coll Guideline 471 (Bace Result Oxel Guideline 471 (Bace Reverse Mutation Assay) Nethod oxel Guideline 475 (Mammalian Cell Gene Mutation Text) Method oxel Guideline 475 (Mammalian Cell Gene Mutation Text) Method oxel Guideline 475 (Mammalian Cell Gene Mutation Text) Method oxel Guideline 475 (Mammalian Cell Gene Mutation Text) Method oxel Guideline 475 (Mammalian Cell Gene Mutation Text) Method oxel Guideline 475 (Mammalian Cell Gene Mutation Text) Method oxel Guideline 475 (Mammalian Cell Gene Mutation Text) Method oxel Guideline 475 (Mammalian Cell Gene Mutation Text) Method oxel Guideline 475 (Mammalian Cell Gene Mutation Text) Method oxel Guideline 475 (Mammalian Cell Gene Mutation Text) Method oxel Guideline 475 (Mammalian Cell Gene Mutation Text) Method oxel Guideline 475 (Mamma	Methacrylic acid, monoester		
Methady Methady Result			
Methody (Section Programs of Section Programs			
with propane-1,2-diol 27813-02-1 Metabolic activation / Exposure time Species Method Acrylic acid Result Type of study / Route of administration Method Met			OECD Guideline 476 (In vitro Mammalian Cell Gene
with propane-1,2-diol Type of study / Route of administration Metabolic activation / Exposure time Species mouse Metabolic activation / Exposure time Metabolic activation / Exposure time Metabolic activation / Exposure time Metabolic activation / Exposure time Metab	Methacrylic acid, monoester	Result	negative
Method Species Method Micronucleus Test)			
Species Method OECD Guideline 474 (Mammalian Erythrocyte Method OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) Micronucleus Tes			
Methacrylic acid, monoester with popular 1,2-diol Type of study / Route of administration or similar to OECD Guideline 471 (Mammalian Erythrocyte Micronucleus Test)			mouse
Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 Property of Study / Route of administration oral: gavage Prosophila melanogaster			
Methacytic acid, monoester with propane-1,2-diol 27813-02-1 Species Type of study / Route of administration Metabolic activation / Exposure time Method Metabolic		Traction of the control of the contr	
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Type of study / Route of administration mammalian cell gene mutation assay with and without wit		-	2.7
Metabolic activation / Exposure time with and without equivalent or similar to OECD Guideline 476 (In v Mammalian Cell Gene Mutation Test)			
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Method			
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Method equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration To negative Acrylic acid Result negative 79-10-7 Type of study / Route of administration oral: gavage Metabolic activation / Exposure time mouse Species mouse Method not specified α, α-dimethylbenzyl Result positive hydroperoxide Type of study / Route of administration bacterial reverse mutation assay (e.g Ames test) without OECD Guideline 471 (Bacterial Reverse Mutation Assa negative hydroperoxide Type of study / Route of administration dermal 80-15-9 Metabolic activation / Exposure time mouse Metabolic activation / Exposure time mouse Species mouse Method not specified 2,2'-Ethylenedioxydiethyl Result negative 109-16-0 Metabolic activation / Exposure time with and without Metabolic activation / Exposure time with and without OECD Guideline 476 (In vitro Mammalian Cell General Mutation Test)			
Acrylic acid Result negative negative oral: gavage not specified			
$ \begin{array}{c} A crylic \ acid \\ 79\text{-}10\text{-}7 \\ & & & & & & \\ \hline & Type \ of \ study \ / \ Route \ of \ administration \\ & & & & \\ \hline & & & & \\ \hline & & & & \\ \hline & & & &$		Method	
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Species mouse Method not specified 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0 Result negative 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 Grand Mutation Test)	, I	Type of study / Route of administration	dermal
Method not specified	80-15-9		
Result negative			
dimethacrylate Type of study / Route of administration 109-16-0 Metabolic activation / Exposure time Method		Method	not specified
dimethacrylate Type of study / Route of administration 109-16-0 Metabolic activation / Exposure time Method	2,2'-Ethylenedioxydiethyl	Result	negative
109-16-0 Metabolic activation / Exposure time with and without Method OECD Guideline 476 (In vitro Mammalian Cell Goutation Test)	dimethacrylate	Type of study / Route of administration	
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			OECD Guideline 476 (In vitro Mammalian Cell Gene
0.0171.1 11 11 17 11			Mutation Test)
2,2'-Ethylenedioxydiethyl Result negative	2,2'-Ethylenedioxydiethyl	Result	negative
dimethacrylate Type of study / Route of administration bacterial reverse mutation assay (e.g Ames test)		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)
methacrylic acid	Result	negative
79-41-4	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
methacrylic acid	Result	negative
79-41-4	Type of study / Route of administration	inhalation
	Metabolic activation / Exposure time	
	Species	mouse
	Method	equivalent or similar to OECD Guideline 478 (Genetic
		Toxicology: Rodent Dominant Lethal Test)
methacrylic acid	Result	negative
79-41-4	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
	Species	mouse
	Method	equivalent or similar to OECD Guideline 474
		(Mammalian Erythrocyte Micronucleus Test)
methyl methacrylate	Result	negative
80-62-6	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	not specified
n-Heptane	Result	negative
142-82-5	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)
n-Heptane	Result	negative
142-82-5	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	not applicable
	Method	OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)

