

Safety Data Sheet

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LOCTITE 638 RC BO50ML EN/CH/JP

SDS No. : 450822 V001.11 Revision: 15.08.2024 <u>printing date</u>: 13.09.2024

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

Product name: LOCTITE 638 RC BO50ML EN/CH/JP

Other means of identification: LOCTITE 638 RC BO50ML EN/CH/JP

Product code: IDH1800356 Recommended use of the chemical and restrictions on use

Intended use: Anaerobic 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

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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

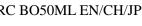
Section 2. Hazards identification

GHS Classification:

Hazard Class	Hazard Category	Target organ
Skin corrosion/irritation	Category 2	
Serious eye damage/eye irritation	Category 1	
Skin sensitizer	Category 1	
Specific target organ toxicity - single exposure	Category 3	respiratory tract irritation
Chronic hazards to the aquatic environment	Category 2	

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.

H411 Toxic 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+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.

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

P391 Collect spillage.

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
3,3,5 Trimethylcyclohexyl methacrylate	10- 30 %	Skin corrosion/irritation 2
7779-31-9		H315 Serious eye damage/eye irritation 2A
		H319
		Skin sensitizer 1B H317
		Specific target organ toxicity - single exposure 3 H335
		Acute hazards to the aquatic environment 2 H401
		Chronic hazards to the aquatic environment 2 H411
2-Hydroxyethyl methacrylate	10- 30 %	Skin corrosion/irritation 2
868-77-9		H315 Serious eye damage/eye irritation 2A H319
		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
Methacrylic acid, monoester with propane-1,2-diol	1- 10 %	Serious eye damage/eye irritation 2B
27813-02-1		H320 Skin sensitizer 1
		H317
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
maleic acid 110-16-7	0.1- 1 %	Acute toxicity 4; Oral H302
110-10-7		Acute toxicity 4; Dermal
		H312 Skin corrosion/irritation 2
		H315 Serious eye damage/eye irritation 2A
		H319

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		Skin sensitizer 1 H317 Specific target organ toxicity - single exposure 3 H335 Acute hazards to the aquatic environment 3 H402
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
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	0.1- 1%	Skin sensitizer 1B H317 Acute hazards to the aquatic environment 3 H402
methacrylic acid 79-41-4	0.1- 1 %	Flammable liquids 4 H227 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
2-Propenoic acid, 2-methyl-, 2-(2-hydroxyethoxy)ethyl ester 2351-43-1	0.1- 1%	Serious eye damage/eye irritation 2B H320 Skin sensitizer 1 H317

Section 4. First aid measures

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

IF ON SKIN: Wash with plenty of soap and water. Seek medical advice.

Eye contact:

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

Seek medical advice.

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 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 contact with skin and eyes. Wear protective equipment. Ensure adequate ventilation. Remove sources of ignition. 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:

Avoid skin and eye contact. See advice in section 8

Storage: Ensure good ventilation/extraction. Keep container tightly sealed. 18 °C - 25 °C Refer to Technical Data Sheet.

Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

ACRYLIC ACID 79-10-7	Value type	Time Weighted Average (TWA):
	ppm	2
	Remarks	ACGIH
ACRYLIC ACID 79-10-7	Value type	Time Weighted Average (TWA):
	ррт	2
	Remarks	TH OEL
ACRYLIC ACID 79-10-7	Value type	Skin designation:
	Remarks	ACGIH Danger of cutaneous absorption
METHACRYLIC ACID 79-41-4	Value type	Time Weighted Average (TWA):
	ppm	20
	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:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing. Protective eye equipment should conform to EN166.

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.

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:	1.1
Boiling point:	$> 150 ^{\circ}\text{C} (> 302 ^{\circ}\text{F})$

mening point / meezing point.	Not applicable, I focuet is a liqui
Specific gravity:	1.1
Boiling point:	> 150 °C (> 302 °F)
Flash point:	>100 °C (>212 °F)
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:	< 10 mm hg
(; 27 °C (80.6 °F); 20 °C (68 °F))	< 0.13 mbar
Vapor density:	> 1
Density:	1.1 g/cm3
Solubility:	Insoluble
Partition coefficient: n-	No data available.
octanol/water:	
Auto ignition:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
VOC content:	< 3 %

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 Hazardous decomposition products: In case of fire toxic gases can be released.

