# **MSDS ATTACHMENT**

#### PLEASE ATTACH THIS COMPLETED SHEET TO THE MSDS FOR:

PRODUCT:

LOCTITE 243 Threadlocker-Medium Strength-Blue

DATE:

(MSDS date)

19/03/2024

1. Manufacturer/Supplier:

**PPS Industries Limited** 

86 Hugo Johnston Drive, Auckland

New Zealand

P.O.Box 12823, Penrose, Auckland 1642

Phone: 64 9 579-1001 Facsimile: 64 9 579-9497

Emergency Phone: 0800 657-894 Website: www.ppsindustries.co.nz

**Emergency Information:** 

National Poison Centre

0800 764-766

Chemcall 24/7 Emergency Response Service :

0800 243-622

13. Disposal Considerations:

**Product** 

Recommendation - Consult local or national regulations to ensure proper disposal.

**Packaging** 

Disposal must be made according to official regulations.

16. Other Information:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other

product or process, is the responsibility of the user.



# **Safety Data Sheet**

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LOCTITE 243 MEDIUM STRENGTH THREADLOCKER known as Loctite 243 10ML AU

SDS No.: 316211

V001.3

Revision: 19.03.2024 printing date: 10.05.2024

#### **SECTION 1** IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name:

LOCTITE 243 MEDIUM STRENGTH THREADLOCKER known as Loctite 243 10ML

AU

Intended use:

Threadlocker

Supplier:

Henkel New Zealand Ltd

2 Allens Rd Auckland, 2013 New Zealand

Phone: +64 (9) 272-6710

#### SECTION 2 HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO). Not classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

#### **GHS Classification:**

**Hazard Class** Skin irritation

**Hazard Category** 

Target organ

respiratory tract irritation

Serious eye irritation

Category 2

Category 2A

Skin sensitizer

Category 1

Target Organ Systemic Toxicant -

Category 3

Single exposure

Acute hazards to the aquatic

Category 2

environment

Chronic hazards to the aquatic

Category 3

environment

Hazard pictogram:

Signal word:

Warning

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Hazard statement(s):

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H401 Toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statement(s):

Prevention:

P261 Avoid breathing mist/vapours.

P264 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves, eye protection, and 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.

P405 Store locked up.

Disposal:

P501 Dispose of contents/container to an appropriate treatment and disposal facility in

accordance with applicable laws and regulations.

#### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

General chemical description:

Mixture

Type of preparation:

Methacrylate resin based threadlocker

#### **Identity of ingredients:**

Chemical ingredients	CAS-No.	Proportion
Tetramethylene dimethacrylate	2082-81-7	20- < 30 %
2,4,6-Triallyloxy-1,3,5-triazine	101-37-1	1-< 10 %
2-[[2,2-bis[[(1-oxoallyl)oxy]methyl]butoxy]methyl]- 2-ethyl-1,3-propanediyl diacrylate	94108-97-1	1-< 10 %
Silane, dichlorodimethyl-, reaction products with silica	68611-44-9	1-< 10 %
Ethene, homopolymer	9002-88-4	1-< 10 %
Propane-1,2-diol	57-55-6	1-< 10 %
α, α-dimethylbenzyl hydroperoxide	80-15-9	0.1-< 1%
maleic acid	110-16-7	0.1-< 1%
Acetic acid, 2-phenylhydrazide	114-83-0	0.1-< 1%
methacrylic acid	79-41-4	0.1-< 1 %
non hazardous ingredients~		10- <= 30 %

# SECTION 4 FIRST AID MEASURES

Ingestion:

Rinse mouth, do not induce vomiting, consult a doctor.

Skin:

Rinse with running water and soap.

Seek medical advice.

Eyes:

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

necessary.

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Inhalation:

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

First Aid facilities:

Normal washroom facilities

Medical attention and special

treatment:

Treat symptomatically.

#### SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

If product is involved in fire extinguish with dry powder, foam or carbon dioxide.

Decomposition products in case of In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides

(NOx) can be released. Irritating organic vapours.

