

Safety Data Sheet

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LOCTITE 648 RC known as Loctite 648 RC BO50ML EN/CH/JP

SDS No.: 450730 V001.13

Revision: 13.06.2022 printing date: 13.09.2024

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

Product name:

LOCTITE 648 RC known as Loctite 648 RC BO50ML EN/CH/JP

Other means of identification:

LOCTITE 648 RC BO50ML EN/CH/JPLOCTITE 648 RC BO50ML EN/CH/JP

Product code:

IDH1800518

Recommended use of the chemical and restrictions on use

Intended use:

Adhesive

Identification of manufacturer, importer or distributor

Manufacturer: Henkel Adhesives Technologies India Pvt. Ltd. D3/D4, MIDC, Jejuri - 412303 India. TEL: +91 2115 300017 / 18 FAX: +91 2115 253448, Website: www.henkel.com

Importer: Henkel Thailand Ltd The Offices at Centralworld, 35th Floor, 999/9 Rama 1 Rd, Kwang Patumwan, Khet Patumwan, Bangkok 10330, Thailand. Phone: + 6622098000 Fax: +6622098008

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

ap-ua-psra.sea@henkel.com

Emergency information:

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

GHS label elements:

Hazard pictogram:

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EN/CH/JP



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+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.

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
Reaction mass of (1-methylethylidene)bis(4,1- phenyleneoxy-2,1-ethanediyl) bismethacrylate and 2-	30- 60 %	Chronic hazards to the aquatic environment 4 H413
{4-[2-(4-{2-[2-		H413
(methacryloyloxy)ethoxy]ethoxy}phenyl)propan-2-		
yl]phenoxy}ethyl methacrylate	10 20 0/	
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	10- 30 %	Skin corrosion/irritation 2 H315
1117 51 7		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 868-77-9	10- 30 %	Skin corrosion/irritation 2 H315
000-77-9		Serious eye damage/eye irritation 2A
		H319
		Skin sensitizer 1 H317
Acrylic acid	1- 10 %	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
		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	1- 10 %	Flammable liquids 4
80-15-9		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

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110.16.7		11202
110-16-7		H302
		Acute toxicity 4; Dermal
		Skin corrosion/irritation 2
		H315
		Serious eye damage/eye irritation 2A
		H319
		Skin sensitizer 1
		H317
		Specific target organ toxicity - single exposure 3 H335
		Acute hazards to the aquatic environment 3
		H402
Reaction products of 4,4'-isopropylidenediphenol,	0.1- 1 %	Chronic hazards to the aquatic environment 4
ethoxylated and methacrylic acid	0.1 1 /0	H413
Acetic acid, 2-phenylhydrazide	0.1- 1 %	Acute toxicity 3; Oral
114-83-0	0.1- 1 /0	H301
114-05-0		Skin corrosion/irritation 2
		H315
		Serious eye damage/eye irritation 2A
		H319
		Skin sensitizer 1
		H317
		Carcinogenicity 2
		H351
methacrylic acid	0.1- 1 %	Flammable liquids 4
79-41-4		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
2,2'-Ethylenedioxydiethyl dimethacrylate	0.1- 1 %	Skin sensitizer 1B
109-16-0		H317
		Acute hazards to the aquatic environment 3
		H402
2-Propenoic acid, 2-methyl-, 2-(2-hydroxyethoxy)ethyl	0.1- 1 %	Serious eye damage/eye irritation 2B
ester		H320
2351-43-1	1	Skin sensitizer 1
2531-45-1		H317

Section 4. First aid measures

Inhalation:

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

Skin contact:

Rinse with running water and soap.

Seek medical advice.

Eye contact:

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

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Ingestion:

Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting.

Seek medical advice.

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

Fine water spray

Specific hazards arising from the chemical:

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

Special protection equipment and precautions for firefighters:

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

Additional fire fighting advice:

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

Section 6. Accidental release measures

Personal precautions:

Ensure adequate ventilation.

Avoid contact with skin and eyes.