Toxicological information Section 11. **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 Acute toxicity estimate (ATE) : > 2,000 mg/kg **Dermal toxicity:** Method: Calculation method Skin irritation: Result: Category 2 (irritant)

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision). RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness. SKIN: Redness, inflammation. SKIN: Rash, Urticaria.

Acute oral toxicity:

3,3,5 Trimethylcyclohexyl	Value type	LD0
methacrylate	Value	> 5,000 mg/kg
7779-31-9	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
3,3,5 Trimethylcyclohexyl	Value type	LD50
methacrylate	Value	> 5,000 mg/kg
7779-31-9	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
2-Hydroxyethyl methacrylate	Value type	LD50
868-77-9	Value	5,564 mg/kg
	Species	rat
	Method	FDA Guideline
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)
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)
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
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)
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)
2-Propenoic acid, 2-methyl-, 2-(2-	Value type	LD50
hydroxyethoxy)ethyl ester	Value	5,564 mg/kg
2351-43-1	Species	rat
	Method	FDA Guideline

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	3.19 - 6.5 mg/l
	Exposure time	4 h
	Species	rat
	Method	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
methacrylic acid	Value type	Acute toxicity estimate (ATE)
79-41-4	Value	3.19 mg/l
	Exposure time	
	Species	
	Method	Expert judgement

Acute dermal toxicity:

3,3,5 Trimethylcyclohexyl	Value type	LD0
methacrylate	Value	> 2,000 mg/kg
7779-31-9	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
3,3,5 Trimethylcyclohexyl	Value type	LD50
methacrylate	Value	> 2,000 mg/kg
7779-31-9	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
2-Hydroxyethyl methacrylate	Value type	LD50
868-77-9	Value	> 5,000 mg/kg
	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
Methacrylic acid, monoester with	Value type	LD50
propane-1,2-diol	Value	> 5,000 mg/kg
27813-02-1	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
maleic acid	Value type	LD50
110-16-7	Value	1,560 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
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
2-Propenoic acid, 2-methyl-, 2-(2-	Value type	LD50
hydroxyethoxy)ethyl ester	Value	> 5,000 mg/kg
2351-43-1	Species	rabbit
	Method	not specified

Skin corrosion/irritation:

2-Hydroxyethyl methacrylate	Result	slightly irritating
868-77-9	Exposure time	24 h
	Species	rabbit
	Method	Draize Test
Acrylic acid	Result	Sub-Category 1A (corrosive)
79-10-7	Exposure time	3 min
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Methacrylic acid, monoester with	Result	not irritating
propane-1,2-diol	Exposure time	24 h
27813-02-1	Species	rabbit
	Method	Draize Test
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
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)
2,2'-Ethylenedioxydiethyl dimethacrylate	Result	not irritating
109-16-0	Exposure time	24 h
	Species	rabbit
	Method	Draize Test
methacrylic acid 79-41-4	Result	corrosive
	Exposure time	3 min
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2-Propenoic acid, 2-methyl-, 2-(2-	Result	not irritating
hydroxyethoxy)ethyl ester	Exposure time	24 h
2351-43-1	Species	rabbit

Serious eye damage/irritation:

868-77-9	Result	Category 2B (mildly irritating to eyes)
000 11 2	Exposure time	
	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
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
maleic acid	Result	highly irritating
110-16-7	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)
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
	D 1	• •, ,•
2-Propenoic acid, 2-methyl-, 2-(2-	Result	irritating
hydroxyethoxy)ethyl ester	Exposure time	irritating
		rabbit

Respiratory or skin sensitization:

3,3,5 Trimethylcyclohexyl	Result	sensitising
methacrylate	Test type	Mouse local lymphnode assay (LLNA)
7779-31-9	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
2-Hydroxyethyl methacrylate	Result	not sensitising
868-77-9	Test type	Buehler test
	Species	guinea pig
	Method	Buehler test
2-Hydroxyethyl methacrylate	Result	sensitising
868-77-9	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	Magnusson and Kligman Method
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
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
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)
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)
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)

Germ cell mutagenicity:

3,3,5 Trimethylcyclohexyl	Result	negative
methacrylate	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
7779-31-9	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2-Hydroxyethyl methacrylate	Result	negative
868-77-9	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)
2-Hydroxyethyl methacrylate	Result	positive
868-77-9	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
	moniou	Aberration Test)
2-Hydroxyethyl methacrylate	Result	negative
868-77-9	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
	Method	Mutation Test)
2-Hydroxyethyl methacrylate	Result	negative
868-77-9	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
	Species	rat
	Method	OECD Guideline 474 (Mammalian Erythrocyte
		Micronucleus Test)
2-Hydroxyethyl methacrylate	Result	negative
868-77-9	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
	Species	Drosophila melanogaster
	Method	not specified
Acrylic acid	Result	negative
79-10-7	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
	Method	Reverse Mutation Assay)
Acrylic acid	Result	negative
79-10-7	Type of study / Route of administration	mammalian cell gene mutation assay
/9-10-/	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 476 (In vitro
	D 1	Mammalian Cell Gene Mutation Test)
Acrylic acid	Result	negative
79-10-7	Type of study / Route of administration	DNA damage and repair assay, unscheduled DNA
		.1
		synthesis in mammalian cells in vitro
	Metabolic activation / Exposure time	without
	Metabolic activation / Exposure time Method	without equivalent or similar to OECD Guideline 482 (Genetic
		without equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA
		without equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells
	Method Result	without equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA
Acrylic acid 79-10-7	Method	without equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells
	Method Result	without equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells negative
	Method Result Type of study / Route of administration	without equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells negative
	Method Result Type of study / Route of administration Metabolic activation / Exposure time	without equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells negative oral: gavage rat equivalent or similar to OECD Guideline 475
	Method Result Type of study / Route of administration Metabolic activation / Exposure time Species	without equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells negative oral: gavage rat
79-10-7	Method Result Type of study / Route of administration Metabolic activation / Exposure time Species	without equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells negative oral: gavage rat equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
79-10-7	Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result	without equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells negative oral: gavage rat equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) negative
79-10-7 Acrylic acid	Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration	without equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells negative oral: gavage rat equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
79-10-7 Acrylic acid	Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration Metabolic activation / Exposure time	without equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells negative oral: gavage rat equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) negative oral: gavage
79-10-7 Acrylic acid	Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration Metabolic activation / Exposure time Species	without equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells negative oral: gavage rat equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) negative oral: gavage
79-10-7 Acrylic acid 79-10-7	Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method	without equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells negative oral: gavage rat equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) negative oral: gavage mouse not specified
79-10-7 Acrylic acid 79-10-7 Methacrylic acid, monoester	Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Metabolic activation / Exposure time Species Method Result	without equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells negative oral: gavage rat equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) negative oral: gavage mouse not specified negative
79-10-7 Acrylic acid 79-10-7 Methacrylic acid, monoester with propane-1,2-diol	Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration Method Result Type of study / Route of administration	without equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells negative oral: gavage rat equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) negative oral: gavage mouse not specified negative bacterial reverse mutation assay (e.g Ames test)
79-10-7 Acrylic acid 79-10-7 Methacrylic acid, monoester with propane-1,2-diol	Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration Method Result Type of study / Route of administration Method Result Type of study / Route of administration Metabolic activation / Exposure time	without equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells negative oral: gavage rat equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) negative oral: gavage mouse not specified negative bacterial reverse mutation assay (e.g Ames test) with and without
79-10-7 Acrylic acid 79-10-7 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1	Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration Method Result Type of study / Route of administration Method Result Type of study / Route of administration Metabolic activation / Exposure time Method	without equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells negative oral: gavage rat equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) negative oral: gavage mouse not specified negative bacterial reverse mutation assay (e.g Ames test) with and without OECD Guideline 471 (Bacterial Reverse Mutation Assay)
79-10-7 Acrylic acid 79-10-7 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester	Method Result Type of study / Route of administration Method Species Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration Method Result Type of study / Route of administration Method Result Type of study / Route of administration Method Result Type of study / Route of administration Method Result Type assure time Method Result	without equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells negative oral: gavage rat equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) negative oral: gavage mouse not specified negative bacterial reverse mutation assay (e.g Ames test) with and without OECD Guideline 471 (Bacterial Reverse Mutation Assay) positive
79-10-7 Acrylic acid 79-10-7 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol	Method Result Type of study / Route of administration Method Species Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration Method Result Type of study / Route of administration Method Result Type of study / Route of administration Method Result Type of study / Route of administration Method Result Type of study / Route of administration	without equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells negative oral: gavage rat equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) negative oral: gavage mouse not specified negative bacterial reverse mutation assay (e.g Ames test) with and without OECD Guideline 471 (Bacterial Reverse Mutation Assay) positive in vitro mammalian chromosome aberration test
79-10-7 Acrylic acid 79-10-7 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester	Method Result Type of study / Route of administration Method Species Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration Method Result Type of study / Route of administration Method Result Type of study / Route of administration Method Result Type of study / Route of administration Method Result Type assure time Method Result	without equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells negative oral: gavage rat equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) negative oral: gavage mouse not specified negative bacterial reverse mutation assay (e.g Ames test) with and without OECD Guideline 471 (Bacterial Reverse Mutation Assay) positive
79-10-7 Acrylic acid 79-10-7 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol	Method Result Type of study / Route of administration Method Species Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration Method Result Type of study / Route of administration Method Result Type of study / Route of administration Method Result Type of study / Route of administration Method Result Type of study / Route of administration	without equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells negative oral: gavage rat equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) negative oral: gavage mouse not specified negative bacterial reverse mutation assay (e.g Ames test) with and without OECD Guideline 471 (Bacterial Reverse Mutation Assay) positive in vitro mammalian chromosome aberration test
Acrylic acid 79-10-7 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1	Method Result Type of study / Route of administration Method Species Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration Method Result Type of study / Route of administration Method Result Type of study / Route of administration Method Result Type of study / Route of administration Method Result Type of study / Route of administration Method Result Type of study / Route of administration Method Result Type of study / Route of administration Metabolic activation / Exposure time	without equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells negative oral: gavage rat equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) negative oral: gavage mouse not specified negative bacterial reverse mutation assay (e.g Ames test) with and without OECD Guideline 471 (Bacterial Reverse Mutation Assay) positive in vitro mammalian chromosome aberration test
79-10-7 Acrylic acid 79-10-7 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol	Method Result Type of study / Route of administration Method Species Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration Method Result Type of study / Route of administration Method Result Type of study / Route of administration Method Result Type of study / Route of administration Method Result Type of study / Route of administration Method Result Type of study / Route of administration Method	without equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells negative oral: gavage rat equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) negative oral: gavage mouse not specified negative bacterial reverse mutation assay (e.g Ames test) with and without OECD Guideline 471 (Bacterial Reverse Mutation Assay) positive in vitro mammalian chromosome aberration test with and without Chromosome Aberration Test