Particular danger in case of fire:

None

Special protective equipment for

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

fire-fighters:

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Avoid skin and eye contact.

Ensure adequate ventilation.

**Environmental precautions:** 

Do not let product enter drains.

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.

#### SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Use only in well-ventilated areas.

Avoid skin and eye contact.

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#### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Workplace exposure standards:

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Ceiling	STEL (ppm)	STEL (mg/m3)
Particulates not otherwise classified, respirable dust Respirable dust (not otherwise classified) 68611-44-9	Respirable dust.		3			
Particulates not otherwise classified, inhalable dust Inhalable dust (not otherwise classified)	Inhalable dust.		10			*
PARTICULATES NOT OTHERWISE CLASSIFIED, RESPIRABLE DUST 9002-88-4	Respirable dust.		3			
PARTICULATES NOT OTHERWISE CLASSIFIED, INHALABLE DUST	Inhalable dust.		10			
PROPANE-1,2-DIOL, PARTICULATES ONLY 57-55-6	Particulate.		10			•
PROPANE-1,2-DIOL, VAPOUR & PARTICULATES	Vapor and particulates.	150	474			**
METHACRYLIC ACID 79-41-4		20	70		:	

#### **Biological Exposure Indices:**

None

**Engineering controls:** 

Local exhaust ventilation is recommended when general ventilation is not sufficient to

control airborne contamination.

Eye protection:

Wear protective glasses.

Skin protection:

Wear suitable protective clothing.

The use of chemical resistant gloves such as Nitrile is recommended.

Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed

then the gloves should be replaced.

The use of chemical resistant gloves such as Neoprene or Natural Rubber is recommended

Respiratory protection:

Use only in well-ventilated areas.

If inhalation risk exists, wear a respirator or air supplied mask complying with the

requirements of AS/NZS 1715 and AS/NZS 1716.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Blue

LiquidBlue Liquid

Odor:

CharacteristicCharacteristic

pH:

Not applicable, Product is non-polar/aprotic.

Melting point / freezing point:

Not applicable, Product is a liquid

Boiling point: Flash point: Vapor pressure: > 150 °C (> 302 °F)

< 0.1 mm hg

> 100 °C (> 212 °F)

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(; 27 °C (80.6 °F); 25 °C (77

1.7 mbar

°F)no method / method unknown;

< 300 mbar

50 °C (122 °F); 20 °C (68 °F))

< 0.13 mbar

Vapor density:

> 1

Density:

1.08 g/cm31.09 g/cm3

Auto ignition:

Not available.

Decomposition temperature:

Viscosity (dynamic):

1,700 - 2,400 mPa.s(Brookfield; Instrument: RVT; speed of rotation: 20 min-1; Spindle

No: 3; Method: ;; LCT STM 10; Viscosity Brookfield)

#### SECTION 10.

### STABILITY AND REACTIVITY

Conditions to avoid:

Keep away from heat, spark and flame.

Incompatible materials:

Strong acids and oxidizing agents.

Oxygen scavengers. Strong alkalis. Reducing agents.

Other polymerization initiators.

Hazardous decomposition

products:

In case of fire toxic gases can be released.

Irritating vapors. Oxides of carbon.

#### SECTION 11 TOXICOLOGICAL INFORMATION

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## LOCTITE 243 MEDIUM STRENGTH THREADLOCKER known as Loctite 243 10MLAU

Health Effects:

Ingestion: Skin:

May be harmful if swallowed.

Causes skin irritation.

May cause skin sensitization.

Eyes: Inhalation: Causes serious eye irritation.
May cause respiratory tract irritation.

Aggravated med.

condition:

Eye, skin, and respiratory disorders.

#### Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Tetramethylene dimethacrylate 2082-81-7	LD50 LD50	10,066 mg/kg > 3,000 mg/kg	oral dermal		rat rabbit	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) not specified
2,4,6-Triallyloxy-1,3,5- triazine 101-37-1	LD50 LD50	753 mg/kg > 2,000 mg/kg	oral dermal		rat rabbit	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
2-[[2,2-bis[[(1-oxoallyl)oxy]methyl]buto xy]methyl]-2-ethyl-1,3-propanediyl diacrylate 94108-97-1	LD50 LD50	> 5,000 mg/kg > 2,000 mg/kg	oral dermal		rat rat	OECD Guideline 401 (Acute Oral Toxicity) not specified
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	LD50 LC50 LD50	> 5,000 mg/kg > 5,01 mg/l > 2,000 mg/kg	oral inhalation dermal	4 h	rat rat rat	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class (ATC) Method) OECD Guideline 402 (Acute Dermal Toxicity)
Ethene, homopolymer 9002-88-4	Acute toxicity estimate (ATE) Acute toxicity estimate (ATE) Acute toxicity estimate (ATE) Acute toxicity estimate (ATE)	> 5,000 mg/kg > 5 mg/l > 5,000 mg/kg	oral inhalation dermal	4 h		Expert judgement Expert judgement Expert judgement
Propane-1,2-diol 57-55-6	LD50 LC50 LD50	22,000 mg/kg > 317,042 mg/l > 2,000 mg/kg	oral inhalation dermal	2 h	rat rabbit rabbit	not specified not specified not specified
a, a-dimethylbenzyl hydroperoxide 80-15-9	LD50 LC50 Acute toxicity estimate (ATE)	382 mg/kg 1.370 mg/l 1,100 mg/kg	oral inhalation dermal	4 h	rat rat	other guideline: not specified Expert judgement
maleic acid 110-16-7	LD50 LD50	708 mg/kg 1,560 mg/kg	oral dermal		rat rabbit	not specified not specified
Acetic acid, 2- phenylhydrazide 114-83-0	LD50	270 mg/kg	oral		rat	not specified
methacrylic acid 79-41-4	LD50 LC50 Acute toxicity estimate (ATE) LD50 Acute toxicity estimate	1,320 mg/kg > 3.6 mg/l 3.61 mg/l 500 - 1,000 mg/kg 500 mg/kg	oral inhalation inhalation dermal dermal	4 h	rat rat rabbit	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 403 (Acute Inhalation Toxicity) Expert judgement Dermal Toxicity Screening Expert judgement

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(ATE)		•		
	(ATE)			

#### Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Tetramethylene dimethacrylate 2082-81-7	not irritating	24 h	rabbit	FDA Guideline
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	not irritating	4 h	rabbit	not specified
Propane-1,2-diol 57-55-6	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
α, α-dimethylbenzyl hydroperoxide 80-15-9	corrosive		rabbit	Draize Test
maleic acid 110-16-7	irritating	24 h	human	Patch Test
methacrylic acid 79-41-4	corrosive	3 min	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

### Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Tetramethylene dimethacrylate 2082-81-7	not irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)
2-[[2,2-bis[[(1- oxoallyl)oxy]methyl]buto xy]methyl]-2-ethyl-1,3- propanediyl diacrylate 94108-97-1	Category 2 (irritant)		rabbit	EU Method B.5 (Acute Toxicity: Eye Irritation / Corrosion)
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	not irritating		rabbit	not specified
Ethene, homopolymer 9002-88-4	not irritating	24 h	rabbit	FDA Guideline
Propane-1,2-diol 57-55-6	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
maleic acid 110-16-7	highly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
methacrylic acid 79-41-4	corrosive		rabbit	Draize Test

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### Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Tetramethylene dimethacrylate 2082-81-7	sensitising	Mouse local lymphnod e assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	not sensitising	Patch-Test	human	human repeat insult patch test
Ethene, homopolymer 9002-88-4	not sensitising	Mouse local lymphnod e assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Propane-1,2-diol 57-55-6	not sensitising	Guinea pig maximisat ion test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
maleic acid 110-16-7	sensitising	Mouse local lymphnod e assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
maleic acid 110-16-7	sensitising	Mouse local lymphnod e assay (LLNA)	guinea pig	OECD Guideline 406 (Skin Sensitisation)
methacrylic acid 79-41-4	not sensitising	Buehler test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)