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 with adequate ventilation.

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

Avoid skin and eye contact.

See advice in section 8

Storage:

Ensure good ventilation/extraction.

Store at room temperature.

Refer to Technical Data Sheet

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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):	
	ppm	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:

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.

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.

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pH: No data available.Melting point / freezing point: No data available.

Specific gravity: 1.1

Boiling point: > 148 °C (> 298.4 °F)
Flash point: 93.3 °C (199.94 °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: < 5 mm hg

(; 26 °C (78.8 °F))

Vapor density:No data available.Density:1.1 g/cm3Solubility:InsolublePartition coefficient: n-No data available.

octanol/water:

Auto ignition: Not available.

Decomposition temperature: No data available.

Viscosity: 450 - 550 mPa.s

(; Method: no method)

VOC content: < 3 %

(2010/75/EC)

Section 10. Stability and reactivity

Reactivity/Incompatible materials:

Peroxides.

Chemical stability:

Stable under recommended storage conditions.

Conditions to avoid:

Stable under normal conditions of storage and use.

Hazardous decomposition products:

carbon oxides.

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: Skin irritation.

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Health Effects:

Ingestion: May cause gastrointestinal tract irritation if swallowed.

Skin:May cause skin sensitization.Eyes:Causes serious eye damage.Inhalation:May cause respiratory irritation.

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

SKIN: Redness, inflammation.

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

SKIN: Rash, Urticaria.

Acute oral toxicity:

Reaction mass of (1-	Value type	LD50
methylethylidene)bis(4,1-	Value	> 35,000 mg/kg
phenyleneoxy-2,1-ethanediyl)	Species	rat
bismethacrylate and 2-{4-[2-(4-{2-	Method	not specified
[2-(methacryloyloxy)etho		
2.2.5 Trimothylavalahavvl	Value tyme	LD0
3,3,5 Trimethylcyclohexyl methacrylate	Value type Value	
7779-31-9		> 5,000 mg/kg
7779-31-9	Species Method	rat OFCD Crid-line 401 (A rets Oral Tarricity)
2.2.5.T		OECD Guideline 401 (Acute Oral Toxicity)
3,3,5 Trimethylcyclohexyl methacrylate	Value type	LD50
7779-31-9	Value	> 5,000 mg/kg
7779-31-9	Species Method	rat OECD Guideline 401 (Acute Oral Toxicity)
277.1		
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
Reaction products of 4,4'-	Value type	LD50
isopropylidenediphenol,	Value	> 2,000 mg/kg
ethoxylated and methacrylic acid	Species	rat
, , , , , , , , , , , , , , , , , , ,	Method	OECD Guideline 423 (Acute Oral toxicity)
Acetic acid, 2-phenylhydrazide	Value type	LD50
114-83-0	Value	270 mg/kg
	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)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	Value type	LD50
	Value	10,837 mg/kg
	Species	rat
	Method	not specified
2 Dromanaia asid 2		
2-Propenoic acid, 2-methyl-, 2-(2-	Value type	LD50
hydroxyethoxy)ethyl ester 2351-43-1	Value	5,564 mg/kg
	Species	rat EDA Cuideline
	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
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
2,2'-Ethylenedioxydiethyl	Value type	Acute toxicity estimate (ATE)
dimethacrylate	Value	28.17 mg/l
109-16-0	Exposure time	
	Species	
	Method	Expert judgement

Acute dermal toxicity:

Reaction mass of (1-	Value type	LD50
methylethylidene)bis(4,1-	Value	> 2,000 mg/kg
phenyleneoxy-2,1-ethanediyl)	Species	rat
bismethacrylate and 2-{4-[2-(4-{2-	Method	OECD Guideline 402 (Acute Dermal Toxicity)
[2-(methacryloyloxy)etho		
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
Acrylic acid	Value type	LD50
79-10-7	Value	> 2,000 mg/kg
	Species	rabbit
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
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
Reaction products of 4,4'-	Value type	LD50
isopropylidenediphenol,	Value	> 2,000 mg/kg
ethoxylated and methacrylic acid	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
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
2,2'-Ethylenedioxydiethyl	Value type	Acute toxicity estimate (ATE)
dimethacrylate	Value	> 5,000 mg/kg
109-16-0	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:

