



## Safety Data Sheet

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LOCTITE 577 MEDIUM STRENGTH THREAD SEALANT  
known as Loctite 577 PIPE SEALANT 250ML

SDS No. : 168431  
V001.3

Revision: 29.06.2022  
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### SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

|                               |                                                                                                                  |
|-------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Product name:</b>          | LOCTITE 577 MEDIUM STRENGTH THREAD SEALANT known as Loctite 577 PIPE SEALANT 250ML                               |
| <b>Intended use:</b>          | Anaerobic Sealant                                                                                                |
| <b>Supplier:</b>              | Henkel New Zealand Ltd<br>2 Allens Rd<br>East Tamaki<br>Auckland, 2013<br>New Zealand<br>Phone: +64 (9) 272-6710 |
| <b>Emergency information:</b> | 24 HOUR EMERGENCY CONTACT NUMBER 0800 243 622                                                                    |

### 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 sensitizer

**Hazard Category**  
Category 1

#### Hazard pictogram:



#### Signal word:

Warning

#### Hazard statement(s):

H317 May cause an allergic skin reaction.

#### Precautionary Statement(s):

##### Prevention:

P261 Avoid breathing mist/vapours.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves.

##### Response:

P302+P352 IF ON SKIN: Wash with plenty of water.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.

##### 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:** Anaerobic Sealant

**Identity of ingredients:**

| Chemical ingredients                              | CAS-No.     | Proportion  |
|---------------------------------------------------|-------------|-------------|
| dodecyl methacrylate                              | 142-90-5    | 1- < 10 %   |
| Ethene, homopolymer                               | 9002-88-4   | 1- < 10 %   |
| Silica, amorphous, fumed, cryst.-free             | 112945-52-5 | 1- < 10 %   |
| Tetradecyl methacrylate                           | 2549-53-3   | 1- < 10 %   |
| Hexadecyl methacrylate                            | 2495-27-4   | 1- < 10 %   |
| Acetic acid, 2-phenylhydrazide                    | 114-83-0    | 0.1- < 1 %  |
| maleic acid                                       | 110-16-7    | 0.1- < 1 %  |
| $\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide | 80-15-9     | 0.1- < 1 %  |
| methyl methacrylate                               | 80-62-6     | 0.1- < 1 %  |
| non hazardous ingredients~                        |             | 30- <= 60 % |

### SECTION 4 FIRST AID MEASURES

**Ingestion:** Do not induce vomiting.  
Have victim rinse mouth thoroughly with water.  
Seek medical advice, symptomatic treatment.

**Skin:** Rinse with running water and soap.  
Remove contaminated clothing and footwear.  
If skin irritation persists, call a physician.

**Eyes:** Wash with plenty of water immediately and continue for several minutes, holding eyelid open. Consult a doctor.

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

**First Aid facilities:** Eye wash  
Normal washroom facilities

**Medical attention and special treatment:** Treat symptomatically.

### SECTION 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media:** Carbon dioxide, foam, powder

**Improper extinguishing media:** Water spray jet

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|                                                        |                                                                                                                            |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Decomposition products in case of fire:</b>         | Thermal decomposition may release toxic and/or hazardous gases.<br>Carbon dioxide.<br>carbon monoxide<br>Irritating fumes. |
| <b>Particular danger in case of fire:</b>              | In case of fire, keep containers cool with water spray.                                                                    |
| <b>Special protective equipment for fire-fighters:</b> | Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).<br>Wear full protective clothing.   |

## SECTION 6. ACCIDENTAL RELEASE MEASURES

|                                   |                                                                                                                                                                                     |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions:</b>      | Avoid skin and eye contact.<br>Ensure adequate ventilation.<br>Wear adequate personal protective clothing and equipment.<br>Keep unnecessary personnel away.                        |
| <b>Environmental precautions:</b> | Do not allow spill to enter sewage systems or open bodies of water.                                                                                                                 |
| <b>Clean-up methods:</b>          | For small spills wipe up with paper towel and place in container for disposal.<br>For large spills absorb onto inert absorbent material and place in sealed container for disposal. |

