

Safety Data Sheet

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SDS No.: 153466

V002.9

Revision: 18.08.2023 printing date: 13.09.2024

respiratory tract irritation

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

Product name:

LOCTITE 515 TB50ML EN/CH/JP/KR

LOCTITE 515 TB50ML EN/CH/JP/KR

Other means of identification:

LOCTITE 515 TB50ML EN/CH/JP/KR

Product code:

IDH231695

Recommended use of the chemical and restrictions on use

Intended use:

Anaerobic Adhesive

Manufacturer/Importer/Distributor Representative Company

Henkel Thailand Ltd. The Offices at Centralworld,

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

10330 Bangkok

Thailand

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

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

ap-ua-psra.sea@henkel.com

Emergency Telephone for Chemical Accidents:

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

Section 2. Hazards identification

GHS Classification:

Hazard Class Hazard Category Target organ

Skin corrosion/irritation Category 2 Category 2A Serious eye damage/eye irritation Category 3

Specific target organ toxicity -

single exposure

Category 3 Chronic hazards to the aquatic

environment

GHS label elements:

Hazard pictogram:

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Signal word:

Warning

Hazard statement:

H315 Causes skin irritation.

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.

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.

P332+P313 If skin irritation 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
Silica, amorphous, fumed, crystfree 112945-52-5	1- 10 %	
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
		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	1- 10 %	Flammable liquids 4 H227
00 15 7		Organic peroxides E
		H242 Acute toxicity 4; Oral
		H302
		Acute toxicity 2; Inhalation H330
		Acute toxicity 4; Dermal H312
		Skin corrosion/irritation 1
		H314 Specific target organ toxicity - single exposure 3
		H335
		Specific target organ toxicity - repeated exposure 2 H373
		Acute hazards to the aquatic environment 2 H401
		Chronic hazards to the aquatic environment 2 H411
2-Hydroxyethyl methacrylate 868-77-9	0.1- 1 %	Skin corrosion/irritation 2 H315
808-77-9		Serious eye damage/eye irritation 2A
		H319 Skin sensitizer 1
		H317
Acetic acid, 2-phenylhydrazide 114-83-0	0.1- 1 %	Acute toxicity 3; Oral H301
114-03-0		Skin corrosion/irritation 2
		H315 Serious eye damage/eye irritation 2A
		H319 Skin sensitizer 1
		H317
		Carcinogenicity 2 H351
methacrylic acid 79-41-4	0.1- 1 %	Flammable liquids 4 H227
// 14		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
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Section 4. First aid measures

Inhalation:

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

Skin contact:

Rinse with running water and soap.

Obtain medical attention if irritation persists.

Eye contact:

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

Ingestion:

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

Indication of immediate medical attention and special treatment needed:

See section: Description of first aid measures

Section 5. Fire fighting measures

Suitable extinguishing media:

Carbon dioxide, foam, powder

Specific hazards arising from the chemical:

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

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:

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.

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

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

Dispose of contaminated material as waste according to Section 13.

Section 7. Handling and storage

Handling:

Use only in well-ventilated areas.

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:

Store in original containers at 8-21°C (46.4-69.8°F) and do not return residual materials to containers as contamination may reduce the shelf life of the bulk product.

Refer to Technical Data Sheet

Store at room temperature.

Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

Particles (insoluble or poorly soluble) not otherwise specified, respirable particles 112945-52-5	Value type	Time Weighted Average (TWA):
	mg/m ³	3
	Remarks	ACGIH
Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles 112945-52-5	Value type	Time Weighted Average (TWA):
	mg/m ³	10
	Remarks	ACGIH
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:

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.

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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: purple

liquid, opaque

Odor: Sharp

Odor threshold (CA): No data available.

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

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

Specific gravity:

Boiling point: > 150 °C (> 302 °F) Flash point: $> 100 \, ^{\circ}\text{C} \, (> 212 \, ^{\circ}\text{F})$ **Evaporation rate:** Not available.

Flammability (solid, gas): No data available. Lower explosive limit: No data available. **Upper explosive limit:** No data available. Vapor pressure: < 10 mm hg (; 20 °C (68 °F)no method / < 300 mbar method unknown; 50 °C (122 < 0.13 mbar

°F); 20 °C (68 °F))

Vapor density: > 1

1.1 g/cm3 Density: **Solubility:** Slightly soluble Partition coefficient: n-No data available.

octanol/water:

Auto ignition: Not available.

Decomposition temperature: No data available. Viscosity: No data available.

VOC content: < 10 %

(2010/75/EC)

Section 10. Stability and reactivity

Reactivity/Incompatible materials:

Reaction with strong acids.

Reacts with strong oxidants.

Chemical stability:

Stable under recommended storage conditions.

Conditions to avoid:

No decomposition if used according to specifications.

