

Safety Data Sheet

272 Threadlocker High Strength

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SDS No.: 153465

V001.9

Revision: 15.08.2019 printing date: 17.12.2019

respiratory tract irritation

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

272 Threadlocker High Strength **Product name:**

Other means of identification: LOCTITE 272 THREADLOCKER 50ML

Product code: IDH88442

Recommended use of the chemical and restrictions on use

Intended use: Anaerobic Adhesive

Identification of manufacturer, importer or distributor

Importer: Henkel Philippines Inc. LSL Bldg. 2, Diode St., Light Industry and Science Park of the Philippines I, Brgy.

Diezmo, Cabuyao, Laguna, Philippines Phone: +63495431051 Fax: +6323240490)

E-mail address of person responsible for Safety Data

Sheet:

ap-ua-psra.sea@henkel.com

FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call **Emergency information:**

CHEMTREC: +1 703-741-5970

Section 2. Hazards identification

GHS Classification:

<u>Hazard Class</u>	Hazard Category	Route of Exposure	Target organ
Acute toxicity	Category 2	Inhalation	

Serious eye damage/eye irritation Category 2 Skin sensitizer Category 1 Category 3

Specific target organ toxicity single exposure

Chronic hazards to the aquatic environment

Category 3

GHS label elements:

Hazard pictogram:



Signal word: Danger

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Hazard statement: H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

Precaution:

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Prevention: P260 Do not breathe 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.

P284 [In case of inadequate ventilation] wear respiratory protection.

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

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

comfortable for breathing. Immediately call a POISON CENTER or physician.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. 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

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Section 3. Composition / information on ingredients

Substance or Mixture:

Mixture

Declaration of hazardous chemical:

Hazard component CAS-No.	Content	GHS Classification
Bisphenol A, 2-EO dimethacrylate 41637-38-1	60- 100 %	Chronic hazards to the aquatic environment 4 H413
1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7	10- 30 %	Acute toxicity 4; Oral H302 Acute toxicity 2; Inhalation
		H330 Skin sensitizer 1
		H317 Chronic hazards to the aquatic environment 2 H411
Methacrylic acid, monoester with propane-1,2-diol 27813-02-1	1- 10 %	Serious eye damage/eye irritation 2 H319
		Skin sensitizer 1 H317
Cumene hydroperoxide 80-15-9	1- 10 %	Organic peroxides E H242
		Acute toxicity 4; Oral H302 Acute toxicity 3; Inhalation
		H331 Acute toxicity 4; Dermal
		H312 Skin corrosion/irritation 1B
		H314 Specific target organ toxicity - repeated exposure 2 H373
		Chronic hazards to the aquatic environment 2 H411
Maleic acid 110-16-7	0.1- 1 %	Acute toxicity 4; Oral H302
		Acute toxicity 4; Dermal H312
		Skin corrosion/irritation 2 H315
		Serious eye damage/eye irritation 2 H319
		Skin sensitizer 1 H317
		Specific target organ toxicity - single exposure 3 H335
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 2 H319
		Skin sensitizer 1 H317
		Carcinogenicity 2 H351
1,4-Naphthalenedione 130-15-4	< 0.1 %	Acute toxicity 3; Oral H301
		Acute toxicity 1; Inhalation H330
		Skin corrosion/irritation 2; Dermal H315
		Serious eye damage/eye irritation 2 H319
		Skin sensitizer 1 H317
		Acute hazards to the aquatic environment 1 H400
		Chronic hazards to the aquatic environment 1 H410

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Section 4. First aid measures

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

Rinse with running water and soap. Skin contact:

Obtain medical attention if irritation persists.

Eye contact: Rinse immediately with plenty of running water (for 10 minutes), seek medical attention

from a specialist.

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.

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

Special protection equipment and

precautions for firefighters:

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

Hazardous combustion products: Trace amounts of toxic and/or irritating fumes may be released and the use of breathing

apparatus is recommended.

Section 6. Accidental release measures

Personal precautions: Avoid contact with skin and eyes.

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

Dispose of contaminated material as waste according to Section 13.

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Section 7. Handling and storage

Handling: Use only in well-ventilated areas.

> Avoid skin and eye contact. See advice in section 8

Store in original containers at 8-21°C (46.4-69.8°F) and do not return residual materials to Storage:

containers as contamination may reduce the shelf life of the bulk product.