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Repeated dose toxicity:

Methacrylic acid, monoester	Result	NOAEL=300 mg/kg
with propane-1,2-diol	Route of application	oral: gavage
27813-02-1	Exposure time / Frequency of treatment	49 ddaily
	Species	rat
	Method	OECD Guideline 422 (Combined Repeated Dose Toxicity
		Study with the Reproduction / Developmental Toxicity
		Screening Test)
Methacrylic acid, monoester	Result	NOAEL=0.352 mg/l
with propane-1,2-diol	Route of application	inhalation
27813-02-1	Exposure time / Frequency of treatment	90 d6 h/d, 5 d/w
	Species	rat
	Method	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-
		Day)
Acrylic acid	Result	NOAEL=40 mg/kg
79-10-7	Route of application	oral: drinking water
	Exposure time / Frequency of treatment	12 mdaily
	Species	rat
	Method	equivalent or similar to OECD Guideline 452 (Chronic
		Toxicity Studies)
Acrylic acid	Result	NOAEL=0.015 mg/l
79-10-7	Route of application	inhalation: vapour
	Exposure time / Frequency of treatment	90 d6 h/d, 5 d/w
	Species	mouse
	Method	equivalent or similar to OECD Guideline 413 (Subchronic
		Inhalation Toxicity: 90-Day)
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
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
		OECD Guideline 422 (Combined Repeated Dose Toxicity
	Method	
	Method	Study with the Reproduction / Developmental Toxicity
methacrylic acid	Result	Study with the Reproduction / Developmental Toxicity Screening Test)
methacrylic acid 79-41-4	Result Route of application	Study with the Reproduction / Developmental Toxicity Screening Test) inhalation
	Result Route of application Exposure time / Frequency of treatment	Study with the Reproduction / Developmental Toxicity Screening Test) inhalation 90 d6 h/d, 5 d/w
	Result Route of application Exposure time / Frequency of treatment Species	Study with the Reproduction / Developmental Toxicity Screening Test) inhalation 90 d6 h/d, 5 d/w rat
	Result Route of application Exposure time / Frequency of treatment	Study with the Reproduction / Developmental Toxicity Screening Test) inhalation 90 d6 h/d, 5 d/w rat OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-
79-41-4	Result Route of application Exposure time / Frequency of treatment Species Method	Study with the Reproduction / Developmental Toxicity Screening Test) inhalation 90 d6 h/d, 5 d/w rat OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
79-41-4 methyl methacrylate	Result Route of application Exposure time / Frequency of treatment Species Method Result	Study with the Reproduction / Developmental Toxicity Screening Test) inhalation 90 d6 h/d, 5 d/w rat OECD Guideline 413 (Subchronic Inhalation Toxicity: 90- Day) LOAEL=2000 ppm
79-41-4	Result Route of application Exposure time / Frequency of treatment Species Method Result Route of application	Study with the Reproduction / Developmental Toxicity Screening Test) inhalation 90 d6 h/d, 5 d/w rat OECD Guideline 413 (Subchronic Inhalation Toxicity: 90- Day) LOAEL=2000 ppm inhalation
79-41-4 methyl methacrylate	Result Route of application Exposure time / Frequency of treatment Species Method Result Route of application Exposure time / Frequency of treatment	Study with the Reproduction / Developmental Toxicity Screening Test) inhalation 90 d6 h/d, 5 d/w rat OECD Guideline 413 (Subchronic Inhalation Toxicity: 90- Day) LOAEL=2000 ppm inhalation 14 weeks6 hrs/day, 5 days/wk