Hazardous decomposition products:

Irritating organic vapours. Sulphur oxides nitrogen oxides 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: Category 2 (irritant)

Eye irritation: Result: Eye irritation

Symptoms of Overexposure: SKIN: Redness, inflammation.

EYE: Irritation, conjunctivitis.

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

Acute oral toxicity:

Silica, amorphous, fumed, cryst	Value type	LD50
free	Value	> 5,000 mg/kg
112945-52-5	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
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:
2-Hydroxyethyl methacrylate	Value type	LD50
868-77-9	Value	5,564 mg/kg
	Species	rat
	Method	FDA Guideline
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)

Acute inhalative toxicity:

Silica, amorphous, fumed, cryst	Value type	LC0
free	Value	0.139 mg/l
112945-52-5	Exposure time	4 h
	Species	rat
	Method	not specified
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:

Silica, amorphous, fumed, cryst	Value type	LD50
free	Value	> 2,000 mg/kg
112945-52-5	Species	rabbit
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
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
2-Hydroxyethyl methacrylate	Value type	LD50
868-77-9	Value	> 5,000 mg/kg
	Species	rabbit
	Method	not specified
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

Skin corrosion/irritation:

Silica, amorphous, fumed, crystfree	Result	not irritating
112945-52-5	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Acrylic acid	Result	Category 1 (corrosive)

79-10-7	Exposure time	3 min
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
α, α-dimethylbenzyl hydroperoxide	Result	corrosive
80-15-9	Exposure time	
	Species	rabbit
	Method	Draize Test
2-Hydroxyethyl methacrylate	Result	slightly irritating
868-77-9	Exposure time	24 h
	Species	rabbit
	Method	Draize Test
methacrylic acid	Result	corrosive
79-41-4	Exposure time	3 min
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Silica, amorphous, fumed, crystfree	Result	not irritating
112945-52-5	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Acrylic acid	Result	Category 1 (irreversible effects on the eye)
79-10-7	Exposure time	
	Species	rabbit
	Method	BASF Test
2-Hydroxyethyl methacrylate	Result	Category 2B (mildly irritating to eyes)
868-77-9	Exposure time	
	Species	rabbit
	Method	Draize Test
methacrylic acid	Result	corrosive
79-41-4	Exposure time	
	Species	rabbit
	Method	Draize Test

Respiratory or skin sensitization:

Acrylic acid	Result	not sensitising
79-10-7	Test type	Freund's complete adjuvant test
	Species	guinea pig
	Method	Klecak Method
Acrylic acid	Result	not sensitising
79-10-7	Test type	Split adjuvant test
	Species	guinea pig
	Method	Maguire Method
2-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
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:

Silica, amorphous, fumed, cryst	Result	negative
free	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
112945-52-5	Metabolic activation / Exposure time	Successful reverse mutation assay (e.g. rimes test)
	Method	not specified
Silica, amorphous, fumed, cryst	Result	negative
free	Type of study / Route of administration	in vitro mammalian chromosome aberration test
112945-52-5	Metabolic activation / Exposure time	
	Method	not specified
Silica, amorphous, fumed, cryst	Result	negative
free	Type of study / Route of administration	DNA damage and repair assay, unscheduled DNA
112945-52-5		synthesis in mammalian cells in vitro
	Metabolic activation / Exposure time	
	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
	D 1	Reverse Mutation Assay)
Acrylic acid 79-10-7	Result	negative
/9-10-/	Type of study / Route of administration	mammalian cell gene mutation assay with and without
	Metabolic activation / Exposure time Method	equivalent or similar to OECD Guideline 476 (In vitro
	Method	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
77-10-7	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
	Wethou	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	
	Species	rat
	Method	equivalent or similar to OECD Guideline 475
		(Mammalian Bone Marrow Chromosome Aberration Test)
Acrylic acid	Result	negative
79-10-7	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
	Species	mouse
1' 1 11 1	Method	not specified
α, α-dimethylbenzyl hydroperoxide	Result Type of study / Route of administration	positive
80-15-9	Metabolic activation / Exposure time	bacterial reverse mutation assay (e.g Ames test) without
80-13-9	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
a a dimathrillanavi		
α, α-dimethylbenzyl hydroperoxide	Result Type of study / Route of administration	negative dermal
80-15-9	Metabolic activation / Exposure time	definal
	Species	mouse
	Method	not specified
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)
	Result	negative
2-Hydroxyethyl methacrylate		mammalian cell gene mutation assay
2-Hydroxyethyl methacrylate 868-77-9	Type of study / Route of administration	
	Metabolic activation / Exposure time	with and without
		with and without OECD Guideline 476 (In vitro Mammalian Cell Gene
868-77-9	Metabolic activation / Exposure time Method	with and without OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
868-77-9 2-Hydroxyethyl methacrylate	Metabolic activation / Exposure time Method Result	with and without OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) negative
868-77-9	Metabolic activation / Exposure time Method Result Type of study / Route of administration	with and without OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
868-77-9 2-Hydroxyethyl methacrylate	Metabolic activation / Exposure time Method Result	with and without OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) negative