Reaction mass of (1-	Result	not irritating
methylethylidene)bis(4,1-phenyleneoxy-	Exposure time	24 h
2,1-ethanediyl) bismethacrylate and 2-	Species	rabbit
{4-[2-(4-{2-[2-(methacryloyloxy)etho	Method	not specified
2-Hydroxyethyl methacrylate	Result	slightly irritating
868-77-9	Exposure time	24 h
	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)
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
Reaction products of 4,4'-	Result	not irritating
isopropylidenediphenol, ethoxylated and	Exposure time	15 min
methacrylic acid	Species	Human, EpiSkinTM (SM), Reconstructed Human Epidermis (RHE)
	Method	OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method)
methacrylic acid	Result	corrosive
79-41-4	Exposure time	3 min
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2,2'-Ethylenedioxydiethyl dimethacrylate	Result	not irritating
109-16-0	Exposure time	24 h
	Species	rabbit

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	Method	Draize Test
2-Propenoic acid, 2-methyl-, 2-(2-	Result	not irritating
hydroxyethoxy)ethyl ester	Exposure time	24 h
2351-43-1	Species	rabbit
	Method	Draize Test

Serious eye damage/irritation:

Reaction mass of (1-	Result	not irritating
methylethylidene)bis(4,1-phenyleneoxy-	Exposure time	
2,1-ethanediyl) bismethacrylate and 2-	Species	rabbit
{4-[2-(4-{2-[2-(methacryloyloxy)etho	Method	not specified
2-Hydroxyethyl methacrylate	Result	Category 2B (mildly irritating to eyes)
868-77-9	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)
Reaction products of 4,4'-	Result	not irritating
isopropylidenediphenol, ethoxylated and	Exposure time	
methacrylic acid	Species	Bovine, cornea, in vitro test
	Method	OECD Guideline 437 (BCOP)
methacrylic acid	Result	corrosive
79-41-4	Exposure time	
	Species	rabbit
	Method	Draize Test
2,2'-Ethylenedioxydiethyl dimethacrylate	Result	not irritating
109-16-0	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
2-Propenoic acid, 2-methyl-, 2-(2-	Result	irritating
hydroxyethoxy)ethyl ester	Exposure time	
2351-43-1	Species	rabbit

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${\bf Respiratory\ or\ skin\ sensitization:}$

Reaction mass of (1-	Result	not sensitising
methylethylidene)bis(4,1-	Test type	Mouse local lymphnode assay (LLNA)
phenyleneoxy-2,1-ethanediyl)	Species	mouse
bismethacrylate and 2-{4-[2-(4-{2- [2-(methacryloyloxy)etho	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
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
000 77 9	Species	guinea pig
	Method	Magnusson and Kligman Method
Acrylic acid	Result	not sensitising
79-10-7	Test type	Freund's complete adjuvant test
77 10 7	Species	guinea pig
	Method	Klecak Method
Acrylic acid	Result	not sensitising
79-10-7		Split adjuvant test
79-10-7	Test type Species	guinea pig
	Method	Maguire Method
M. d. 12 2.1 2.21		
Methacrylic acid, monoester with propane-1,2-diol	Result	not sensitising
27813-02-1	Test type	Mouse local lymphnode assay (LLNA)
27813-02-1	Species	mouse equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local
	Method	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
27013 02 1	Method	
1.1		not specified
maleic acid 110-16-7	Result	sensitising
110-10-7	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse OECD Cridalina 420 (Chin Carristiantian Land Lawrel Nata Assay)
1	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
maleic acid	Result	sensitising
110-16-7	Test type	Mouse local lymphnode assay (LLNA)
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
Reaction products of 4,4'-	Result	not sensitising
isopropylidenediphenol,	Test type	Mouse local lymphnode assay (LLNA)
ethoxylated and methacrylic acid	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
methacrylic acid 79-41-4	Result	not sensitising
	Test type	Buehler test
	Species	guinea pig
	Method	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
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)

