

Safety Data Sheet

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SDS No.: 168434

V001.12

Revision: 23.11.2023 printing date: 13.09.2024

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

Product name:

LOCTITE AA 326 50ML EN/CH/JP/KR

LOCTITE AA 326 50ML EN/CH/JP/KR

Other means of identification:

LOCTITE AA 326 50ML EN/CH/JP/KR

Product code:

IDH231560

Recommended use of the chemical and restrictions on use

Intended use:

Acrylic Adhesive

Manufacturer/Importer/Distributor Representative Company

Henkel Thailand Ltd. The Offices at Centralworld,

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

10330 Bangkok

Thailand

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

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

ap-ua-psra.sea@henkel.com

Emergency Telephone for Chemical Accidents:

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

Section 2. Hazards identification

GHS Classification:

<u>Hazard Class</u> <u>Hazard Category</u> <u>Target organ</u>

Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Skin sensitizer Category 1
Specific terrest organ toxicity.

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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Signal word:

Warning

Hazard statement:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

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.

P337+P313 If eye irritation persists: 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

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Substance or Mixture:

Mixture

Declaration of hazardous chemical:

Hazard component CAS-No.	Content	GHS Classification
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
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl	10- 30 %	H317 Acute toxicity 5; Oral
methacrylate		H303
7534-94-3		Skin corrosion/irritation 3 H316
		Acute hazards to the aquatic environment 2 H401
		Chronic hazards to the aquatic environment 3 H412
Methacrylic acid, monoester with propane-1,2-diol 27813-02-1	1- 10 %	Serious eye damage/eye irritation 2B H320
27010 02 1		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
α, α-dimethylbenzyl hydroperoxide 80-15-9	0.1- 1 %	Flammable liquids 4 H227
00137		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
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

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		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 3; Oral H301 Skin corrosion/irritation 2 H315 Serious eye damage/eye irritation 2A H319 Skin sensitizer 1 H317 Carcinogenicity 2 H351
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. If symptoms persist, seek medical advice.

Skin contact:

Rinse with running water and soap.

Obtain medical attention if irritation persists.

Eve contact

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

Ingestion

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

Indication of immediate medical attention and special treatment needed:

See section: Description of first aid measures

Section 5. Fire fighting measures

Suitable extinguishing media:

Carbon dioxide, foam, powder

Improper extinguishing media:

High pressure waterjet

Specific hazards arising from the chemical:

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

Special protection equipment and precautions for firefighters:

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

Hazardous combustion products:

Sulphur oxides

Irritating organic vapours.

Additional fire fighting advice:

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

Section 6. Accidental release measures

Personal precautions:

Avoid skin and eye contact.

Ensure adequate ventilation.

Wear protective equipment.

See advice in section 8

Environmental precautions:

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

Clean-up methods:

For small spills wipe up with paper towel and place in container for disposal.

For large spills absorb onto inert absorbent material and place in sealed container for disposal.

Dispose of contaminated material as waste according to Section 13.

Section 7. Handling and storage

Handling:

Use only with adequate ventilation.

Avoid skin and eye contact.

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

See advice in section 8

Storage:

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):	
	ppm	2	
	Remarks	TH OEL	
ACRYLIC ACID 79-10-7	Value type	Skin designation:	
	Remarks	ACGIH Danger of cutaneous absorption	
METHACRYLIC ACID Value type 79-41-4		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; \geq = 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

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.

Section 9. Physical and chemical properties

Appearance: amber liquid Odor: acrylic

Odor threshold (CA): No data available.

pH: Not applicable, Product is non-soluble (in water).

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

Specific gravity: 1.1

Boiling point: > 149 °C (> 300.2 °F) **Flash point:** > 93.3 °C (> 199.94 °F)

(Tagliabue closed cup)

Evaporation rate: No data available. Flammability (solid, gas): No data available.

