

## **Safety Data Sheet**

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SDS No.: 153648

V003.3

Revision: 04.01.2018 printing date: 27.03.2019

respiratory tract irritation

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

**Product name:** 545 Thread Sealant Pneumatic/Hydraulic Fittings

LOCTITE 545 HYDR SLNT 50ML Other means of identification:

IDH135486 Product code:

545 Thread Sealant Pneumatic/Hydraulic Fittings

Recommended use of the chemical and restrictions on use

**Intended use:** Sealant

Identification of manufacturer, importer or distributor

Importer: Henkel Singapore Pte Ltd 401 Commonwealth Drive, #03-01/02, Haw Par Technocentre, Singapore. 149598

Phone: +65 62660100 Fax: +65 62661161

E-mail address of person

responsible for Safety Data

Sheet:

ap-ua-psra.sea@henkel.com

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

CHEMTREC: +1 703-741-5970

#### Section 2. Hazards identification

#### **GHS Classification:**

Hazard Class	Hazard Category	<u>Target organ</u>
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Category 2 Skin corrosion/irritation Serious eye damage/eye irritation Category 2 Skin sensitizer Category 1 Specific target organ toxicity -Category 3

single exposure

Chronic hazards to the aquatic Category 3

environment

#### **GHS** label elements:

Hazard pictogram:



Signal word:

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**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.

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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
2-Hydroxyethyl methacrylate	10- 30 %	Skin irritation 2
868-77-9		H315
		Serious eye damage/eye irritation 2 H319
		Skin Sensitization 1
		H317
Cumene hydroperoxide	1- 10 %	Organic peroxides E
80-15-9		H242
		Acute toxicity 4; Oral H302
		Acute toxicity 3; Inhalation
		H331
		Acute toxicity 4; Dermal
		H312 Skin corrosion 1
		H314
		Target Organ Systemic Toxicant - Repeated exposure 2
		H373
		Chronic hazards to the aquatic environment 2
A - 4 : : d 2 - d : d : d -	0.1.1.0/	H411
Acetic acid, 2-phenylhydrazide 114-83-0	0.1- 1 %	Acute toxicity 3; Oral H301
111 05 0		Skin irritation 2
		H315
		Serious eye damage/eye irritation 2
		H319 Skin Sensitization 1
		H317
		Carcinogenicity 2
		H351
		Target Organ Systemic Toxicant - Single exposure 3;
		Inhalation H335
Maleic acid	0.1- 1 %	Acute toxicity 4; Oral
110-16-7		H302
		Acute toxicity 4; Dermal
		H312
		Skin irritation 2 H315
		Serious eye damage/eye irritation 2
		H319
		Skin Sensitization 1
		H317 Target Organ Systemic Toxicant - Single exposure 3
		H335
1,4-Naphthalenedione	< 0.1 %	Acute toxicity 3; Oral
130-15-4		H301
		Acute toxicity 1; Inhalation
		H330 Skin irritation 2; Dermal
		H315
		Serious eye damage/eye irritation 2
		H319
		Skin Sensitization 1; Dermal H317
		Target Organ Systemic Toxicant - Single exposure 3;
		Inhalation
		H335
		Acute hazards to the aquatic environment 1
		H400 Chronic hazards to the aquatic environment 1
	1	

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Section 4. First aid measures

Should not be a problem as product is of low volatility. However, if feeling unwell **Inhalation:** 

remove patient to fresh air.

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

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: Foam, extinguishing powder, carbon dioxide.

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:

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).

#### Section 6. Accidental release measures

Personal precautions: Ensure adequate ventilation.

Avoid skin and eye contact.

**Environmental precautions:** Do not let product enter drains.

For small spills wipe up with paper towel and place in container for disposal. Clean-up methods:

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

disposal.

#### 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.

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.

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#### Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

**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:** Wear protective glasses.

Protective eye equipment should conform to EN166.

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

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

dusts.

**Engineering controls:** Ensure good ventilation/extraction.

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

Melting point / freezing point: No data available.