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## Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Tetramethylene dimethacrylate 2082-81-7	negative negative positive	in vitro mammalian chromosome aberration test bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test	with and without with and without with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test	with and without with and without		Ames Test Chromosome Aberration Test
Ethene, homopolymer 9002-88-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		Ames Test
Propane-1,2-diol 57-55-6	negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test	without with and without		Ames Test OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Propane-1,2-diol 57-55-6	negative negative negative	oral: gavage intraperitoneal oral: gavage		rat mouse rat	not specified not specified not specified
α, α-dimethylbenzyl hydroperoxide 80-15-9	positive	bacterial reverse mutation assay (e.g Ames test)	without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
α, α-dimethylbenzyl hydroperoxide 80-15-9	negative	dermal		mouse	not specified
maleic acid 110-16-7	negative negative	bacterial reverse mutation assay (e.g Ames test) mammalian cell gene mutation assay	no data with and without		Ames Test OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
methacrylic acid 79-41-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
methacrylic acid 79-41-4	negative negative	inhalation oral: gavage		mouse mouse	equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test) equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

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## Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	NOAEL=500 mg/kg	oral: feed	5-8 wdaily	rat	not specified
Propane-1,2-diol 57-55-6	NOAEL=1,700 mg/kg	oral: feed	2 yearsdaily	rat	not specified
Propane-1,2-diol 57-55-6	NOAEL=1000 mg/m3	inhalation	90 d6 h/d, 5 d/w	rat	not specified
α, α-dimethylbenzyl hydroperoxide 80-15-9		inhalation: aerosol	6 h/d5 d/w	rat	not specified
maleic acid 110-16-7	NOAEL=>= 40 mg/kg	oral: feed	90 ddaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
methacrylic acid 79-41-4		inhalation	90 d6 h/d, 5 d/w	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)

**SECTION 12.** 

**ECOLOGICAL INFORMATION** 

General ecological information:

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

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Ecotoxicity:

H401 Toxic to aquatic life, H412 Harmful to aquatic life with long lasting effects.

## Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Tetramethylene dimethacrylate 2082-81-7	LC50	32.5 mg/l	Fish	48 h		DIN 38412-15
Tetramethylene dimethacrylate 2082-81-7	EC50	9.79 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth
Tetramethylene dimethacrylate 2082-81-7	NOEC	2.11 mg/l	Algae	72 h	Desmodesmus subspicatus	Inhibition Test) OECD Guideline 201 (Alga, Growth
Tetramethylene dimethacrylate 2082-81-7	NOEC	20 mg/l	Bacteria	28 d	activated sludge, domestic	Inhibition Test) not specified
2,4,6-Triallyloxy-1,3,5- triazine	LC50	4,36 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute
101-37-1 2,4,6-Triallyloxy-1,3,5- triazine	EC50	19.4 mg/l	Daphnia	48 h	Daphnia magna	Toxicity Test) OECD Guideline 202 (Daphnia sp.
101-37-1						Acute Immobilisation
2,4,6-Triallyloxy-1,3,5- triazine 101-37-1	EC0	5 mg/l	Bacteria	3 h		Test) OECD Guideline 209 (Activated Sludge, Respiratio
2-[[2,2-bis[[(1- oxoallyl)oxy]methyl]butoxy] methyl]-2-ethyl-1,3- propanediyl diacrylate	LC50	1.2 mg/l	Fish	96 h	Cyprinus carpio	Inhibition Test) OECD Guideline 203 (Fish, Acute Toxicity Test)
94108-97-1 2-[[2,2-bis[[(1- oxoallyl)oxy]methyl]butoxy] methyl]-2-ethyl-1,3- propanediyl diacrylate	EC50	> 10 - 100 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation
94108-97-1 2-[[2,2-bis[[(1- oxoallyl)oxy]methyl]butoxy] methyl]-2-ethyl-1,3- propanediyi diacrylate	EC50	> 12 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	Test) OECD Guideline 201 (Alga, Growt Inhibition Test)
94108-97-1 2-[[2,2-bis[[(1- oxoallyl)oxy]methyl]butoxy] methyl]-2-ethyl-1,3- propanediyl diacrylate 94108-97-1	NOEC	> 0.1 - 1 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	LC50	> 10,000 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	EL50	> 10,000 mg/l	Daphnia	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation
Silane, dichlorodimethyl-, reaction products with silica	EC50	> 173 mg/l	Algae	72 h	Desmodesmus subspicatus	Test) OECD Guideline 201 (Alga, Growtl
68611-44-9 Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	EC50	> 2,500 mg/l	Bacteria	3 h	activated sludge of a predominantly domestic sewage	Sludge, Respiratio
Ethene, homopolymer 9002-88-4	LC50	> 100 mg/l	Fish	96 h	Leuciscus idus	Inhibition Test) OECD Guideline 203 (Fish, Acute
Ethene, homopolymer 9002-88-4	EC0	> 1,000 mg/l	Bacteria	3 h	not specified	Toxicity Test) OECD Guideline 209 (Activated Sludge, Respiratio
						Inhibition Test)