79-41-4 methyl methacrylate	Result Route of application Exposure time / Frequency of treatment Species Method Result Route of application Exposure time / Frequency of treatment Species	Study with the Reproduction / Developmental Toxicity Screening Test) inhalation 90 d6 h/d, 5 d/w rat OECD Guideline 413 (Subchronic Inhalation Toxicity: 90- Day) LOAEL=2000 ppm inhalation 14 weeks6 hrs/day, 5 days/wk mouse
methyl methacrylate 80-62-6	Result Route of application Exposure time / Frequency of treatment Species Method Result Route of application Exposure time / Frequency of treatment Species Method	Study with the Reproduction / Developmental Toxicity Screening Test) inhalation 90 d6 h/d, 5 d/w rat OECD Guideline 413 (Subchronic Inhalation Toxicity: 90- Day) LOAEL=2000 ppm inhalation 14 weeks6 hrs/day, 5 days/wk mouse Dose Range Finding Study
methyl methacrylate 80-62-6 methyl methacrylate	Result Route of application Exposure time / Frequency of treatment Species Method Result Route of application Exposure time / Frequency of treatment Species Method Result Result	Study with the Reproduction / Developmental Toxicity Screening Test) inhalation 90 d6 h/d, 5 d/w rat OECD Guideline 413 (Subchronic Inhalation Toxicity: 90- Day) LOAEL=2000 ppm inhalation 14 weeks6 hrs/day, 5 days/wk mouse Dose Range Finding Study NOAEL=1000 ppm
methyl methacrylate 80-62-6	Result Route of application Exposure time / Frequency of treatment Species Method Result Route of application Exposure time / Frequency of treatment Species Method Result Route of application	Study with the Reproduction / Developmental Toxicity Screening Test) inhalation 90 d6 h/d, 5 d/w rat OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day) LOAEL=2000 ppm inhalation 14 weeks6 hrs/day, 5 days/wk mouse Dose Range Finding Study NOAEL=1000 ppm inhalation
methyl methacrylate 80-62-6 methyl methacrylate	Result Route of application Exposure time / Frequency of treatment Species Method Result Route of application Exposure time / Frequency of treatment Species Method Result Route of application Exposure time / Frequency of treatment Species Method Result Route of application Exposure time / Frequency of treatment	Study with the Reproduction / Developmental Toxicity Screening Test) inhalation 90 d6 h/d, 5 d/w rat OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day) LOAEL=2000 ppm inhalation 14 weeks6 hrs/day, 5 days/wk mouse Dose Range Finding Study NOAEL=1000 ppm inhalation 14 weeks6 hrs/day, 5 days/wk
methyl methacrylate 80-62-6 methyl methacrylate	Result Route of application Exposure time / Frequency of treatment Species Method Result Route of application Exposure time / Frequency of treatment Species Method Result Route of application Exposure time / Frequency of treatment Species	Study with the Reproduction / Developmental Toxicity Screening Test) inhalation 90 d6 h/d, 5 d/w rat OECD Guideline 413 (Subchronic Inhalation Toxicity: 90- Day) LOAEL=2000 ppm inhalation 14 weeks6 hrs/day, 5 days/wk mouse Dose Range Finding Study NOAEL=1000 ppm inhalation 14 weeks6 hrs/day, 5 days/wk mouse MOAEL=1000 ppm inhalation 14 weeks6 hrs/day, 5 days/wk mouse