Lower explosive limit: 2 %(V)

(Acrylic Acid)

Upper explosive limit: 8%(V)

(Acrylic Acid) < 10 mm hg

Vapor pressure: < 10 mm l (; 27 °C (80.6 °F); 20 °C (68 °F)) < 1.3 kPa

Vapor density: Heavier than air **Density:** 1.0 g/cm3

Solubility: Slightly soluble (20 °C)

Partition coefficient: n-

octanol/water:

No data available.

Auto ignition:Not available.Decomposition temperature:No data available.Viscosity:No data available.

VOC content: < 3.00 %

(2010/75/EC)

Section 10. Stability and reactivity

Reactivity/Incompatible materials:

Reaction with strong acids. Reacts with strong oxidants.

Chemical stability:

Stable under recommended storage conditions.

Conditions to avoid:

Stable under normal conditions of storage and use.

Hazardous decomposition products:

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

Symptoms of Overexposure: SKIN: Rash, Urticaria.

SKIN: Redness, inflammation.

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

EYE: Irritation, conjunctivitis.

Acute oral toxicity:

2-Hydroxyethyl methacrylate	Value type	LD50
868-77-9	Value	5,564 mg/kg
	Species	rat
	Method	FDA Guideline
exo-1,7,7-	Value type	LD50
trimethylbicyclo[2.2.1]hept-2-yl	Value	3,160 mg/kg
methacrylate	Species	rat
7534-94-3	Method	not specified
Methacrylic acid, monoester with	Value type	LD50
propane-1,2-diol	Value	> 2,000 mg/kg
27813-02-1	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
Acrylic acid	Value type	LD50
79-10-7	Value	1,500 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
α, α-dimethylbenzyl hydroperoxide	Value type	LD50
80-15-9	Value	382 mg/kg
	Species	rat
	Method	other guideline:
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)
Acetic acid, 2-phenylhydrazide	Value type	LD50
114-83-0	Value	270 mg/kg
	Species	rat
	Method	not specified
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

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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

Acute dermal toxicity:

2-Hydroxyethyl methacrylate	Value type	LD50
868-77-9	Value	> 5,000 mg/kg
	Species	rabbit
	Method	not specified
exo-1,7,7-	Value type	LD50
trimethylbicyclo[2.2.1]hept-2-yl	Value	> 3,000 mg/kg
methacrylate	Species	rabbit
7534-94-3	Method	not specified
Methacrylic acid, monoester with	Value type	LD50
propane-1,2-diol	Value	> 5,000 mg/kg
27813-02-1	Species	rabbit
	Method	not specified
Acrylic acid	Value type	Acute toxicity estimate (ATE)
79-10-7	Value	1,100 mg/kg
	Species	
	Method	Expert judgement
α, α-dimethylbenzyl hydroperoxide	Value type	Acute toxicity estimate (ATE)
80-15-9	Value	1,100 mg/kg
	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
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-	Result	mildly irritating
yl methacrylate	Exposure time	
7534-94-3	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
Acrylic acid	Result	Category 1 (corrosive)
79-10-7	Exposure time	3 min
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
α, α-dimethylbenzyl hydroperoxide	Result	corrosive
80-15-9	Exposure time	
	Species	rabbit
	Method	Draize Test
methacrylic acid	Result	corrosive
79-41-4	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
	Method	Draize Test

Serious eye damage/irritation:

2-Hydroxyethyl methacrylate	Result	Category 2B (mildly irritating to eyes)
868-77-9	Exposure time	
	Species	rabbit
	Method	Draize Test
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-	Result	not irritating
yl methacrylate	Exposure time	
7534-94-3	Species	rabbit
	Method	FDA Guideline
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-	Result	slightly irritating
yl methacrylate	Exposure time	
7534-94-3	Species	rabbit
	Method	Draize 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
Acrylic acid	Result	Category 1 (irreversible effects on the eye)
79-10-7	Exposure time	
	Species	rabbit
	Method	BASF Test
methacrylic acid	Result	corrosive
79-41-4	Exposure time	
	Species	rabbit
	Method	Draize Test
2-Propenoic acid, 2-methyl-, 2-(2-	Result	irritating
hydroxyethoxy)ethyl ester	Exposure time	
2351-43-1	Species	rabbit
	Method	Draize Test