Refer to Technical Data Sheet

Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

Respiratory protection: Use only in well-ventilated areas.

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; \geq = 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.

Wear suitable protective clothing. **Body protection:**

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for

dusts.

Engineering controls: Ensure good ventilation/extraction.

General protection and hygiene

measures:

The workplace should be equipped with an emergency shower and eye-rinsing facility.

Hygienic measures: Good industrial hygiene practices should be observed. Wash hands before work breaks

and after finishing work. Do not eat, drink or smoke while working.

Section 9. Physical and chemical properties

Appearance: Orange-red

liquid

Odor: characteristic Odor threshold (CA): No data available.

3 - 6 pH:

Melting point / freezing point: No data available.

Specific gravity: 1.11

No data available. **Boiling point:**

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> 93.3 °C (> 199.94 °F) Flash point:

(Tagliabue closed cup)

Evaporation rate: No data available. Flammability (solid, gas): No data available. Lower explosive limit: No data available. Upper explosive limit: No data available. < 0.13 mbar Vapor pressure: (; 25 °C (77 °F)no method; 50 °C < 300 mbar

(122 °F))

No data available. Vapor density: Density: No data available. **Solubility:** Slight

Partition coefficient: n-

No data available.

< 3 %

octanol/water:

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

VOC content:

(2010/75/EC)

Section 10. Stability and reactivity

Reactivity/Incompatible

materials:

Reducing agents. Strong oxidizing agents.

Chemical stability: Conditions to avoid: Stable under recommended storage conditions. No decomposition if stored and applied as directed.

Hazardous decomposition

products:

None if used for intended purpose.

Section 11. Toxicological information

General toxicological

information:

Prolonged or repeated contact may cause skin irritation.

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

Method: Calculation method

Acute toxicity estimate (ATE): 0.41 mg/l Inhalative toxicity:

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

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

Method: Calculation method

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Symptoms of Overexposure:

EYE: Irritation, conjunctivitis.
SKIN: Rash, Urticaria.
RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

Acute oral toxicity:

Bisphenol A, 2-EO dimethacrylate	Value type	LD50
41637-38-1	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 423 (Acute Oral toxicity)
1,1'-(1,3-phenylene)bis-1H-pyrrole-	Value type	Acute toxicity estimate (ATE)
2,5-dione	Value	500 mg/kg
3006-93-7	Species	
	Method	Expert judgement
1,1'-(1,3-phenylene)bis-1H-pyrrole-	Value type	LD50
2,5-dione	Value	> 300 - 2,000 mg/kg
3006-93-7	Species	rat
	Method	OECD Guideline 423 (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)
Cumene hydroperoxide	Value type	LD50
Cumene hydroperoxide 80-15-9	Value type Value	LD50 382 mg/kg
	Value	382 mg/kg
	Value Species	382 mg/kg rat
80-15-9	Value Species Method	382 mg/kg rat other guideline:
Maleic acid	Value Species Method Value type	382 mg/kg rat other guideline: LD50
Maleic acid	Value Species Method Value type Value	382 mg/kg rat other guideline: LD50 708 mg/kg
Maleic acid 110-16-7	Value Species Method Value type Value Species	382 mg/kg rat other guideline: LD50 708 mg/kg rat
Maleic acid	Value Species Method Value type Value Species Method	382 mg/kg rat other guideline: LD50 708 mg/kg rat not specified
Maleic acid 110-16-7 Acetic acid, 2-phenylhydrazide	Value Species Method Value type Value Species Method Value type	382 mg/kg rat other guideline: LD50 708 mg/kg rat not specified LD50
Maleic acid 110-16-7 Acetic acid, 2-phenylhydrazide	Value Species Method Value type Value Species Method Value type Value Value type Value type Value	382 mg/kg rat other guideline: LD50 708 mg/kg rat not specified LD50 270 mg/kg
Maleic acid 110-16-7 Acetic acid, 2-phenylhydrazide	Value Species Method Value type Value Species Method Value type Value Species Method Value type Value Species	382 mg/kg rat other guideline: LD50 708 mg/kg rat not specified LD50 270 mg/kg rat
Maleic acid 110-16-7 Acetic acid, 2-phenylhydrazide 114-83-0	Value Species Method Value type Value Species Method Value type Value Species Method Value type Value Species Method	382 mg/kg rat other guideline: LD50 708 mg/kg rat not specified LD50 270 mg/kg rat not specified
Maleic acid 110-16-7 Acetic acid, 2-phenylhydrazide 114-83-0 1,4-Naphthalenedione	Value Species Method Value type	382 mg/kg rat other guideline: LD50 708 mg/kg rat not specified LD50 270 mg/kg rat not specified LD50 270 mg/kg rat not specified