methyl methacrylate 80-62-6 methyl methacrylate 80-62-6	Result Route of application Exposure time / Frequency of treatment Species Method Result Route of application Exposure time / Frequency of treatment Species Method Result Route of application Exposure time / Frequency of treatment Species Method Result Route of application Exposure time / Frequency of treatment Species Method	Study with the Reproduction / Developmental Toxicity Screening Test) inhalation 90 d6 h/d, 5 d/w rat OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day) LOAEL=2000 ppm inhalation 14 weeks6 hrs/day, 5 days/wk mouse Dose Range Finding Study NOAEL=1000 ppm inhalation 14 weeks6 hrs/day, 5 days/wk
methyl methacrylate 80-62-6 methyl methacrylate 80-62-6 n-Heptane	Result Route of application Exposure time / Frequency of treatment Species Method Result Route of application Exposure time / Frequency of treatment Species Method Result Route of application Exposure time / Frequency of treatment Species Method Result Route of application Exposure time / Frequency of treatment Species Method Result	Study with the Reproduction / Developmental Toxicity Screening Test) inhalation 90 d6 h/d, 5 d/w rat OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day) LOAEL=2000 ppm inhalation 14 weeks6 hrs/day, 5 days/wk mouse Dose Range Finding Study NOAEL=1000 ppm inhalation 14 weeks6 hrs/day, 5 days/wk mouse Dose Range Finding Study NOAEL=1000 ppm inhalation 14 weeks6 hrs/day, 5 days/wk mouse Dose Range Finding Study
methyl methacrylate 80-62-6 methyl methacrylate 80-62-6	Result Route of application Exposure time / Frequency of treatment Species Method Result Route of application Exposure time / Frequency of treatment Species Method Result Route of application Exposure time / Frequency of treatment Species Method Result Route of application Exposure time / Frequency of treatment Species Method Result Route of application	Study with the Reproduction / Developmental Toxicity Screening Test) inhalation 90 d6 h/d, 5 d/w rat OECD Guideline 413 (Subchronic Inhalation Toxicity: 90- Day) LOAEL=2000 ppm inhalation 14 weeks6 hrs/day, 5 days/wk mouse Dose Range Finding Study NOAEL=1000 ppm inhalation 14 weeks6 hrs/day, 5 days/wk mouse Dose Range Finding Study NOAEL=1000 ppm inhalation 14 weeks6 hrs/day, 5 days/wk mouse Dose Range Finding Study
methyl methacrylate 80-62-6 methyl methacrylate 80-62-6 n-Heptane	Result Route of application Exposure time / Frequency of treatment Species Method Result Route of application Exposure time / Frequency of treatment Species Method Result Route of application Exposure time / Frequency of treatment Species Method Result Route of application Exposure time / Frequency of treatment Species Method Result	Study with the Reproduction / Developmental Toxicity Screening Test) inhalation 90 d6 h/d, 5 d/w rat OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day) LOAEL=2000 ppm inhalation 14 weeks6 hrs/day, 5 days/wk mouse Dose Range Finding Study NOAEL=1000 ppm inhalation 14 weeks6 hrs/day, 5 days/wk mouse Dose Range Finding Study NOAEL=1000 ppm inhalation 14 weeks6 hrs/day, 5 days/wk mouse Dose Range Finding Study