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Respiratory or skin sensitization:

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	
exo-1,7,7-	Result	not sensitising	
trimethylbicyclo[2.2.1]hept-2-yl	Test type	Guinea pig maximisation test	
methacrylate	Species	guinea pig	
7534-94-3	Method	OECD Guideline 406 (Skin Sensitisation)	
Methacrylic acid, monoester with	Result	not sensitising	
propane-1,2-diol	Test type	Mouse local lymphnode assay (LLNA)	
27813-02-1	Species	mouse	
	Method	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local	
		Lymph Node Assay)	
Methacrylic acid, monoester with	Result	sensitising	
propane-1,2-diol	Test type	Guinea pig maximisation test	
27813-02-1	Species	guinea pig	
	Method	not specified	
Acrylic acid	Result	not sensitising	
79-10-7	Test type	Freund's complete adjuvant test	
	Species	guinea pig	
	Method	Klecak Method	
Acrylic acid	Result	not sensitising	
79-10-7	Test type	Split adjuvant test	
	Species	guinea pig	
	Method	Maguire Method	
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)	

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Germ cell mutagenicity:

71 Handmann 1 1 1 1 1 1 1	D14	
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
		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
		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
exo-1,7,7-	Result	negative
trimethylbicyclo[2.2.1]hept-2-yl	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
methacrylate	Metabolic activation / Exposure time	with and without
7534-94-3	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
exo-1,7,7-	Result	negative
trimethylbicyclo[2.2.1]hept-2-yl	Type of study / Route of administration	negative
methacrylate	Metabolic activation / Exposure time	with and without
7534-94-3	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene
7.55.7.5	Wethod	Mutation Test)
exo-1,7,7-	Result	negative
trimethylbicyclo[2.2.1]hept-2-yl	Type of study / Route of administration	in vitro mammalian chromosome aberration test
methacrylate	Metabolic activation / Exposure time	with and without
7534-94-3	Method	OECD Guideline 473 (In vitro Mammalian Chromosome
7331713	Wethod	Aberration Test)
Methacrylic acid, monoester	Result	negative
with propane-1,2-diol	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
27813-02-1	Metabolic activation / Exposure time	with and without
27013 02 1		
	I Mathod	I OECD Guideline 471 (Protorial Poverce Mutation Asset)
Mathamaticalidan	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Methacrylic acid, monoester	Result	positive
with propane-1,2-diol	Result Type of study / Route of administration	positive in vitro mammalian chromosome aberration test
3	Result Type of study / Route of administration Metabolic activation / Exposure time	positive in vitro mammalian chromosome aberration test with and without
with propane-1,2-diol 27813-02-1	Result Type of study / Route of administration Metabolic activation / Exposure time Method	positive in vitro mammalian chromosome aberration test with and without Chromosome Aberration Test
with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester	Result Type of study / Route of administration Metabolic activation / Exposure time Method Result	positive in vitro mammalian chromosome aberration test with and without Chromosome Aberration Test negative
with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol	Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration	positive in vitro mammalian chromosome aberration test with and without Chromosome Aberration Test negative mammalian cell gene mutation assay
with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester	Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time	positive in vitro mammalian chromosome aberration test with and without Chromosome Aberration Test negative mammalian cell gene mutation assay with and without
with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol	Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration	positive in vitro mammalian chromosome aberration test with and without Chromosome Aberration Test negative mammalian cell gene mutation assay with and without OECD Guideline 476 (In vitro Mammalian Cell Gene
with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1	Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method	positive in vitro mammalian chromosome aberration test with and without Chromosome Aberration Test negative mammalian cell gene mutation assay with and without OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester	Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result	positive in vitro mammalian chromosome aberration test with and without Chromosome Aberration Test negative mammalian cell gene mutation assay with and without OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) negative
with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol	Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration	positive in vitro mammalian chromosome aberration test with and without Chromosome Aberration Test negative mammalian cell gene mutation assay with and without OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester	Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method	positive in vitro mammalian chromosome aberration test with and without Chromosome Aberration Test negative mammalian cell gene mutation assay with and without OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) negative oral: gavage
with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol	Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Species	positive in vitro mammalian chromosome aberration test with and without Chromosome Aberration Test negative mammalian cell gene mutation assay with and without OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) negative oral: gavage mouse
with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol	Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method	positive in vitro mammalian chromosome aberration test with and without Chromosome Aberration Test negative mammalian cell gene mutation assay with and without OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) negative oral: gavage mouse OECD Guideline 474 (Mammalian Erythrocyte
with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1	Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method	positive in vitro mammalian chromosome aberration test with and without Chromosome Aberration Test negative mammalian cell gene mutation assay with and without OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) negative oral: gavage mouse OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
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with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol	Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration Metabolic activation / Exposure time Species	positive in vitro mammalian chromosome aberration test with and without Chromosome Aberration Test negative mammalian cell gene mutation assay with and without OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) negative oral: gavage mouse OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) negative oral: gavage Drosophila melanogaster
with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1	Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method	positive in vitro mammalian chromosome aberration test with and without Chromosome Aberration Test negative mammalian cell gene mutation assay with and without OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) negative oral: gavage mouse OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) negative oral: gavage Drosophila melanogaster not specified
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with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1	Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration 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 Result Type of study / Route of administration	positive in vitro mammalian chromosome aberration test with and without Chromosome Aberration Test negative mammalian cell gene mutation assay with and without OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) negative oral: gavage mouse OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) negative oral: gavage Drosophila melanogaster not specified negative bacterial reverse mutation assay (e.g Ames test)
with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 Acrylic acid	Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Result	positive in vitro mammalian chromosome aberration test with and without Chromosome Aberration Test negative mammalian cell gene mutation assay with and without OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) negative oral: gavage mouse OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) negative oral: gavage Drosophila melanogaster not specified negative bacterial reverse mutation assay (e.g Ames test) with and without
with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 Acrylic acid	Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration 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 Result Type of study / Route of administration	positive in vitro mammalian chromosome aberration test with and without Chromosome Aberration Test negative mammalian cell gene mutation assay with and without OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) negative oral: gavage mouse OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) negative oral: gavage Drosophila melanogaster not specified negative bacterial reverse mutation assay (e.g Ames test)