	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
methacrylic acid	Result	negative
79-41-4	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 471 (Bacterial
		Reverse Mutation Assay)
	n 1	
methacrylic acid	Result	negative
methacrylic acid 79-41-4	Type of study / Route of administration	negative inhalation
	Type of study / Route of administration	
	Type of study / Route of administration Metabolic activation / Exposure time	inhalation
	Type of study / Route of administration Metabolic activation / Exposure time Species	inhalation mouse
	Type of study / Route of administration Metabolic activation / Exposure time Species	inhalation mouse equivalent or similar to OECD Guideline 478 (Genetic
79-41-4	Type of study / Route of administration Metabolic activation / Exposure time Species Method	inhalation mouse equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test) negative
79-41-4 methacrylic acid	Type of study / Route of administration Metabolic activation / Exposure time Species Method Result	inhalation mouse equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)
79-41-4 methacrylic acid	Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration	inhalation mouse equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test) negative
79-41-4 methacrylic acid	Type of study / Route of administration Metabolic activation / Exposure time Species Method Result Type of study / Route of administration Metabolic activation / Exposure time	inhalation mouse equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test) negative oral: gavage

Repeated dose toxicity:

Acrylic acid	Result	NOAEL=40 mg/kg
79-10-7	Route of application	oral: drinking water
	Exposure time / Frequency of treatment	12 mdaily
	Species	rat
	Method	equivalent or similar to OECD Guideline 452 (Chronic
		Toxicity Studies)
Acrylic acid	Result	NOAEL=0.015 mg/l
79-10-7	Route of application	inhalation: vapour
	Exposure time / Frequency of treatment	90 d6 h/d, 5 d/w
	Species	mouse
	Method	equivalent or similar to OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
α, α-dimethylbenzyl	Result	
hydroperoxide	Route of application	inhalation: aerosol
80-15-9	Exposure time / Frequency of treatment	6 h/d5 d/w
	Species	rat
	Method	not specified
2-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	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)

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

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

Toxicity:

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cies	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
thod	EU Method C.3 (Algal Inhibition test)
ue type	EC20
ue	900 mg/l
ite Toxicity Study	Bacteria
	30 min
	activated sludge, domestic
thod	ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated
	Sludge)
ue type	LC50
ue type	3.9 mg/l
	Fish
	96 h
	Oncorhynchus mykiss
	OECD Guideline 203 (Fish, Acute Toxicity Test)
	EC50
ue type	18.84 mg/l
	Daphnia
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	Daphnia magna
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Acute Toxicity Study		71	
Exposure time	80-15-9	Value	
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Name	211 1 2 1 2		
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Page	868-77-9		
Secies		Acute Toxicity Study	
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Method		Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
Value type			
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Value type		Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
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Acute Toxicity Study Bacteria Exposure time 16 h Species Pseudomonas fluorescens Method other guideline: methacrylic acid Value type LC50 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 type NOEC Value type 35 d Species Danio rerio Method OECD Guideline 210 (fish early lite stage toxicity test) Method OECD Guideline 210 (fish early lite stage toxicity test) Method OECD Guideline 210 (fish early lite stage toxicity test) Method Daphnia Exposure time 48 h Species Daphnia magna Method EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids) methacrylic acid Yalue type NOEC Palue type NOEC Value type Seenastrum capricomutum (new name: Pseudokirchneriel			> 3.000 mg/l
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	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:

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)
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))
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
1		Test)

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

Acrylic acid	Bioconcentration factor (BCF)	3.16
79-10-7	Exposure time	
	Species	
	Temperature	
	Method	QSAR (Quantitative Structure Activity Relationship)
Acrylic acid	LogPow	0.46
79-10-7	Temperature	25 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
α, α-dimethylbenzyl	Bioconcentration factor (BCF)	9.1
hydroperoxide	Exposure time	
80-15-9	Species	calculation
	Temperature	
	Method	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
α, α-dimethylbenzyl	LogPow	1.6
hydroperoxide	Temperature	25 °C
80-15-9	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
2-Hydroxyethyl methacrylate	LogPow	0.42
868-77-9	Temperature	25 °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
methacrylic acid	LogPow	0.93
79-41-4	Temperature	22 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

Section 13. Disposal considerations

Product

Method of disposal:

Dispose of in accordance with local and national regulations.

Packaging

Disposal of uncleaned packages:

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

Section 14. Transport information

Road transport ADR:

Not dangerous goods

Railroad transport RID:

Not dangerous goods

Inland water transport ADN:

Not dangerous goods

Marine transport IMDG:

Not dangerous goods

Air transport IATA:

Not dangerous goods

Section 15. Regulatory information

Regulatory Information:

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

Global inventory status:

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

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V002.9

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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