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

Ecotoxicity: H412 Harmful to aquatic life with long lasting effects.

Toxicity:

2-Propenoic acid, 2-methyl-, 4-	Value type	LC50
(1,1-dimethylethyl	Value	Toxicity > Water solubility
46729-07-1	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Danio rerio
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-Propenoic acid, 2-methyl-, 4-	Value type	EC50
(1,1-dimethylethyl	Value	Toxicity > Water solubility
46729-07-1	Acute Toxicity Study	Daphnia
10/25 07 1	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-Propenoic acid, 2-methyl-, 4-	Value type	EC50
(1,1-dimethylethyl	Value	Toxicity > Water solubility
46729-07-1	Acute Toxicity Study	Algae
40/25-07-1	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata (reported as Raphidocelis subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	EC10
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata (reported as Raphidocelis subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Propenoic acid, 2-methyl-, 4-	Value type	EC50
(1,1-dimethylethyl	Value	Toxicity > Water solubility
46729-07-1	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	activated sludge of a predominantly domestic sewage
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
1-Methyltrimethylene	Value type	LC50
dimethacrylate	Value	32.5 mg/l
1189-08-8	Acute Toxicity Study	Fish
	Exposure time	48 h
	Species	
	Method	DIN 38412-15
1-Methyltrimethylene	Value type	EC50
dimethacrylate	Value	9.79 mg/l
1189-08-8	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	2.11 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
1-Methyltrimethylene	Value type	NOEC
dimethacrylate	Value	20 mg/l
1189-08-8	Acute Toxicity Study	Bacteria
-	Exposure time	28 d
	Species	activated sludge, domestic
	Method	not specified
Methacrylic acid, monoester with	Value type	LC50
propane-1,2-diol	Value	493 mg/l
27813-02-1	Acute Toxicity Study	Fish
2/013/02-1	Exposure time	48 h
	Species	Leuciscus idus melanotus
	ENDERGIES	peaciscus idus incianotus
		DIN 20412-15
Mathamilia asid marantar 22	Method	DIN 38412-15
Methacrylic acid, monoester with	Method Value type	EC50
Methacrylic acid, monoester with propane-1,2-diol 27813-02-1	Method	

	Exposure time	48 h
	Species Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Methacrylic acid, monoester with	Value type	EC50
propane-1,2-diol	Value	> 97.2 mg/l
27813-02-1	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	> 97.2 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
M-411:1	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Methacrylic acid, monoester with propane-1,2-diol	Value type Value	EC10 1,140 mg/l
27813-02-1	Acute Toxicity Study	Bacteria
27013 02 1	Exposure time	16 h
	Species	10 11
	Method	not specified
Acrylic acid	Value type	LC50
79-10-7	Value	27 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Salmo gairdneri (new name: Oncorhynchus mykiss)
	Method	EPA OTS 797.1400 (Fish Acute Toxicity Test)
	Value type	NOEC
	Value	>= 10.1 mg/l
	Acute Toxicity Study	Fish
	Exposure time	45 d
	Species	Oryzias latipes
	Method	OECD Guideline 210 (fish early lite stage toxicity test)
Acrylic acid	Value type	EC50
79-10-7	Value	95 mg/l
	Acute Toxicity Study Exposure time	Daphnia 48 h
	Species	Daphnia magna
	Method	EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test,
	ivictiod	Freshwater Daphnids)
Acrylic acid	Value type	EC10
79-10-7	Value	0.03 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Method	EU Method C.3 (Algal Inhibition test)
	Value type	EC50
	Value	0.13 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species Method	Scenedesmus subspicatus (new name: Desmodesmus subspicatus) EU Method C.3 (Algal Inhibition test)
A arrilia paid		
Acrylic acid 79-10-7	Value type Value	EC20 900 mg/l
/ /-10-/	Acute Toxicity Study	Bacteria
	Exposure time	30 min
	Species	activated sludge, domestic
	Method	ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated
		Sludge)
Octylphenol ethoxylate, 9-10EO	Value type	LC50
9036-19-5	Value	1.5 mg/l
	Acute Toxicity Study	Fish
	Exposure time	48 h
	Species	Ide, silver or golden orfe (Leuciscus idus)
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Octylphenol ethoxylate, 9-10EO	Value type	EC50
9036-19-5	Value	18 - 26 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species Method	Daphnia magna
	Method	not specified