Result	negative
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)
Result	negative
Type of study / Route of administration	DNA damage and repair assay, unscheduled DNA 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
Result	negative
Type of study / Route of administration	oral: gavage
Metabolic activation / Exposure time	
Species	rat
Method	equivalent or similar to OECD Guideline 475
	(Mammalian Bone Marrow Chromosome Aberration Test
Result	negative
Type of study / Route of administration	oral: gavage
Species	mouse
Method	not specified
Result	positive
Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	without
Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Result	negative
Type of study / Route of administration	dermal
Metabolic activation / Exposure time	
Species	mouse
Method	not specified
	negative
	bacterial reverse mutation assay (e.g Ames test)
	with and without
	equivalent or similar to OECD Guideline 471 (Bacteria
	Reverse Mutation Assay)
Result	negative
	inhalation
Metabolic activation / Exposure time	
Species	mouse
Method	equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)
Result	negative
	oral: gavage
	mouse
	equivalent or similar to OECD Guideline 474
1,100100	(Mammalian Erythrocyte Micronucleus Test)
	Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration 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 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 Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Species Method

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LOCTITE AA 326 50ML EN/CH/JP/KR

Repeated dose toxicity:

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)
Methacrylic acid, monoester	Result	NOAEL=300 mg/kg
with propane-1,2-diol	Route of application	oral: gavage
27813-02-1	Exposure time / Frequency of treatment	49 ddaily
	Species	rat
	Method	OECD Guideline 422 (Combined Repeated Dose Toxicity
		Study with the Reproduction / Developmental Toxicity
		Screening Test)
Methacrylic acid, monoester	Result	NOAEL=0.352 mg/l
with propane-1,2-diol	Route of application	inhalation
27813-02-1	Exposure time / Frequency of treatment	90 d6 h/d, 5 d/w
	Species	rat
	Method	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-
		Day)
Acrylic acid	Result	NOAEL=40 mg/kg
79-10-7	Route of application	oral: drinking water
	Exposure time / Frequency of treatment	12 mdaily
	Species	rat
	Method	equivalent or similar to OECD Guideline 452 (Chronic
		Toxicity Studies)
Acrylic acid	Result	NOAEL=0.015 mg/l
79-10-7	Route of application	inhalation: vapour
	Exposure time / Frequency of treatment	90 d6 h/d, 5 d/w
	Species	mouse
	Method	equivalent or similar to OECD Guideline 413 (Subchronic
		Inhalation Toxicity: 90-Day)
α, α-dimethylbenzyl	Result	
hydroperoxide	Route of application	inhalation: aerosol
80-15-9	Exposure time / Frequency of treatment	6 h/d5 d/w
	Species	rat
	Method	not specified
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)

Section 12. Ecological information

 $\textbf{General ecological information:} \qquad \qquad \textbf{Do not empty into drains / surface water / ground water.}$

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

Toxicity:

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 Method	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) 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
	Acute Toxicity Study	Bacteria
	Exposure time	16 h
	Species	Pseudomonas fluorescens
	Method	other guideline:
exo-1,7,7-	Value type	LC50