## SECTION 7. HANDLING AND STORAGE

|                                           |                                                                                                                                                                                        |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Precautions for safe handling:</b>     | Use only in well-ventilated areas.<br>Avoid breathing vapors or mists of this product.<br>Avoid skin and eye contact.<br>Wear suitable protective clothing, safety glasses and gloves. |
| <b>Conditions for safe storage:</b>       | 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.                |
| <b>Unsuitable materials with product:</b> | plastic                                                                                                                                                                                |

## 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 9002-88-4                                                    | Respirable dust. |           | 3           | ~       | ~          | ~            |
| PARTICULATES NOT OTHERWISE CLASSIFIED, INHALABLE DUST                                                               | Inhalable dust.  |           | 10          | ~       | ~          | ~            |
| Particulates not otherwise classified, respirable dust<br>Respirable dust (not otherwise classified)<br>112945-52-5 | Respirable dust. |           | 3           | ~       | ~          | ~            |
| Particulates not otherwise classified, inhalable dust<br>Inhalable dust (not otherwise classified)                  | Inhalable dust.  |           | 10          | ~       | ~          | ~            |
| METHYL METHACRYLATE 80-62-6                                                                                         |                  | 50        | 208         | ~       | ~          | ~            |
| METHYL METHACRYLATE                                                                                                 |                  | ~         | ~           | ~       | 100        | 416          |

### Biological Exposure Indices:

None

### Engineering controls:

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

### Eye protection:

Safety goggles or safety glasses with side shields.

### Skin protection:

Use impermeable gloves and protective clothing as necessary to prevent skin contact.

Neoprene gloves.

Butyl rubber gloves.

Natural rubber gloves.

### Respiratory protection:

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:

dark yellow  
paste

### Odor:

mild

### pH:

3 - 6

### Specific gravity:

1.15 - 1.2

### Boiling point:

> 149 °C (> 300.2 °F)

### Flash point:

> 100 °C (> 212 °F)

(Pensky Martens closed cup)

### Vapor pressure:

< 5 mm hg

(; 27 °C (80.6 °F); 27 °C (80.6 °F))

< 5 mm hg

### Density:

1.15 - 1.20 g/cm3

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|                                                                                                                                                                |                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <b>Solubility in water:</b>                                                                                                                                    | Slightly soluble      |
| <b>Viscosity (dynamic):</b><br>(Brookfield; Instrument: RVT;<br>speed of rotation: 20 min-1;<br>Spindle No: 6; Method: ;; LCT<br>STM 10; Viscosity Brookfield) | 16,000 - 33,000 mPa.s |
| <b>VOC content:</b><br>(2010/75/EC)                                                                                                                            | < 3 %                 |

## SECTION 10. STABILITY AND REACTIVITY

|                                          |                                                                                                                                   |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>Conditions to avoid:</b>              | Extremes of temperature.                                                                                                          |
| <b>Incompatible materials:</b>           | Reacts with strong oxidants.<br>Will attack some forms of plastic, rubber, and coatings.                                          |
| <b>Hazardous decomposition products:</b> | Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.<br><br>carbon monoxide<br>carbon dioxide |
| <b>Hazardous polymerization:</b>         | Will not occur.                                                                                                                   |

## SECTION 11 TOXICOLOGICAL INFORMATION

**Health Effects:**

**Ingestion:**

Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.  
Not expected to be harmful by ingestion.

**Skin:**

Causes skin irritation.  
Contact with liquid may produce severe skin irritation including redness and inflammation.  
May cause allergic skin reaction.  
May cause skin irritation.

**Eyes:**

Causes serious eye irritation.  
Symptoms may include severe irritation, pain, tearing, blurred vision.  
Contact with eyes will cause irritation.

**Inhalation:**

This product is irritating to the respiratory system.  
Inhalation of product mist may cause irritation of the nose, throat, and respiratory tract.  
May cause respiratory tract irritation.