	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Methacrylic acid, monoester	Result	negative
with propane-1,2-diol	Type of study / Route of administration	oral: gavage
27813-02-1	Metabolic activation / Exposure time	
	Species	mouse
	Method	OECD Guideline 474 (Mammalian Erythrocyte
	method	Micronucleus Test)
Methacrylic acid, monoester	Result	negative
with propane-1,2-diol	Type of study / Route of administration	oral: gavage
27813-02-1	Metabolic activation / Exposure time	
27013 02 1	Species	Drosophila melanogaster
	Method	not specified
12 .1 11 1		
α, α-dimethylbenzyl	Result	positive
hydroperoxide	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
80-15-9	Metabolic activation / Exposure time	without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
α, α-dimethylbenzyl	Result	negative
hydroperoxide	Type of study / Route of administration	dermal
80-15-9	Metabolic activation / Exposure time	
	Species	mouse
	Method	not specified
maleic acid	Result	negative
110-16-7	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	no data
	Method	Ames Test
1 · · · ·		
maleic acid	Result	negative
110-16-7	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene
		Mutation Test)
Acetic acid, 2-phenylhydrazide	Result	positive
114-83-0	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
	Wethou	Micronucleus Test)
2,2'-Ethylenedioxydiethyl	Result	negative
dimethacrylate	Type of study / Route of administration	mammalian cell gene mutation assay
109-16-0	Metabolic activation / Exposure time	with and without
109-10-0	*	
	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)
methacrylic acid	Result	negative
79-41-4	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
// 11 1	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 471 (Bacteria
	Method	Reverse Mutation Assay)
matheorylic:-!	P aquit	
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