Acute inhalative toxicity:

1,1'-(1,3-phenylene)bis-1H-pyrrole-	Value type	LC50
2,5-dione	Value	0.055 mg/l
3006-93-7	Exposure time	4 h
	Species	rat
	Method	OECD Guideline 403 (Acute Inhalation Toxicity)

Acute dermal toxicity:

Bisphenol A, 2-EO dimethacrylate	Value type	LD50
41637-38-1	Value	> 2,000 mg/kg
	Species	rat
	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
Cumene hydroperoxide	Value type	LD50
80-15-9	Value	530 - 1,060 mg/kg
	Species	rat
	Method	other guideline:
Cumene 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

Skin corrosion/irritation:

Bisphenol A, 2-EO dimethacrylate	Result	not irritating
41637-38-1	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-	Result	not corrosive
dione	Exposure time	60 min
3006-93-7	Species	Human, EpiDermTM SIT (EPI-200), Reconstructed Human Epidermis (RHE)
	Method	OECD Guideline 431 (In Vitro Skin Corrosion: Reconstructed Human Epidermis (RHE) Test Method)
1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-	Result	not irritating
dione	Exposure time	60 min
3006-93-7	Species	Human, EpiDermTM SIT (EPI-200), Reconstructed Human Epidermis (RHE)
	Method	OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method)
Methacrylic acid, monoester with	Result	not irritating
propane-1,2-diol	Exposure time	24 h
27813-02-1	Species	rabbit
	Method	Draize Test
Cumene 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

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Serious eye damage/irritation:

Bisphenol A, 2-EO dimethacrylate	Result	not irritating
41637-38-1	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-	Result	not irritating
dione	Exposure time	
3006-93-7	Species	Bovine, cornea, in vitro test
	Method	OECD Guideline 437 (BCOP)
Methacrylic acid, monoester with	Result	irritating
Methacrylic acid, monoester with propane-1,2-diol	Result Exposure time	irritating
		irritating rabbit
propane-1,2-diol	Exposure time	
propane-1,2-diol	Exposure time Species	rabbit
propane-1,2-diol 27813-02-1	Exposure time Species Method	rabbit Draize Test
propane-1,2-diol 27813-02-1 Maleic acid	Exposure time Species Method Result	rabbit Draize Test

Respiratory or skin sensitization:

Bisphenol A, 2-EO dimethacrylate	Result	not sensitising
41637-38-1	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
1,1'-(1,3-phenylene)bis-1H-pyrrole-	Result	not sensitising
2,5-dione	Test type	Mouse local lymphnode assay (LLNA)
3006-93-7	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Maleic acid	Result	sensitising
110-16-7	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Maleic acid	Result	sensitising
110-16-7	Test type	Mouse local lymphnode assay (LLNA)
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)

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Germ cell mutagenicity:

Bisphenol A, 2-EO	Result	negative
dimethacrylate	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
41637-38-1	Metabolic activation / Exposure time	with and without
11037 30 1	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Bisphenol A, 2-EO	Result	negative
dimethacrylate	Type of study / Route of administration	mammalian cell gene mutation assay
41637-38-1	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene
		Mutation Test)
Bisphenol A, 2-EO	Result	negative
dimethacrylate	Type of study / Route of administration	in vitro mammalian cell micronucleus test
41637-38-1	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 487 (In vitro Mammalian Cell
		Micronucleus Test)
Bisphenol A, 2-EO	Result	positive
dimethacrylate	Type of study / Route of administration	in vitro mammalian cell micronucleus test
41637-38-1	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 487 (In vitro Mammalian Cell
		Micronucleus Test)
Bisphenol A, 2-EO	Result	negative
dimethacrylate	Type of study / Route of administration	mammalian cell gene mutation assay
41637-38-1	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene
		Mutation Test)
1,1'-(1,3-phenylene)bis-1H-	Result	negative
pyrrole-2,5-dione	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
3006-93-7	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
1,1'-(1,3-phenylene)bis-1H-	Result	negative
pyrrole-2,5-dione	Type of study / Route of administration	in vitro mammalian chromosome aberration test
3006-93-7	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 473 (In vitro Mammalian Chromosome
		Aberration Test)
1,1'-(1,3-phenylene)bis-1H-	Result	negative
pyrrole-2,5-dione	Type of study / Route of administration	mammalian cell gene mutation assay
3006-93-7	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene
36.1 11 11	D. I.	Mutation Test)
Methacrylic acid, monoester	Result	negative
with propane-1,2-diol 27813-02-1	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
2/813-02-1	Metabolic activation / Exposure time	with and without
3.6.4. 11. 11.	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Methacrylic acid, monoester with propane-1,2-diol	Result	negative
27813-02-1	Type of study / Route of administration	mammalian cell gene mutation assay
27813-02-1	Metabolic activation / Exposure time	with and without OECD Guideline 476 (In vitro Mammalian Cell Gene
	Method	Mutation Test)
Methacrylic acid, monoester	Dogult	,
with propane-1,2-diol	Result	negative
27813-02-1	Type of study / Route of administration Metabolic activation / Exposure time	oral: gavage
27013 02 1	Species Species	rot
	Method	rat OECD Guideline 474 (Mammalian Erythrocyte
	Wethod	Micronucleus Test)
Cumene hydroperoxide	Result	positive
80-15-9	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
00 13 7	Metabolic activation / Exposure time	without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Cumene hydroperoxide	Result	negative
80-15-9	Type of study / Route of administration	dermal
00 10 7	Metabolic activation / Exposure time	German
	Species	mouse
	Method	not specified
Maleic acid	Result	negative
110-16-7	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
110 10 /	Metabolic activation / Exposure time	no data
	Method	Ames Test
Maleic acid	Result	negative
110-16-7	Type of study / Route of administration	mammalian cell gene mutation assay
,	Metabolic activation / Exposure time	with and without
	1.10 th of the transfer of the	with and without

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Method	OECD Guideline 476 (In vitro Mammalian Cell Gene
	Mutation Test)

Repeated dose toxicity:

Bisphenol A, 2-EO	Result	NOAEL=300 mg/kg
dimethacrylate	Route of application	oral: gavage
41637-38-1	Exposure time / Frequency of treatment	4 weeksdaily
	Species	rat
	Method	OECD Guideline 407 (Repeated Dose 28-Day Oral
		Toxicity in Rodents)
1,1'-(1,3-phenylene)bis-1H-	Result	NOAEL=15 mg/kg
pyrrole-2,5-dione	Route of application	oral: gavage
3006-93-7	Exposure time / Frequency of treatment	42-52 ddaily
	Species	rat
	Method	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity
Mathamatic and management	D14	Screening Test)
Methacrylic acid, monoester	Result	NOAEL=300 mg/kg
with propane-1,2-diol 27813-02-1	Route of application	oral: gavage
2/813-02-1	Exposure time / Frequency of treatment	
	Species	rat
	Method	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity
		Screening Test)
C	Result	Screening Test)
Cumene hydroperoxide 80-15-9	Route of application	inhalation: aerosol
80-13-9	Exposure time / Frequency of treatment	6 h/d5 d/w
	Species Species	
	Method	rat not specified
Maleic acid	Result	
110-16-7		NOAEL=>= 40 mg/kg
110-10-7	Route of application	
	Exposure time / Frequency of treatment	90 ddaily
	Species	rat
	Method	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Section 12. Ecological information

General ecological information:

Biodegradable product of low ecotoxicity., Cured Loctite products are typical polymers and do not pose any immediate environmental hazards., Biological and Chemical Oxygen Demands (BOD and COD) are insignificant., Do not empty into drains / surface water / ground water.