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Propane-1,2-diol	LC50	51,600 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline
57 <b>-</b> 55-6						203 (Fish, Acute Toxicity Test)
Propane-1,2-diol 57-55-6	EC50	18,340 mg/l	Daphnia	48 h	Ceriodaphnia dubia	other guideline;
Propane-1,2-diol 57-55-6	EC50	24,200 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Propane-1,2-diol 57-55-6	NOEC	15,000 mg/l	Algae	14 d	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Propane-1,2-diol 57-55-6	EC50	> 1,000 mg/l	Bacteria	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration
α, α-dimethylbenzyl hydroperoxide	LC50	3.9 mg/l	Fish	96 h	Oncorhynchus mykiss	Inhibition Test) OECD Guideline 203 (Fish, Acute
80-15-9 α, α-dimethylbenzyl hydroperoxide 80-15-9	EC50	18.84 mg/l	Daphnia	48 h	Daphnia magna	Toxicity Test) OECD Guideline 202 (Daphnia sp. Acute Immobilisation
α, α-dimethylbenzyl	EC50	3.1 mg/l	Algae	72 h	Desmodesmus subspicatus	Test) OECD Guideline
hydroperoxide 80-15-9		J			(reported as Scenedesmus subspicatus)	201 (Alga, Growth Inhibition Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	NOEC	1 mg/l	Algae	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
α, α-dimethylbenzyl hydroperoxide	EC10	70 mg/l	Bacteria	30 min	not specified	not specified
80-15-9 maleic acid	LC50	> 245 mg/l	Fish	48 h	Leuciscus idus	DIN 38412-15
110-16-7 maleic acid 110-16-7	EC50	42,81 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp.
						Acute Immebilisation Test)
maleic acid 110-16-7	EC50	74,35 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth
maleic acid 110-16-7	EC10	11.8 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	Inhibition Test) OECD Guideline 201 (Alga, Growth
maleic acid 110-16-7	EC10	44.6 mg/l	Bacteria	18 h	Pseudomonas putida	Inhibition Test) DIN 38412, part 8 (Pseudomonas
methacrylic acid	LC50	85 mg/l	Fish	96 h	Salmo gairdneri (new name:	Zellvermehrungshe mm-Test) EPA OTS 797.1400
79-41-4	LC30	rgm co	FISH	90 11	Oncorhynchus mykiss)	(Fish Acute Toxicity Test)
 methacrylic acid 79-41-4	NOEC	10 mg/l	Fish	35 d	Danio rerio	OECD Guideline 210 (fish early lite
methacrylic acid 79-41-4	EC50	> 130 mg/I	Daphnia	48 h	Daphnia magna	stage toxicity test) EPA OTS 797.1300 (Aquatic
		a.				Invertebrate Acute Toxicity Test, Freshwater
methacrylic acid 79-41-4	NOEC	8.2 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	Daphnids) OECD Guideline 201 (Alga, Growth Inhibition Test)
methacrylic acid 79-41-4	EC50	45 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella	OECD Guideline 201 (Alga, Growth
methacrylic acid 79-41-4	EC10	100 mg/l	Bacteria	17 h	subcapitata) Pseudomonas putida	Inhibition Test) DIN 38412, part 8 (Pseudomonas Zellvermehrungshe
						mm-Test)