trimethylbicyclo[2.2.1]hept-2-yl methacrylate	Value	1.79 mg/l
7534-94-3	Acute Toxicity Study Exposure time	Fish 96 h
1334 74 3	Species	Danio rerio
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
exo-1,7,7-	Value type	EC50
trimethylbicyclo[2.2.1]hept-2-yl	Value	> 2.57 mg/l
methacrylate	Acute Toxicity Study	Daphnia
7534-94-3	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
exo-1,7,7-	Value type	EC50
trimethylbicyclo[2.2.1]hept-2-yl	Value	2.66 mg/l
methacrylate	Acute Toxicity Study	Algae
7534-94-3	Exposure time	96 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type Value	NOEC 0.254 mg/l
	Acute Toxicity Study	0.254 mg/l Algae
	Exposure time	96 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Methacrylic acid, monoester with	Value type	LC50
propane-1,2-diol	Value	493 mg/l
27813-02-1	Acute Toxicity Study	Fish
	Exposure time	48 h
	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 Method	Daphnia magna OECD Cuideline 202 (Daphnia an Acute Immedilisation Test)
Mathagralia agid managatan mid-		OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Methacrylic acid, monoester with propane-1,2-diol	Value type Value	EC50 > 97.2 mg/l
27813-02-1	Acute Toxicity Study	> 97.2 mg/l Algae
27013 02-1	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC NOEC
	Value	> 97.2 mg/l
	1	

	Acute Toxicity Study	Algae
		Algae
	Exposure time Species	72 h Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
76.1		EC10
Methacrylic acid, monoester with	Value type	
propane-1,2-diol 27813-02-1	Value Acute Toxicity Study	1,140 mg/l
		Bacteria
	Exposure time	16 h
	Species	
A 11 11	Method	not specified LC50
Acrylic acid	Value type	
79-10-7	Value	27 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Salmo gairdneri (new name: Oncorhynchus mykiss)
	Method	EPA OTS 797.1400 (Fish Acute Toxicity Test)
	Value type	NOEC
	Value	>= 10.1 mg/l
	Acute Toxicity Study	Fish
	Exposure time	45 d
	Species	Oryzias latipes
	Method	OECD Guideline 210 (fish early lite stage toxicity test)
Acrylic acid	Value type	EC50
79-10-7	Value	95 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test,
		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
	Exposure time	30 min
	Species	activated sludge, domestic
	Method	ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated
	***	Sludge)
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
1' 4 11 11 1 '1	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
α , α -dimethylbenzyl hydroperoxide	Value type	EC50
80-15-9	Value	18.84 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
α, α-dimethylbenzyl hydroperoxide	Value type	EC50
		3.1 mg/l
80-15-9	Value	
	Acute Toxicity Study	Algae
	Acute Toxicity Study Exposure time	Algae 72 h
	Acute Toxicity Study Exposure time Species	Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus)
	Acute Toxicity Study Exposure time Species Method	Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test)
	Acute Toxicity Study Exposure time Species Method Value type	Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC
	Acute Toxicity Study Exposure time Species Method Value type Value	Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test)
	Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study	Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC
	Acute Toxicity Study Exposure time Species Method Value type Value	Algae 72 h Desmodesmus subspicatus (reported as Scenedesmus subspicatus) OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 1 mg/I