**Acute toxicity:**

| Hazardous components<br>CAS-No.                                 | Value<br>type                                                                                                              | Value                                         | Route of<br>application      | Exposure<br>time | Species              | Method                                                                                                        |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|------------------------------|------------------|----------------------|---------------------------------------------------------------------------------------------------------------|
| dodecyl methacrylate<br>142-90-5                                | LD50<br>LD50<br>Acute<br>toxicity<br>estimate<br>(ATE)                                                                     | > 5,000 mg/kg<br>> 3,000 mg/kg<br>3,001 mg/kg | oral<br><br>dermal<br>dermal |                  | rat<br>rabbit        | OECD Guideline 401 (Acute<br>Oral Toxicity)<br>other guideline:<br>Expert judgement                           |
| Ethene, homopolymer<br>9002-88-4                                | Acute<br>toxicity<br>estimate<br>(ATE)<br>Acute<br>toxicity<br>estimate<br>(ATE)<br>Acute<br>toxicity<br>estimate<br>(ATE) | > 5,000 mg/kg<br>> 5 mg/l<br>> 5,000 mg/kg    | oral<br>inhalation<br>dermal | 4 h              |                      | Expert judgement<br>Expert judgement<br>Expert judgement                                                      |
| Silica, amorphous, fumed,<br>cryst.-free<br>112945-52-5         | LD50<br>LC0<br>LD50                                                                                                        | > 5,000 mg/kg<br>0.139 mg/l<br>> 2,000 mg/kg  | oral<br>inhalation<br>dermal | 4 h              | rat<br>rat<br>rabbit | OECD Guideline 401 (Acute<br>Oral Toxicity)<br>not specified<br>OECD Guideline 402 (Acute<br>Dermal Toxicity) |
| Acetic acid, 2-<br>phenylhydrazide<br>114-83-0                  | LD50                                                                                                                       | 270 mg/kg                                     | oral                         |                  | rat                  | not specified                                                                                                 |
| maleic acid<br>110-16-7                                         | LD50<br>LD50                                                                                                               | 708 mg/kg<br>1,560 mg/kg                      | oral<br><br>dermal           |                  | rat<br>rabbit        | not specified<br>not specified                                                                                |
| $\alpha$ , $\alpha$ -dimethylbenzyl<br>hydroperoxide<br>80-15-9 | LD50<br>LC50<br>Acute<br>toxicity<br>estimate<br>(ATE)                                                                     | 382 mg/kg<br>1.370 mg/l<br>1,100 mg/kg        | oral<br>inhalation<br>dermal | 4 h              | rat<br>rat           | other guideline:<br>not specified<br>Expert judgement                                                         |
| methyl methacrylate<br>80-62-6                                  | LD50<br>LC50<br>LD50                                                                                                       | 9,400 mg/kg<br>29.8 mg/l<br>> 5,000 mg/kg     | oral<br>inhalation<br>dermal | 4 h              | rat<br>rat<br>rabbit | not specified<br>not specified<br>not specified                                                               |

**Skin corrosion/irritation:**

| Hazardous components<br>CAS-No.                                 | Result         | Exposure<br>time | Species | Method                                                      |
|-----------------------------------------------------------------|----------------|------------------|---------|-------------------------------------------------------------|
| Silica, amorphous, fumed,<br>cryst.-free<br>112945-52-5         | not irritating | 4 h              | rabbit  | OECD Guideline 404 (Acute<br>Dermal Irritation / Corrosion) |
| maleic acid<br>110-16-7                                         | irritating     | 24 h             | human   | Patch Test                                                  |
| $\alpha$ , $\alpha$ -dimethylbenzyl<br>hydroperoxide<br>80-15-9 | corrosive      |                  | rabbit  | Draize Test                                                 |

**Serious eye damage/irritation:**

| Hazardous components<br>CAS-No.                         | Result            | Exposure<br>time | Species | Method                                                   |
|---------------------------------------------------------|-------------------|------------------|---------|----------------------------------------------------------|
| Ethene, homopolymer<br>9002-88-4                        | not irritating    | 24 h             | rabbit  | FDA Guideline                                            |
| Silica, amorphous, fumed,<br>cryst.-free<br>112945-52-5 | not irritating    |                  | rabbit  | OECD Guideline 405 (Acute<br>Eye Irritation / Corrosion) |
| maleic acid<br>110-16-7                                 | highly irritating |                  | rabbit  | OECD Guideline 405 (Acute<br>Eye Irritation / Corrosion) |