α, α-dimethylbenzyl hydroperoxide	Value type	LC50
80-15-9	Value	3.9 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
α, α-dimethylbenzyl hydroperoxide	Value type	EC50
80-15-9	Value	18.84 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
1 1 1 1 1 1	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	Value type	EC50
80-13-9	Value Acute Toxicity Study	3.1 mg/l Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)
	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)
	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	Bacteria
	Exposure time	30 min
	Species	not specified
	Method	not specified
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
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
2,2'-Ethylenedioxydiethyl	Value type	EC50
dimethacrylate	Value type Value	EC50 > 100 mg/l
	Value type Value Acute Toxicity Study	EC50 > 100 mg/l Algae
dimethacrylate	Value type Value Acute Toxicity Study Exposure time	EC50 > 100 mg/l Algae 72 h
dimethacrylate	Value type Value Acute Toxicity Study Exposure time Species	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata
dimethacrylate	Value type Value Acute Toxicity Study Exposure time Species Method	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test)
dimethacrylate	Value type Value Acute Toxicity Study Exposure time Species Method Value type	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC
dimethacrylate	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 18.6 mg/l
dimethacrylate	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 18.6 mg/l Algae
dimethacrylate	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 18.6 mg/l Algae 72 h
dimethacrylate	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 18.6 mg/l Algae 72 h Pseudokirchneriella subcapitata
dimethacrylate 109-16-0	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 18.6 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test)
dimethacrylate	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	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 18.6 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50
dimethacrylate 109-16-0 methacrylic acid	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 18.6 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test)
dimethacrylate 109-16-0 methacrylic acid	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	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 18.6 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 85 mg/l
dimethacrylate 109-16-0 methacrylic acid	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	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 18.6 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 85 mg/l Fish
dimethacrylate 109-16-0 methacrylic acid	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	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 18.6 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 85 mg/l Fish 96 h
dimethacrylate 109-16-0 methacrylic acid	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 Acute Toxicity Study Exposure time Species Method Value type	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 18.6 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 B5 mg/l Fish 96 h Salmo gairdneri (new name: Oncorhynchus mykiss) EPA OTS 797.1400 (Fish Acute Toxicity Test) NOEC
dimethacrylate 109-16-0 methacrylic acid	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	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 18.6 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 B5 mg/l Fish 96 h Salmo gairdneri (new name: Oncorhynchus mykiss) EPA OTS 797.1400 (Fish Acute Toxicity Test) NOEC 10 mg/l
dimethacrylate 109-16-0 methacrylic acid	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 Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 18.6 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 BS mg/l Fish 96 h Salmo gairdneri (new name: Oncorhynchus mykiss) EPA OTS 797.1400 (Fish Acute Toxicity Test) NOEC 10 mg/l Fish
dimethacrylate 109-16-0 methacrylic acid	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 Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 18.6 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 BS mg/l Fish 96 h Salmo gairdneri (new name: Oncorhynchus mykiss) EPA OTS 797.1400 (Fish Acute Toxicity Test) NOEC 10 mg/l Fish 35 d
dimethacrylate 109-16-0 methacrylic acid	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 Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 18.6 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 85 mg/l Fish 96 h Salmo gairdneri (new name: Oncorhynchus mykiss) EPA OTS 797.1400 (Fish Acute Toxicity Test) NOEC 10 mg/l Fish 35 d Danio rerio
methacrylic acid 79-41-4	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 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	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 18.6 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 85 mg/l Fish 96 h Salmo gairdneri (new name: Oncorhynchus mykiss) EPA OTS 797.1400 (Fish Acute Toxicity Test) NOEC 10 mg/l Fish 35 d Danio rerio OECD Guideline 210 (fish early lite stage toxicity test)