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### Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Tetramethylene dimethacrylate 2082-81-7	readily biodegradable	aerobic	84 %	OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels (Headspace Test)
2,4,6-Triallyloxy-1,3,5- triazine 101-37-1		aerobic	7 - 9 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
2-[[2,2-bis[[(1- oxoallyl)oxy]methyl]butoxy] methyl]-2-ethyl-1,3- propanediyl diacrylate 94108-97-1		aerobic	4 ~ 14 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Ethene, homopolymer 9002-88-4	not readily biodegradable.	aerobic	1 %	ISO 10708 (BODIS-Test)
Propane-1,2-diol 57-55-6	readily biodegradable	aerobic	> 81.7 - 100 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	not readily biodegradable.	aerobic	3 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
maleic acid 110-16-7	readily biodegradable	aerobic	97.08 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
methacrylic acid 79-41-4	readily biodegradable	aerobic	86 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
methacrylic acid 79-41-4	inherently biodegradable	aerobic	100 %	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)

### Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Tetramethylene dimethacrylate 2082-81-7	3.1					OECD Guideline 117 (Partition Coefficient (n- octanol / water), HPLC Method)
2,4,6-Triallyloxy-1,3,5- triazine	2.8				20 °C	not specified
2-[[2,2-bis[[(1- oxoallyl)oxy]methyl]butoxy] methyl]-2-ethyl-1,3- propanediyl diacrylate 94108-97-1	4.14				30 °C	OECD Guideline 117 (Partition Coefficient (noctanol / water), HPLC Method)
Propane-1,2-diol 57-55-6	-1.07				20.5 °C	EU Method A.8 (Partition Coefficient)
α, α-dimethylbenzyl hydroperoxide 80-15-9		9.1		calculation		OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	1.6				25 °C	OECD Guideline 117 (Partition Coefficient (noctanol / water), HPLC Method)
maleic acid 110-16-7	-1.3				20 °C	OECD Guideline 107 (Partition Coefficient (noctanol / water), Shake Flask Method)
Acetic acid, 2- phenylhydrazide 114-83-0	0,74					not specified
methacrylic acid 79-41-4	0.93				22 °C	OECD Guideline 107 (Partition Coefficient (n- octanol / water), Shake Flask Method)

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**SECTION 13.** 

DISPOSAL CONSIDERATIONS

Waste disposal of product:

Dispose of in accordance with local and national regulations.

Disposal for uncleaned package:

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

#### **SECTION 14.**

#### TRANSPORT INFORMATION

#### Dangerous Goods information:

#### Land Transport:

Not classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

#### Marine transport IMDG:

Not dangerous goods

#### Air transport IATA:

Not dangerous goods

#### SECTION 15.

### REGULATORY INFORMATION

### New Zealand regulatory information:

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).

**HSNO Approval Number:** 

HSR002670

Site and Storage:

Refer to the site and storage requirements for this Group Standard. Refer to the HSNO controls for approved hazardous substances.

NZIoC:

All components are listed or are exempt from listing on the New Zealand Inventory of

Chemicals (NZIoC)

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#### **SECTION 16.**

#### OTHER INFORMATION

Abbreviations/acronyms:

STEL - Short term exposure limit

TWA - Time weighted average

HSNO - Hazardous Substances and New Organisms

GHS: Globally Harmonized System CAS: Chemical Abstracts Service LD 50: Lethal Dose 50%

LC 50: Lethal Concentration 50%

IMDG: International Maritime Dangerous Goods code

IATA-DGR: International Air Transport Association - Dangerous Goods Regulations

Reason for issue:

Reviewed SDS. Reissued with new date. involved chapters: 1 - 16

Date of previous issue:

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Disclaimer:

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