Toxicity:

1,1'-(1,3-phenylene)bis-1H-pyrrole-	Value type	EC50
2,5-dione	Value	31.6 mg/l
3006-93-7	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
1,1'-(1,3-phenylene)bis-1H-pyrrole-	Value type	ErC50
2,5-dione	Value	67.898 mg/l
3006-93-7	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	EC10
	Value	0.308 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus
	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

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	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 Method	Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test)
		NOEC NOEC (Alga, Growth Inhibition Test)
	Value type 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
Cumene 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)
Cumene hydroperoxide	Value type	EC50
80-15-9	Value	18 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Cumene hydroperoxide 80-15-9	Value type Value	ErC50 3.1 mg/l
80-13-9	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Cumene hydroperoxide	Value type	EC10
80-15-9	Value	70 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	30 min
	Species	
	Method	not specified
Maleic acid	Value type	LC50
110-16-7	Value	> 245 mg/l
	Acute Toxicity Study	Fish
	Exposure time	48 h
	Species	Leuciscus idus
	Method	DIN 38412-15
Maleic acid	Value type	EC50
110-16-7	Value	42.81 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species Method	Daphnia magna OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Maleic acid	Value type	EC50
110-16-7	Value	74.35 mg/l
110 10 /	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
		OECD Guideline 201 (Alga, Growth Inhibition Test)
	Method	OLCD Guideline 201 (Alga, Glowth Inhibition Test)
	Method Value type Value	EC10
	Value type	
	Value type Value	EC10 11.8 mg/l

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	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Maleic acid	Value type	EC10
110-16-7	Value	44.6 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	18 h
	Species	Pseudomonas putida
	Method	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
1,4-Naphthalenedione	Value type	EC50
130-15-4	Value	0.011 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Dunaliella bioculata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)

Persistence and degradability:

Bisphenol A, 2-EO	Result	not readily biodegradable.
dimethacrylate	Route of application	aerobic
41637-38-1	Degradability	24 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
1,1'-(1,3-phenylene)bis-1H-	Result	not readily biodegradable.
pyrrole-2,5-dione	Route of application	not specified
3006-93-7	Degradability	0 - < 60 %
	Method	OECD Guideline 303 A (Simulation TestAerobic Sewage Treatment. A: Activated Sludge Units)
	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	0 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Methacrylic acid, monoester	Result	readily biodegradable
with propane-1,2-diol	Route of application	aerobic
27813-02-1	Degradability	94.2 %
	Method	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)
Cumene hydroperoxide	Result	
80-15-9	Route of application	no data
	Degradability	0 %
	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)
1,4-Naphthalenedione	Result	not readily biodegradable.
130-15-4	Route of application	no data
	Degradability	0 - 60 %
	Method	OECD 301 A - F

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

Bisphenol A, 2-EO	LogPow	5.3 - 5.62
dimethacrylate	Temperature	
41637-38-1	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
1,1'-(1,3-phenylene)bis-1H-	LogPow	0.67
pyrrole-2,5-dione	Temperature	24 °C
3006-93-7	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Methacrylic acid, monoester	LogPow	0.97
with propane-1,2-diol	Temperature	20 °C
27813-02-1	Method	not specified
Cumene hydroperoxide	Bioconcentration factor (BCF)	9.1
80-15-9	Exposure time	
	Species	calculation
	Temperature	
	Method	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
Cumene hydroperoxide	LogPow	2.16
80-15-9	Temperature	
	Method	not specified
Maleic acid	LogPow	-1.3
110-16-7	Temperature	20 °C

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	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Acetic acid, 2-phenylhydrazide 114-83-0	LogPow	0.74
	Temperature	
	Method	not specified
1,4-Naphthalenedione	LogPow	1.71
130-15-4	Temperature	
	Method	not specified

Section 13. Disposal considerations

Product

Method of disposal: Dispose of in accordance with local and national regulations.

Collection and delivery to recycling enterprise or other registered elimination institution.

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.

Disposal must be made according to official regulations.

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: Department Order No. 136-14 Guidelines for the Implementation of Global Harmonised System

(GHS) in Chemical Safety Program in the Workplace

Global inventory status:

Regulatory list	Notification
TSCA	yes
NDSL	yes
ENCS (JP)	yes
KECI (KR)	yes
IECSC	ves

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Section 16. Other information

Disclaimer:

This Safety Data Sheet has been generated based on EMB Memorandum Circular (MC) 2015-011 Guidance Manual for DAO 2015-09 "Rules and Procedures for the Implementation of the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals in Preparation of Safety Data Sheets (SDS) and Labelling Requirements of Toxic Chemical Substances. 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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