LOCTITE 648 RC known as Loctite 648 RC BO50ML EN/CH/JP

Germ cell mutagenicity:

Reaction mass of (1-	Result	negative
methylethylidene)bis(4,1-	Type of study / Route of administration	mammalian cell gene mutation assay
phenyleneoxy-2,1-ethanediyl)	Metabolic activation / Exposure time	with and without
bismethacrylate and 2-{4-[2-(4-	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene
{2-[2-(methacryloyloxy)etho		Mutation Test)
Reaction mass of (1-	Result	negative
methylethylidene)bis(4,1-	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
phenyleneoxy-2,1-ethanediyl)	Metabolic activation / Exposure time	with and without
bismethacrylate and 2-{4-[2-(4-	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
{2-[2-(methacryloyloxy)etho	Modified	OLED Guideline 1/1 (Bucterial Neverse Mutation Missay)
Reaction mass of (1-	Result	negative
methylethylidene)bis(4,1-	Type of study / Route of administration	in vitro mammalian cell micronucleus test
phenyleneoxy-2,1-ethanediyl)	Metabolic activation / Exposure time	with and without
bismethacrylate and 2-{4-[2-(4-	Method	OECD Guideline 487 (In vitro Mammalian Cell
{2-[2-(methacryloyloxy)etho	Method	Micronucleus Test)
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
000 77 9	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 473 (In vitro Mammalian Chromosome
	Wethod	Aberration Test)
2-Hydroxyethyl methacrylate	Result	negative
868-77-9	Type of study / Route of administration	mammalian cell gene mutation assay
000 77 9	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene
	Wethou	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	D 17 1
	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
A 1' '1	D. It	Reverse Mutation Assay)
Acrylic acid	Result	negative
79-10-7	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 476 (In vitro 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
12 10 1	Type of study / Route of administration	synthesis in mammalian cells in vitro
	Metabolic activation / Exposure time	without
	Method	equivalent or similar to OECD Guideline 482 (Genetic
		Toxicology: DNA Damage and Repair, Unscheduled
		DNA Synthesis in Mammalian Cells
Acrylic acid	Result	negative
79-10-7	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
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Reaction products of 4,4'- isopropylidenediphenol, ethoxylated and methacrylic acid methacrylic acid Method		Method	`
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ethoxylated and methacrylic acid Method Method Method Method Method Method Micronucleus Test) methacrylic acid 79-41-4 Method M			<u> </u>
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methacrylic acid 79-41-4 Result Type of study / Route of administration Metabolic activation / Exposure time Method Result negative bacterial reverse mutation assay (e.g Ames test) with and without equivalent or similar to OECD Guideline 471 (Bacterial		Method	· ·
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			· · · · · · · · · · · · · · · · · · ·
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	methacrylic acid	Result	negative
Metabolic activation / Exposure time with and without Method equivalent or similar to OECD Guideline 471 (Bacterial	79-41-4	Type of study / Route of administration	
Method equivalent or similar to OECD Guideline 471 (Bacterial			with and without
			equivalent or similar to OECD Guideline 471 (Bacterial

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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)
2,2'-Ethylenedioxydiethyl	Result	negative
dimethacrylate	Type of study / Route of administration	mammalian cell gene mutation assay
109-16-0	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
2,2'-Ethylenedioxydiethyl	Result	negative
dimethacrylate	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
109-16-0	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2,2'-Ethylenedioxydiethyl	Result	negative
dimethacrylate	Type of study / Route of administration	in vitro mammalian cell micronucleus test
109-16-0	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)

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Repeated dose toxicity:

Reaction mass of (1-	Result	NOAEL=1,000 mg/kg
methylethylidene)bis(4,1-	Route of application	oral: gavage
phenyleneoxy-2,1-ethanediyl)	Exposure time / Frequency of treatment	13 weeksdaily
bismethacrylate and 2-{4-[2-(4-	Species	rat
{2-[2-(methacryloyloxy)etho	Method	OECD Guideline 408 (Repeated Dose 90-Day Oral
		Toxicity in Rodents)
3,3,5 Trimethylcyclohexyl	Result	NOAEL=1,000 mg/kg
methacrylate	Route of application	oral: gavage
7779-31-9	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
	Wichiod	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-
	Wichiod	Day)
α, α-dimethylbenzyl	Result	Dujj
hydroperoxide	Route of application	inhalation: aerosol
80-15-9	Exposure time / Frequency of treatment	6 h/d5 d/w
00 13 7	Species	rat
	Method	not specified
malaia aaid		
maleic acid 110-16-7	Result Route of application	NOAEL=>= 40 mg/kg oral: feed
110-10-/		
	Exposure time / Frequency of treatment	90 ddaily
	Species	rat
	Method	OECD Guideline 408 (Repeated Dose 90-Day Oral
D 4 1 . 64.41	D 1	Toxicity in Rodents)
Reaction products of 4,4'-	Result	NOAEL=1,000 mg/kg
isopropylidenediphenol,	Route of application	oral: gavage
ethoxylated and methacrylic acid		13 weeksdaily
	Species	rat
	Method	OECD Guideline 408 (Repeated Dose 90-Day Oral

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		Toxicity in Rodents)
methacrylic acid	Result	
79-41-4	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)
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)

Section 12. Ecological information

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

Ecotoxicity: Harmful to aquatic life with long lasting effects.

Toxicity:

Reaction mass of (1-	Value type	LL50
methylethylidene)bis(4,1-	Value	Toxicity > Water solubility
phenyleneoxy-2,1-ethanediyl)	Acute Toxicity Study	Fish
bismethacrylate and 2-{4-[2-(4-{2-	Exposure time	96 h
[2-(methacryloyloxy)etho	Species	Danio rerio
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
	Value type	NOEC
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Fish
	Exposure time	34 d
	Species	Danio rerio
	Method	OECD Guideline 210 (fish early lite stage toxicity test)
Reaction mass of (1-	Value type	EL50
methylethylidene)bis(4,1-	Value	Toxicity > Water solubility
phenyleneoxy-2,1-ethanediyl)	Acute Toxicity Study	Daphnia
bismethacrylate and 2-{4-[2-(4-{2-	Exposure time	48 h
[2-(methacryloyloxy)etho	Species	Daphnia magna
E (y .y . y/	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Reaction mass of (1-	Value type	EL50
methylethylidene)bis(4,1-	Value	Toxicity > Water solubility
phenyleneoxy-2,1-ethanediyl)	Acute Toxicity Study	Algae
bismethacrylate and 2-{4-[2-(4-{2-	Exposure time	72 h
[2-(methacryloyloxy)etho	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Reaction mass of (1-	Value type	EC50
methylethylidene)bis(4,1-	Value	Toxicity > Water solubility
phenyleneoxy-2,1-ethanediyl)	Acute Toxicity Study	Bacteria Bacteria
bismethacrylate and 2-{4-[2-(4-{2-	Exposure time	3 h
[2-(methacryloyloxy)etho	Species	activated sludge of a predominantly domestic sewage
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
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)
2.2.5 Trim athylogoloh avyl		EC10
5.5.3 I (Imethylcyclonexy)	Value type	
3,3,5 Trimethylcyclohexyl methacrylate	Value type Value	
methacrylate 7779-31-9	Value type Value Acute Toxicity Study	0.43 mg/l Algae