	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
α, $α$ -dimethylbenzyl hydroperoxide 80-15-9	Value type	EC10
	Value	70 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	30 min
	Species	not specified
	Method	not specified
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)
methacrylic acid	Value type	EC50
79-41-4	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
	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)
	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:

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))
exo-1,7,7-	Result	readily biodegradable
trimethylbicyclo[2.2.1]hept-2-yl	Route of application	aerobic
methacrylate	Degradability	70 %
7534-94-3	Method	OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels (Headspace Test)
Methacrylic acid, monoester	Result	readily biodegradable
with propane-1,2-diol	Route of application	aerobic
27813-02-1	Degradability	94.2 %
	Method	OECD Guideline 301 E (Ready biodegradability: Modified OECD
		Screening Test)
Acrylic acid	Result	inherently biodegradable
79-10-7	Route of application	aerobic
	Degradability	100 %
	Method	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA
		Test)
	Result	readily biodegradable
	Route of application	aerobic
	Degradability	81 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

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)
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 2351-43-1	Route of application	aerobic
	Degradability	92 - 100 %
	Method	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))

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

2-Hydroxyethyl methacrylate	LogPow	0.42
868-77-9	Temperature	25 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake
		Flask Method)
exo-1.7.7-	Bioconcentration factor (BCF)	37
trimethylbicyclo[2.2.1]hept-2-yl	Exposure time	56 day
methacrylate	Species	Danio rerio
7534-94-3	Temperature	24 °C
	Method	OECD Guideline 305 E (Bioaccumulation: Flow-through Fish Test)
exo-1.7.7-	LogPow	5.09
trimethylbicyclo[2.2.1]hept-2-yl	Temperature	
methacrylate	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC
7534-94-3		Method)
Methacrylic acid, monoester	LogPow	0.97
with propane-1,2-diol	Temperature	20 °C
27813-02-1	Method	not specified
Acrylic acid	Bioconcentration factor (BCF)	3.16
79-10-7	Exposure time	
	Species	
	Temperature	
	Method	QSAR (Quantitative Structure Activity Relationship)
Acrylic acid	LogPow	0.46
79-10-7	Temperature	25 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake
		Flask Method)
α, α-dimethylbenzyl	Bioconcentration factor (BCF)	9.1
hydroperoxide	Exposure time	
80-15-9	Species	calculation
	Temperature	
	Method	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	LogPow	1.6
	Temperature	25 °C
	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC
		Method)
methacrylic acid 79-41-4	LogPow	0.93
	Temperature	22 °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	not specified

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Section 13. Disposal considerations

Product

Method of disposal:

Dispose of in accordance with local and national regulations.

Packaging

Disposal of uncleaned packages:

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

Section 14. Transport information

Road transport ADR:

Not dangerous goods

Railroad transport RID:

Not dangerous goods

Inland water transport ADN:

Not dangerous goods

Marine transport IMDG:

Not dangerous goods

Air transport IATA:

Not dangerous goods

Section 15. Regulatory information

Regulatory Information:

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

Global inventory status:

Notification Regulatory list **TSCA NZIOC** 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

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