methacrylic acid 79-41-4 methacrylic acid	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 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	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 18.6 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 85 mg/l Fish 96 h Salmo gairdneri (new name: Oncorhynchus mykiss) EPA OTS 797.1400 (Fish Acute Toxicity Test) NOEC 10 mg/l Fish 35 d Danio rerio OECD Guideline 210 (fish early lite stage toxicity test) EC50
methacrylic acid 79-41-4	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 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 type Value	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 18.6 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 85 mg/l Fish 96 h Salmo gairdneri (new name: Oncorhynchus mykiss) EPA OTS 797.1400 (Fish Acute Toxicity Test) NOEC 10 mg/l Fish 35 d Danio rerio OECD Guideline 210 (fish early lite stage toxicity test) EC50 > 130 mg/l
methacrylic acid 79-41-4 methacrylic acid	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 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	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 18.6 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 85 mg/l Fish 96 h Salmo gairdneri (new name: Oncorhynchus mykiss) EPA OTS 797.1400 (Fish Acute Toxicity Test) NOEC 10 mg/l Fish 35 d Danio rerio OECD Guideline 210 (fish early lite stage toxicity test) EC50 > 130 mg/l Daphnia
methacrylic acid 79-41-4 methacrylic acid	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 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	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 18.6 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 85 mg/l Fish 96 h Salmo gairdneri (new name: Oncorhynchus mykiss) EPA OTS 797.1400 (Fish Acute Toxicity Test) NOEC 10 mg/l Fish 35 d Danio rerio OECD Guideline 210 (fish early lite stage toxicity test) EC50 > 130 mg/l Daphnia 48 h
methacrylic acid 79-41-4 methacrylic acid	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 Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 18.6 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 85 mg/l Fish 96 h Salmo gairdneri (new name: Oncorhynchus mykiss) EPA OTS 797.1400 (Fish Acute Toxicity Test) NOEC 10 mg/l Fish 35 d Danio rerio OECD Guideline 210 (fish early lite stage toxicity test) EC50 > 130 mg/l Daphnia 48 h Daphnia magna
methacrylic acid 79-41-4 methacrylic acid	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 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	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 18.6 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 85 mg/l Fish 96 h Salmo gairdneri (new name: Oncorhynchus mykiss) EPA OTS 797.1400 (Fish Acute Toxicity Test) NOEC 10 mg/l Fish 35 d Danio rerio OECD Guideline 210 (fish early lite stage toxicity test) EC50 > 130 mg/l Daphnia 48 h Daphnia magna EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test,
methacrylic acid 79-41-4 methacrylic acid 79-41-4	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 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	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 18.6 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 R5 mg/l Fish 96 h Salmo gairdneri (new name: Oncorhynchus mykiss) EPA OTS 797.1400 (Fish Acute Toxicity Test) NOEC 10 mg/l Fish 35 d Danio rerio OECD Guideline 210 (fish early lite stage toxicity test) EC50 > 130 mg/l Daphnia 48 h Daphnia magna EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)
methacrylic acid 79-41-4 methacrylic acid 79-41-4 methacrylic acid 79-41-4	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 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 Acute Toxicity Study Exposure time Species Method	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 18.6 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 R5 mg/l Fish 96 h Salmo gairdneri (new name: Oncorhynchus mykiss) EPA OTS 797.1400 (Fish Acute Toxicity Test) NOEC 10 mg/l Fish 35 d Danio rerio OECD Guideline 210 (fish early lite stage toxicity test) EC50 > 130 mg/l Daphnia 48 h Daphnia magna EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids) NOEC
methacrylic acid 79-41-4 methacrylic acid 79-41-4	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 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 Acute Toxicity Study Exposure time Species Method	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 18.6 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 R5 mg/l Fish 96 h Salmo gairdneri (new name: Oncorhynchus mykiss) EPA OTS 797.1400 (Fish Acute Toxicity Test) NOEC 10 mg/l Fish 35 d Danio rerio OECD Guideline 210 (fish early lite stage toxicity test) EC50 > 130 mg/l Daphnia 48 h Daphnia magna EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids) NOEC 8.2 mg/l
methacrylic acid 79-41-4 methacrylic acid 79-41-4 methacrylic acid 79-41-4	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 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 Acute Toxicity Study Exposure time Species Method	EC50 > 100 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 18.6 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 R5 mg/l Fish 96 h Salmo gairdneri (new name: Oncorhynchus mykiss) EPA OTS 797.1400 (Fish Acute Toxicity Test) NOEC 10 mg/l Fish 35 d Danio rerio OECD Guideline 210 (fish early lite stage toxicity test) EC50 > 130 mg/l Daphnia 48 h Daphnia magna EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids) NOEC