Specific gravity: 1.02

**Boiling point:** > 150 °C (> 302 °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: No data available.
Upper explosive limit: No data available.
Vapor pressure: 6.5 mbar

(; 20 °C (68 °F))

Vapor density:No data available.Density:1.02 g/cm3Solubility:No data available.

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Partition coefficient: n-

No data available.

octanol/water:

Viscosity:

Auto ignition:
Decomposition temperature:

No data available. No data available. No data available.

**VOC** content:

< 3 %

(2010/75/EC)

## Section 10. Stability and reactivity

Reactivity/Incompatible

materials:

Peroxides.

Chemical stability: Conditions to avoid: Stable under recommended storage conditions.

Stable under normal conditions of storage and use.

Protect from direct sunlight.

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: Redness, inflammation.

SKIN: Rash, Urticaria. EYE: Irritation, conjunctivitis.

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

#### Acute oral toxicity:

2-Hydroxyethyl methacrylate	Value type	LD50
868-77-9	Value	> 5,000 mg/kg
	Species	rat
	Method	not specified
Cumene hydroperoxide	Value type	LD50
80-15-9	Value	550 mg/kg
	Species	rat
	Method	not specified
Acetic acid, 2-phenylhydrazide	Value type	LD50
114-83-0	Value	270 mg/kg
	Species	rat
	Method	not specified
Maleic acid	Value type	LD50
110-16-7	Value	708 mg/kg
	Species	rat
	Method	not specified
1,4-Naphthalenedione	Value type	LD50
130-15-4	Value	190 mg/kg
	Species	rat
	Method	not specified

## Acute dermal toxicity:

2-Hydroxyethyl methacrylate	Value type	LD50
868-77-9	Value	> 5,000 mg/kg
	Species	rabbit
	Method	not specified
Cumene hydroperoxide	Value type	LD50
80-15-9	Value	1,200 - 1,520 mg/kg
	Species	
	Method	not specified
Maleic acid	Value type	LD50
110-16-7	Value	1,560 mg/kg
	Species	rabbit
	Method	not specified

#### Skin corrosion/irritation:

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

### Serious eye damage/irritation:

2-Hydroxyethyl methacrylate	Result	irritating
868-77-9	Exposure time	
	Species	rabbit
	Method	Draize Test
Maleic acid	Result	highly irritating
110-16-7	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

### Respiratory or skin sensitization:

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:

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	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 472 (Genetic Toxicology: Escherichia
		coli, Reverse Mutation Assay)
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)
Cumene hydroperoxide	Result	positive
80-15-9	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	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
	Metabolic activation / Exposure time	
	Species	mouse
	Method	not specified
Maleic acid	Result	negative
110-16-7	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	no data
	Method	Ames Test
Maleic acid	Result	negative
110-16-7	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

### Repeated dose toxicity:

2-Hydroxyethyl methacrylate	Result	NOAEL=100 mg/kg
868-77-9	Route of application	oral: gavage
	Exposure time / Frequency of treatment	once daily
	Species	rat
	Method	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Cumene hydroperoxide	Result	
80-15-9	Route of application	inhalation: aerosol
	Exposure time / Frequency of treatment	6 h/d5 d/w
	Species	rat
	Method	not specified
Maleic acid	Result	NOAEL=>= 40 mg/kg
110-16-7	Route of application	oral: feed
	Exposure time / Frequency of treatment	90 ddaily
	Species	rat
	Method	OECD Guideline 408 (Repeated Dose 90-Day Oral
		Toxicity in Rodents)