	Species Method	Pseudokirchneriella subcapitata 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
	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
	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-Hydroxyethyl methacrylate	Value type	EC0
868-77-9	Value	> 3,000 mg/l
000-77-9	Acute Toxicity Study	Bacteria
	Exposure time	16 h
	Species	Pseudomonas fluorescens
	Method	other guideline:
A 1' '1		
Acrylic acid 79-10-7	Value type	LC50
/9-10-/	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	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test,
4 11 11	77.1	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	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Method	EU Method C.3 (Algal Inhibition test)
Acrylic acid	Value type	EC20
79-10-7	Value	900 mg/l
	Acute Toxicity Study	Bacteria
		I a a c c c c c c c c c c c c c c c c c
	Exposure time	30 min

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	Method	ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated
Methacrylic acid, monoester with	Volue type	Sludge) LC50
propane-1,2-diol	Value type Value	493 mg/l
27813-02-1	Acute Toxicity Study	Fish
27013-02-1	Exposure time	48 h
	Species Species	Leuciscus idus melanotus
	Method	DIN 38412-15
Methacrylic acid, monoester with	Value type	EC50
propane-1,2-diol	Value	> 143 mg/l
27813-02-1	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	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
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Methacrylic acid, monoester with	Value type	EC10
propane-1,2-diol	Value	1,140 mg/l
27813-02-1	Acute Toxicity Study	Bacteria
	Exposure time	16 h
	Species	
_	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		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	Method Value type	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50
α , α -dimethylbenzyl hydroperoxide 80-15-9	Method Value type Value	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 3.1 mg/l
	Method Value type Value Acute Toxicity Study	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 3.1 mg/l Algae
	Method Value type Value Acute Toxicity Study Exposure time	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 3.1 mg/l Algae 72 h
	Method Value type Value Acute Toxicity Study Exposure time Species	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 3.1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus)
	Method Value type Value Acute Toxicity Study Exposure time Species Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 3.1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test)
	Method Value type Value Acute Toxicity Study Exposure time Species Method Value type	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 3.1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC
	Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 3.1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 1 mg/l
	Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 3.1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 1 mg/l Algae
	Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 3.1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 1 mg/l Algae 72 h
	Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Acute Toxicity Study Exposure time Species	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 3.1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus)
80-15-9	Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Exposure time Species Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 3.1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test)
α, α -dimethylbenzyl hydroperoxide	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	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 3.1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) EC10
80-15-9	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	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 3.1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) EC10 70 mg/l
α , α -dimethylbenzyl hydroperoxide	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	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 3.1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) EC10 70 mg/l Bacteria
α , α -dimethylbenzyl hydroperoxide	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 Exposure time Acute Toxicity Study Exposure time	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 3.1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) EC10 70 mg/l Bacteria 30 min
80-15-9 α, α -dimethylbenzyl hydroperoxide	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	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 3.1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) EC10 70 mg/l Bacteria 30 min not specified
α, α-dimethylbenzyl hydroperoxide 80-15-9	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 Exposure time Species Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 3.1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) EC10 70 mg/l Bacteria 30 min not specified
α , α -dimethylbenzyl hydroperoxide 80-15-9	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	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 3.1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) EC10 70 mg/l Bacteria 30 min not specified not specified LC50
α, α-dimethylbenzyl hydroperoxide 80-15-9	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	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 3.1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) EC10 70 mg/l Bacteria 30 min not specified not specified LC50 > 245 mg/l
α , α -dimethylbenzyl hydroperoxide 80-15-9	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 Value type Value Acute Toxicity Study	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 3.1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) EC10 70 mg/l Bacteria 30 min not specified not specified LC50 > 245 mg/l Fish
α , α -dimethylbenzyl hydroperoxide 80-15-9	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	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 3.1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) EC10 70 mg/l Bacteria 30 min not specified not specified LC50 > 245 mg/l Fish 48 h
α, α -dimethylbenzyl hydroperoxide 80-15-9	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 Value type Value Acute Toxicity Study	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC50 3.1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 1 mg/l Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) EC10 70 mg/l Bacteria 30 min not specified not specified LC50 > 245 mg/l Fish