**Respiratory or skin sensitization:**

| Hazardous components<br>CAS-No.  | Result          | Test type                                      | Species    | Method                                                                |
|----------------------------------|-----------------|------------------------------------------------|------------|-----------------------------------------------------------------------|
| Ethene, homopolymer<br>9002-88-4 | not sensitising | Mouse<br>local<br>lymphnode<br>assay<br>(LLNA) | mouse      | OECD Guideline 429 (Skin<br>Sensitisation: Local Lymph<br>Node Assay) |
| maleic acid<br>110-16-7          | sensitising     | Mouse<br>local<br>lymphnode<br>assay<br>(LLNA) | mouse      | OECD Guideline 429 (Skin<br>Sensitisation: Local Lymph<br>Node Assay) |
| maleic acid<br>110-16-7          | sensitising     | Mouse<br>local<br>lymphnode<br>assay<br>(LLNA) | guinea pig | OECD Guideline 406 (Skin<br>Sensitisation)                            |
| methyl methacrylate<br>80-62-6   | sensitising     | Mouse<br>local<br>lymphnode<br>assay<br>(LLNA) | mouse      | OECD Guideline 429 (Skin<br>Sensitisation: Local Lymph<br>Node Assay) |

**Germ cell mutagenicity:**

| Hazardous components<br>CAS-No.                                 | Result                           | Type of study /<br>Route of<br>administration                                                                                                                                                                      | Metabolic<br>activation /<br>Exposure time | Species | Method                                                                             |
|-----------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------|------------------------------------------------------------------------------------|
| Ethene, homopolymer<br>9002-88-4                                | negative                         | bacterial reverse<br>mutation assay (e.g<br>Ames test)                                                                                                                                                             | with and without                           |         | Ames Test                                                                          |
| Silica, amorphous, fumed,<br>cryst.-free<br>112945-52-5         | negative<br>negative<br>negative | bacterial reverse<br>mutation assay (e.g<br>Ames test)<br>in vitro mammalian<br>chromosome<br>aberration test<br>DNA damage and<br>repair assay,<br>unscheduled DNA<br>synthesis in<br>mammalian cells in<br>vitro |                                            |         | not specified<br>not specified<br>not specified                                    |
| maleic acid<br>110-16-7                                         | negative<br>negative             | bacterial reverse<br>mutation assay (e.g<br>Ames test)<br>mammalian cell<br>gene mutation assay                                                                                                                    | no data<br>with and without                |         | Ames Test<br>OECD Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test) |
| $\alpha$ , $\alpha$ -dimethylbenzyl<br>hydroperoxide<br>80-15-9 | positive                         | bacterial reverse<br>mutation assay (e.g<br>Ames test)                                                                                                                                                             | without                                    |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)                        |
| $\alpha$ , $\alpha$ -dimethylbenzyl<br>hydroperoxide<br>80-15-9 | negative                         | dermal                                                                                                                                                                                                             |                                            | mouse   | not specified                                                                      |
| methyl methacrylate<br>80-62-6                                  | negative                         | bacterial reverse<br>mutation assay (e.g<br>Ames test)                                                                                                                                                             | with and without                           |         | not specified                                                                      |

**Repeated dose toxicity:**

| Hazardous components<br>CAS-No.                                 | Result                    | Route of<br>application | Exposure time /<br>Frequency of<br>treatment | Species | Method                                                                   |
|-----------------------------------------------------------------|---------------------------|-------------------------|----------------------------------------------|---------|--------------------------------------------------------------------------|
| maleic acid<br>110-16-7                                         | NOAEL= $\geq$ 40<br>mg/kg | oral: feed              | 90 ddaily                                    | rat     | OECD Guideline 408<br>(Repeated Dose 90-Day Oral<br>Toxicity in Rodents) |
| $\alpha$ , $\alpha$ -dimethylbenzyl<br>hydroperoxide<br>80-15-9 |                           | inhalation:<br>aerosol  | 6 h/d5 d/w                                   | rat     | not specified                                                            |
| methyl methacrylate<br>80-62-6                                  | LOAEL=2000 ppm            | inhalation              | 14 weeks6 hrs/day, 5<br>days/wk              | mouse   | Dose Range Finding Study                                                 |
| methyl methacrylate<br>80-62-6                                  | NOAEL=1000 ppm            | inhalation              | 14 weeks6 hrs/day, 5<br>days/wk              | mouse   | Dose Range Finding Study                                                 |

**SECTION 12. ECOLOGICAL INFORMATION**

**General ecological information:**

Do not empty into drains / surface water / ground water., Cured Loctite products are typical polymers and do not pose any immediate environmental hazards.  
Cured Loctite products are typical polymers and do not pose any immediate environmental hazards., Do not empty into drains, soil or bodies of water.