## **Section 12. Ecological information**

**Ecotoxicity:** 

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

## **Toxicity:**

2-Hydroxyethyl methacrylate	Value type	LC50
2-Hydroxyethyl methacrylate 868-77-9	Value	> 100 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species Species	Oryzias latipes
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-Hydroxyethyl methacrylate	Value type	EC50
868-77-9	Value	380 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-Hydroxyethyl methacrylate	Value type	EC50
868-77-9	Value	836 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	400 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Hydroxyethyl methacrylate	Value type	EC0
868-77-9	Value	> 3,000 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	16 h
	Species	Pseudomonas fluorescens
	Method	other guideline:
Cumene hydroperoxide	Value type	LC50
80-15-9	Value	3.9 mg/l
00 10 7	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Cumene hydroperoxide	Value type	EC 50
80-15-9	Value	7 mg/l
00 10 7	Acute Toxicity Study	Daphnia
	Exposure time	24 h
	Species	Water flea (Daphnia magna)
	Method	Water nea (Bapinia magna)
	Value type	EC50
	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	Value type	ErC50
	*1	
80-15-9	Value	3.1 mg/l
80-15-9	Value Acute Toxicity Study	3.1 mg/l Algae
80-15-9	Acute Toxicity Study	Algae
80-15-9	Acute Toxicity Study Exposure time	Algae 72 h
80-15-9	Acute Toxicity Study Exposure time Species	Algae 72 h Pseudokirchneriella subcapitata
	Acute Toxicity Study Exposure time Species Method	Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test)
Cumene hydroperoxide	Acute Toxicity Study Exposure time Species Method Value type	Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) EC10
	Acute Toxicity Study Exposure time Species Method Value type Value	Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) EC10 70 mg/I
Cumene hydroperoxide	Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study	Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) EC10 70 mg/l Bacteria
Cumene hydroperoxide	Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time	Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) EC10 70 mg/I
Cumene hydroperoxide	Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species	Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) EC10 70 mg/l Bacteria 30 min
Cumene hydroperoxide 80-15-9	Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method	Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) EC10 70 mg/l Bacteria 30 min not specified
Cumene hydroperoxide 80-15-9 Maleic acid	Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type	Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) EC10 70 mg/I Bacteria 30 min not specified LC50
Cumene hydroperoxide 80-15-9	Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Value type Value	Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) EC10 70 mg/l Bacteria 30 min not specified LC50 > 245 mg/l
Cumene hydroperoxide 80-15-9 Maleic acid	Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study	Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) EC10 70 mg/l Bacteria 30 min not specified LC50 > 245 mg/l Fish
Cumene hydroperoxide 80-15-9 Maleic acid	Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time	Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) EC10 70 mg/l Bacteria 30 min not specified LC50 > 245 mg/l Fish 48 h
Cumene hydroperoxide 80-15-9 Maleic acid	Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species	Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) EC10 70 mg/l Bacteria 30 min not specified LC50 > 245 mg/l Fish 48 h Leuciscus idus
Cumene hydroperoxide 80-15-9  Maleic acid 110-16-7	Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method	Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) EC10 70 mg/l Bacteria 30 min not specified LC50 > 245 mg/l Fish 48 h Leuciscus idus DIN 38412-15
Cumene hydroperoxide 80-15-9 Maleic acid	Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species	Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) EC10 70 mg/l Bacteria 30 min not specified LC50 > 245 mg/l Fish 48 h Leuciscus idus

	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Maleic acid	Value type	EC50
110-16-7	Value	74.35 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition 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:

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))
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	
130-15-4	Route of application	no data
	Degradability	0 - 60 %
	Method	OECD 301 A - F

## 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)
Cumene hydroperoxide 80-15-9	Bioconcentration factor (BCF)	9.1
	Exposure time	
	Species	calculation
	Temperature	
	Method	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
Cumene hydroperoxide 80-15-9	LogPow	2.16
	Temperature	
	Method	not specified
Acetic acid, 2-phenylhydrazide 114-83-0	LogPow	0.74
	Temperature	
	Method	not specified
Maleic acid 110-16-7	LogPow	-1.3
	Temperature	20 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
1,4-Naphthalenedione 130-15-4	LogPow	1.71
	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.

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.

#### Section 14. Transport information

#### General information:

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

#### Section 15. Regulatory information

Workplace Safety And Health Act (Chapter 354A) Workplace Safety And Health (Approved Codes **Regulatory Information:** 

of Practice) Notification 2013 SS586 Specification for Hazard Communication for hazardous

chemicals and dangerous good Part 1,2,3

#### Global inventory status:

Notification Regulatory list

**TSCA** yes **NDSL** yes ENCS (JP) yes KECI (KR) yes **IECSC** yes

#### Section 16. Other information

Disclaimer: 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.