malaia aaid	Value type	EC50
maleic acid 110-16-7		
	Value	42.81 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	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
		Pseudokirchneriella subcapitata
	Species	
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	EC10
	Value	11.8 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
maleic acid	Value type	EC10
110-16-7	Value	
110-10-7		44.6 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	18 h
	Species	Pseudomonas putida
	Method	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
Reaction products of 4,4'-	Value type	LL50
isopropylidenediphenol,	Value	Toxicity > Water solubility
ethoxylated and methacrylic acid	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Reaction products of 4,4'-	Value type	EL50
isopropylidenediphenol,	Value	Toxicity > Water solubility
ethoxylated and methacrylic acid	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Reaction products of 4,4'-	Value type	EL50
isopropylidenediphenol,	Value	Toxicity > Water solubility
ethoxylated and methacrylic acid	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	EL10
	Value	Toxicity > Water solubility
	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)
methacrylic acid	Value type	EC50
79-41-4		
/7-41-4	Value	> 130 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)
methacrylic acid	Value type	NOEC
79-41-4	Value	8.2 mg/l
1,7.71.77		Algae
	Acute Toxicity Study	
	Acute Toxicity Study	
	Exposure time	72 h
	Exposure time Species	72 h Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	Exposure time Species Method	72 h
	Exposure time Species	72 h Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	Exposure time Species Method	72 h Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test)

	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	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	
	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	> 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)

Persistence and degradability:

Reaction mass of (1-	Result	not readily biodegradable.
methylethylidene)bis(4,1-	Route of application	aerobic
phenyleneoxy-2,1-ethanediyl)	Degradability	> 19.9 - 41.3 %
bismethacrylate and 2-{4-[2-(4-	Method	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry
{2-[2-(methacryloyloxy)etho		Test)
	Result	inherently biodegradable
	Route of application	aerobic
	Degradability	> 52.2 - 65.5 %
	Method	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry
		Test)
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
	Titolii ou	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)
Reaction products of 4,4'-	Result	not readily biodegradable.
isopropylidenediphenol,	Route of application	aerobic
ethoxylated and methacrylic acid	Degradability	43 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
	Result	inherently biodegradable
	Route of application	aerobic
	Degradability	66 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
methacrylic acid	Result	inherently biodegradable
79-41-4	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	86 %
	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)
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:

Reaction mass of (1-	LogPow	> 6.2
methylethylidene)bis(4,1-	Temperature	
phenyleneoxy-2,1-ethanediyl)	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC
bismethacrylate and 2-{4-[2-(4-		Method)
{2-[2-(methacryloyloxy)etho		
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	LogPow	5.25
	Temperature	20 °C
	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC
		Method)
2-Hydroxyethyl methacrylate 868-77-9	LogPow	0.42
	Temperature	25 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake
		Flask Method)
Acrylic acid 79-10-7	Bioconcentration factor (BCF)	3.16
	Exposure time	
	Species	
	Temperature	
	Method	QSAR (Quantitative Structure Activity Relationship)
Acrylic acid 79-10-7	LogPow	0.46
	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 80-15-9	Exposure time	
	Species	calculation
	Temperature	
	Method	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	LogPow	1.6
	Temperature	25 °C
	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC
		Method)
maleic acid 110-16-7	LogPow	-1.3
	Temperature	20 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake
		Flask Method)

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Reaction products of 4,4'-	LogPow	> 5.3 - 5.62
isopropylidenediphenol,	Temperature	
ethoxylated and methacrylic acid	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC
		Method)
Acetic acid, 2-phenylhydrazide 114-83-0	LogPow	0.74
	Temperature	
	Method	not specified
methacrylic acid 79-41-4	LogPow	0.93
	Temperature	22 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake
		Flask Method)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	LogPow	2.3
	Temperature	
	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC
		Method)

Section 13. Disposal considerations

Product

Method of disposal:

Dispose of in accordance with local and national regulations.

Contribution of this product to waste is very insignificant in comparison to article in which it is used

Packaging

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

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

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EN/CH/JP

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
NZIOC 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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