**Toxicity:**

| Hazardous components<br>CAS-No.                                 | Value<br>type | Value                          | Acute<br>Toxicity<br>Study | Exposure<br>time | Species                                                             | Method                                                                                          |
|-----------------------------------------------------------------|---------------|--------------------------------|----------------------------|------------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| dodecyl methacrylate<br>142-90-5                                | LC50          | Toxicity > Water<br>solubility | Fish                       | 96 h             | Danio rerio                                                         | OECD Guideline<br>203 (Fish, Acute<br>Toxicity Test)                                            |
| dodecyl methacrylate<br>142-90-5                                | EC50          | Toxicity > Water<br>solubility | Algae                      | 72 h             | Desmodesmus subspicatus                                             | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)                                         |
| dodecyl methacrylate<br>142-90-5                                | NOEC          | Toxicity > Water<br>solubility | Algae                      | 72 h             | Desmodesmus subspicatus                                             | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)                                         |
| Ethene, homopolymer<br>9002-88-4                                | LC50          | > 100 mg/l                     | Fish                       | 96 h             | Leuciscus idus                                                      | OECD Guideline<br>203 (Fish, Acute<br>Toxicity Test)                                            |
| Ethene, homopolymer<br>9002-88-4                                | EC0           | > 1,000 mg/l                   | Bacteria                   | 3 h              | not specified                                                       | OECD Guideline<br>209 (Activated<br>Sludge, Respiration<br>Inhibition Test)                     |
| Silica, amorphous, fumed,<br>cryst.-free<br>112945-52-5         | LC50          | > 10,000 mg/l                  | Fish                       | 96 h             | Brachydanio rerio (new name:<br>Danio rerio)                        | OECD Guideline<br>203 (Fish, Acute<br>Toxicity Test)                                            |
| maleic acid<br>110-16-7                                         | LC50          | > 245 mg/l                     | Fish                       | 48 h             | Leuciscus idus                                                      | DIN 38412-15                                                                                    |
| maleic acid<br>110-16-7                                         | EC50          | 42.81 mg/l                     | Daphnia                    | 48 h             | Daphnia magna                                                       | OECD Guideline<br>202 (Daphnia sp.<br>Acute<br>Immobilisation<br>Test)                          |
| maleic acid<br>110-16-7                                         | EC50          | 74.35 mg/l                     | Algae                      | 72 h             | Pseudokirchneriella subcapitata                                     | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)                                         |
| maleic acid<br>110-16-7                                         | EC10          | 11.8 mg/l                      | Algae                      | 72 h             | Pseudokirchneriella subcapitata                                     | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)                                         |
| maleic acid<br>110-16-7                                         | EC10          | 44.6 mg/l                      | Bacteria                   | 18 h             | Pseudomonas putida                                                  | DIN 38412, part 8<br>(Pseudomonas<br>Zellvermehrungshe-<br>mm-Test)                             |
| $\alpha$ , $\alpha$ -dimethylbenzyl<br>hydroperoxide<br>80-15-9 | LC50          | 3.9 mg/l                       | Fish                       | 96 h             | Oncorhynchus mykiss                                                 | OECD Guideline<br>203 (Fish, Acute<br>Toxicity Test)                                            |
| $\alpha$ , $\alpha$ -dimethylbenzyl<br>hydroperoxide<br>80-15-9 | EC50          | 18.84 mg/l                     | Daphnia                    | 48 h             | Daphnia magna                                                       | OECD Guideline<br>202 (Daphnia sp.<br>Acute<br>Immobilisation<br>Test)                          |
| $\alpha$ , $\alpha$ -dimethylbenzyl<br>hydroperoxide<br>80-15-9 | EC50          | 3.1 mg/l                       | Algae                      | 72 h             | Desmodesmus subspicatus<br>(reported as Scenedesmus<br>subspicatus) | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)                                         |
| $\alpha$ , $\alpha$ -dimethylbenzyl<br>hydroperoxide<br>80-15-9 | NOEC          | 1 mg/l                         | Algae                      | 72 h             | Desmodesmus subspicatus<br>(reported as Scenedesmus<br>subspicatus) | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)                                         |
| $\alpha$ , $\alpha$ -dimethylbenzyl<br>hydroperoxide<br>80-15-9 | EC10          | 70 mg/l                        | Bacteria                   | 30 min           | not specified                                                       | not specified                                                                                   |
| methyl methacrylate<br>80-62-6                                  | LC50          | 350 mg/l                       | Fish                       | 96 h             | Leuciscus idus                                                      | OECD Guideline<br>203 (Fish, Acute<br>Toxicity Test)                                            |
| methyl methacrylate<br>80-62-6                                  | EC50          | 69 mg/l                        | Daphnia                    | 48 h             | Daphnia magna                                                       | EPA OTS<br>797.1300 (Aquatic<br>Invertebrate Acute<br>Toxicity Test,<br>Freshwater<br>Daphnids) |