Repeated dose toxicity:

3,3,5 Trimethylcyclohexyl	Result	NOAEL=1,000 mg/kg
methacrylate 7779-31-9	Route of application	oral: gavage
	Exposure time / Frequency of treatment	28 ddaily
	Species	rat
	Method	OECD Guideline 422 (Combined Repeated Dose Toxicity
		Study with the Reproduction / Developmental Toxicity
		Screening Test)
2-Hydroxyethyl methacrylate	Result	NOAEL=100 mg/kg
868-77-9	Route of application	oral: gavage
	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)
2-Hydroxyethyl methacrylate	Result	NOAEL=0.352 mg/l
868-77-9	Route of application	inhalation
	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)
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)
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)
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)
methacrylic acid	Result	
79-41-4	Route of application	inhalation
// 11 7	Exposure time / Frequency of treatment	90 d6 h/d, 5 d/w
	Species	rat
	Method	OECD Guideline 413 (Subchronic Inhalation Toxicity: 9

Day)

Section 12. Ecological information

General ecological information:

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

Ecotoxicity:

H411 Toxic to aquatic life with long lasting effects.

Toxicity:

3,3,5 Trimethylcyclohexyl	Value type	LC50
methacrylate	Value	1.9 mg/l
7779-31-9	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Brachydanio rerio (new name: Danio rerio)
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
3,3,5 Trimethylcyclohexyl	Value type	EC50
methacrylate	Value	14.43 mg/l
7779-31-9	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
3,3,5 Trimethylcyclohexyl	Value type	EC10
methacrylate	Value	0.43 mg/l
7779-31-9	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Hydroxyethyl methacrylate	Value type	LC50
868-77-9	Value	> 100 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oryzias latipes
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-Hydroxyethyl methacrylate	Value type	EC50
868-77-9	Value	380 mg/l
000 // 2	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-Hydroxyethyl methacrylate	Value type	EC50
868-77-9	Value	836 mg/l
000 // 2	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	400 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
2 Hydroyyathyl matheorylate	Value type	EC0
2-Hydroxyethyl methacrylate 868-77-9	Value	> 3,000 mg/l
808-77-9		Bacteria
	Acute Toxicity Study Exposure time	16 h
	Species	Pseudomonas fluorescens
	Species Method	
A 1' ' 1		other guideline:
Acrylic acid	Value type	LC50
79-10-7	Value	27 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h

Methacrylic acid, monoester with propane-1,2-diol 27813-02-1Value typeLLC5027813-02-1Value493 mg/lAcute Toxicity StudyFishExposure time48 hSpeciesLeuciscus idus melanotusMethacrylic acid, monoester with propane-1,2-diolValue type27813-02-1Kate Toxicity StudyBebosure time48 hSpeciesLeuciscus idus melanotusMethacrylic acid, monoester with propane-1,2-diolValue type27813-02-1Acute Toxicity StudyBeposure time48 hSpeciesDaphniaMethacdOECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)Methacrylic acid, monoester with propane-1,2-diolValue typeZ7813-02-1Acute Toxicity StudyAlgue97,2 mg/lAcute Toxicity StudyAlgueSpeciesPseudokirchneriella subcapitataMethodOECD Guideline 201 (Alga, Growth Inhibition Test)MethodOECDValue typeNOECValue typeValueValue typeNOECValue typeEC10WethodOECD Guideline 201 (Alga, Growth Inhibition Test)MethodOECD Guideline 201 (Alga, Grow		Species	Salmo gairdneri (new name: Oncorhynchus mykiss)
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INTERIOU INTERIO INTERIO ACO E TOXICO VIESO		Method	OECD Guideline 203 (Fish, Acute Toxicity Test)