	Cmasias	Colon ostromo compico montromo (nove nomo e Popudo binoho miello sub conitato)
	Species Method	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) OECD Guideline 201 (Alga, Growth Inhibition Test)
		EC50
	Value type Value	
		45 mg/l
	Acute Toxicity Study	Algae 72 h
	Exposure time	
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
.1 1: 1:1	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
methacrylic acid	Value type	EC10
79-41-4	Value	100 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	17 h
	Species	Pseudomonas putida
	Method	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
methyl methacrylate	Value type	LC50
80-62-6	Value	350 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Leuciscus idus
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
methyl methacrylate	Value type	EC50
80-62-6	Value	69 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test,
		Freshwater Daphnids)
methyl methacrylate	Value type	EC50
80-62-6	Value	170 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	100 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
methyl methacrylate	Value type	EC20
80-62-6	Value	> 150 - 200 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	30 min
	Species	activated sludge, domestic
	Method	ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated
	rvictilod	Sludge)
n-Heptane	Value type	LC50
142-82-5	Value	> 220 - 270 mg/l
1.2 02 0	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Leuciscus idus
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
n-Heptane	Value type	EC50
n-нерtапе 142-82-5		
142-02-3	Value	1.5 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	other guideline:

Persistence and degradability:

2-Propenoic acid, 2-methyl-, 4-	Result	not readily biodegradable.
(1,1-dimethylethyl	Route of application	aerobic
46729-07-1	Degradability	63 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
1-Methyltrimethylene	Result	readily biodegradable
dimethacrylate	Route of application	aerobic
1189-08-8	Degradability	84 %
	Method	OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels
		(Headspace Test)

Methacrylic acid, monoester	Result	readily biodegradable
with propane-1,2-diol	Route of application	aerobic
27813-02-1	Degradability	94.2 %
	Method	OECD Guideline 301 E (Ready biodegradability: Modified OECD
		Screening Test)
Acrylic acid	Result	inherently biodegradable
79-10-7	Route of application	aerobic
	Degradability	100 %
	Method	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA
		Test)
	Result	readily biodegradable
	Route of application	aerobic
	Degradability	81 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Octylphenol ethoxylate, 9-10EO	Result	readily biodegradable
9036-19-5	Route of application	aerobic
	Degradability	> 70 %
	Method	OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die
		Away 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)
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)
methacrylic acid	Result	readily biodegradable
79-41-4	Route of application	aerobic
	Degradability	86 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
	Result	inherently biodegradable
	Route of application	aerobic
	Degradability	100 %
	Method	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA
		Test)
methyl methacrylate	Result	readily biodegradable
80-62-6	Route of application	aerobic
	Degradability	94 %
	Method	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
n-Heptane	Result	readily biodegradable
142-82-5	Route of application	aerobic
	Degradability	70 %
	Method	other guideline:

Bioaccumulative potential / Mobility in soil:

2-Propenoic acid, 2-methyl-, 4-	LogPow	5.83 - 6.07
(1,1-dimethylethyl 46729-07-1	Temperature	30 °C
	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Methacrylic acid, monoester	LogPow	0.97
with propane-1,2-diol	Temperature	20 °C
27813-02-1	Method	not specified
Acrylic acid	Bioconcentration factor (BCF)	3.16
79-10-7	Exposure time	
	Species	
	Temperature	
	Method	QSAR (Quantitative Structure Activity Relationship)
Acrylic acid	LogPow	0.46
79-10-7	Temperature	25 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
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)
2,2'-Ethylenedioxydiethyl	LogPow	2.3
dimethacrylate	Temperature	
109-16-0	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
methacrylic acid	LogPow	0.93
79-41-4	Temperature	22 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
methyl methacrylate	LogPow	1.38
80-62-6	Temperature	20 °C
	Method	other guideline:
Acetic acid, 2-phenylhydrazide	LogPow	0.74
114-83-0	Temperature	
	Method	not specified
n-Heptane	Bioconcentration factor (BCF)	552
142-82-5	Exposure time	
	Species	calculation
	Temperature	
	Method	QSAR (Quantitative Structure Activity Relationship)
n-Heptane	LogPow	4.66
142-82-5	Temperature	
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask 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
EINECS	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.

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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