|                                |      |                  |          |        |                                                                          |                                                                          |
|--------------------------------|------|------------------|----------|--------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
| methyl methacrylate<br>80-62-6 | EC50 | 170 mg/l         | Algae    | 96 h   | Selenastrum capricornutum<br>(new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test)                        |
| methyl methacrylate<br>80-62-6 | NOEC | 100 mg/l         | Algae    | 96 h   | Selenastrum capricornutum<br>(new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test)                        |
| methyl methacrylate<br>80-62-6 | EC20 | > 150 - 200 mg/l | Bacteria | 30 min | activated sludge, domestic                                               | ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge) |

**Persistence and degradability:**

| Hazardous components<br>CAS-No.                              | Result                     | Route of application | Degradability | Method                                                                |
|--------------------------------------------------------------|----------------------------|----------------------|---------------|-----------------------------------------------------------------------|
| dodecyl methacrylate<br>142-90-5                             | readily biodegradable      | aerobic              | 88.5 %        | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I)) |
| Ethene, homopolymer<br>9002-88-4                             | not readily biodegradable. | aerobic              | 1 %           | ISO 10708 (BODIS-Test)                                                |
| Tetradecyl methacrylate<br>2549-53-3                         | readily biodegradable      | aerobic              | 76.6 %        | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I)) |
| Hexadecyl methacrylate<br>2495-27-4                          | readily biodegradable      | aerobic              | 76.6 %        | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I)) |
| maleic acid<br>110-16-7                                      | readily biodegradable      | aerobic              | 97.08 %       | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)     |
| $\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide<br>80-15-9 | not readily biodegradable. | aerobic              | 3 %           | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)     |
| methyl methacrylate<br>80-62-6                               | readily biodegradable      | aerobic              | 94 %          | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I)) |

**Bioaccumulative potential / Mobility in soil:**

| Hazardous components<br>CAS-No.                              | LogPow | Bioconcentration factor (BCF) | Exposure time | Species     | Temperature | Method                                                                             |
|--------------------------------------------------------------|--------|-------------------------------|---------------|-------------|-------------|------------------------------------------------------------------------------------|
| dodecyl methacrylate<br>142-90-5                             |        | 37                            | 56 h          | Danio rerio |             | OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)                      |
| dodecyl methacrylate<br>142-90-5                             | 6.68   |                               |               |             | 20 °C       | QSAR (Quantitative Structure Activity Relationship)                                |
| Acetic acid, 2-phenylhydrazide<br>114-83-0                   | 0.74   |                               |               |             |             | not specified                                                                      |
| maleic acid<br>110-16-7                                      | -1.3   |                               |               |             | 20 °C       | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| $\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide<br>80-15-9 |        | 9.1                           |               | calculation |             | OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)                      |
| $\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide<br>80-15-9 | 1.6    |                               |               |             | 25 °C       | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)        |
| methyl methacrylate<br>80-62-6                               | 1.38   |                               |               |             | 20 °C       | other guideline:                                                                   |

**SECTION 13. DISPOSAL CONSIDERATIONS****Waste disposal of product:**

Dispose of in accordance with local and national regulations.

**Recommended cleanser:** Solvent naphtha

**Disposal for uncleaned package:** 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

**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:** The hazardous components of this product are listed on the New Zealand Inventory of chemicals (NZIoC).

#### 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

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The percentage weight (% w/w) of ingredients is not to be taken as a specification guaranteed by Henkel New Zealand Limited, but only as an approximate guide to the content of hazardous ingredients in the material. The information contained herein does not constitute a guarantee by Henkel New Zealand Limited concerning the properties of the material.

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