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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
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
α , α -dimethylbenzyl hydroperoxide	Value type	EC50
80-15-9	Value	3.1 mg/l
	Acute Toxicity Study Exposure time	Algae
	Species	72 h 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		EC10
80-15-9	Value	70 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time Species	30 min 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 Species	48 h
	Method	Daphnia magna OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
maleic acid	Value type	EC50
110-16-7	Value	74.35 mg/l
	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 Pseudokirchneriella subcapitata
	Species Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
maleic acid	Value type	EC10
110-16-7	Value	44.6 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	18 h
	Species	Pseudomonas putida
	Method	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
Acetic acid, 2-phenylhydrazide	Value type	EC50
114-83-0	Value	1.1 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species Method	Daphnia magna 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
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
		NOEC
	Value type	
	Value	0.01 mg/l
	Value Acute Toxicity Study	0.01 mg/l Algae
	Value	0.01 mg/l

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	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
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	> 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	NOEC
	Value	18.6 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
methacrylic acid	Value type	LC50
79-41-4	Value	85 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 mg/l
	Acute Toxicity Study	Fish
	Exposure time	35 d
	Species	Danio rerio
	Method	OECD Guideline 210 (fish early lite stage toxicity test)
		EC50
methacrylic acid 79-41-4	Value type	> 130 mg/l
79-41-4	Value	
	Acute Toxicity Study	Daphnia 48 h
	Exposure time	
	Species Method	Daphnia magna
	Method	EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)
	X7-1	NOEC
methacrylic acid 79-41-4	Value type Value	8.2 mg/l
79-41-4		
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	EC50
	Value	45 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata
.1 11 11	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)

Persistence and degradability:

3,3,5 Trimethylcyclohexyl	Result	not readily biodegradable.
methacrylate	Route of application	aerobic
7779-31-9	Degradability	16.8 %
	Method	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry
		Test)
2-Hydroxyethyl methacrylate	Result	readily biodegradable
868-77-9	Route of application	aerobic
	Degradability	92 - 100 %
	Method	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))

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)
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)
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)
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)
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)
2-Propenoic acid, 2-methyl-, 2-	Result	readily biodegradable
(2-hydroxyethoxy)ethyl ester	Route of application	aerobic
2351-43-1	Degradability	92 - 100 %
	Method	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))

Bioaccumulative potential / Mobility in soil:

3,3,5 Trimethylcyclohexyl	LogPow	5.25
methacrylate	Temperature	20 °C
7779-31-9	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC
		Method)
2-Hydroxyethyl methacrylate	LogPow	0.42
868-77-9	Temperature	25 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
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)
Methacrylic acid, monoester	LogPow	0.97
with propane-1,2-diol	Temperature	20 °C
27813-02-1	Method	not specified
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)
Acetic acid, 2-phenylhydrazide	LogPow	0.74
114-83-0	Temperature	
	Method	QSAR (Quantitative Structure Activity Relationship)
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)

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:

Class:	9
Packing group:	III
Classification code:	M6
Hazard ident. number:	90
UN no.:	3082
Label:	9
Technical name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S. (1-Acetyl-2-phenylhydrazine)

Railroad transport RID:

Class:	9
Packing group:	III
Classification code:	M6
Hazard ident. number:	90
UN no.:	3082
Label:	9
Technical name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S. (1-Acetyl-2-phenylhydrazine)

Inland water transport ADN:

Class:	9
Packing group:	III
Classification code:	M6
Hazard ident. number:	90
UN no.:	3082
Label:	9
Technical name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S. (1-Acetyl-2-phenylhydrazine)

Marine transport IMDG:

Class:	9
Packing group:	III
UN no.:	3082
Label:	9
EmS:	F-A ,S-F
Seawater pollutant:	Marine pollutant
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-Acetyl-2-phenylhydrazine)

Air transport IATA:

Class:	9
Packing group:	III
Packaging instructions (passenger):	964
Packaging instructions (cargo):	964
UN no.:	3082
Label:	9
Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (1-Acetyl-2-
	phenylhydrazine)

Further information for transport:

The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), A197 (IATA), 2.10.2.7 (IMDG), NZ 4.3(10) may be applied, which can result in a deviation from the transport classification for packed 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
ISHL (JP)	yes

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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.

Dear Customer,

Henkel is committed to creating a sustainable future by promoting opportunities along the entire value chain. If you would like to contribute by switching from a paper to the electronic version of SDS, please contact the local Customer Service representative. We recommend to use a non-personal email address (e.g. SDS@your_company.com).