



## Safety Data Sheet

Page 1 of 11

LOCTITE 660

SDS No. : 164196

V001.2

Revision: 02.09.2018

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### SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product name:** LOCTITE 660

**Intended use:** Anaerobic Adhesive

**Supplier:**

Henkel New Zealand Ltd  
2 Allens Rd  
Auckland, 2013  
New Zealand

Phone: +64 (9) 272-6710

**Emergency information:** 24 HOUR EMERGENCY CONTACT NUMBER 0800 243 622

### SECTION 2 HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

Not Classified as Dangerous Goods according to NZS 5433: 2012 and the Land Transport Rule: Dangerous Goods 2005.

**HSNO Classification:**

6.3A Class 6 - Toxicity, Subclass 6.3 - Skin irritant, Hazard Classification A

Class 6 - Toxicity, Subclass 6.5 - Sensitisation, Hazard Classification B

Class 6 - Toxicity, Subclass 6.4 - Eye irritant, Hazard Classification A

**GHS Classification:**

**Hazard Class**

Skin irritation

Serious eye irritation

Skin sensitizer

Target Organ Systemic Toxicant -

Single exposure

**Hazard Category**

Category 2

Category 2A

Category 1

Category 3

**Target organ**

respiratory tract irritation

**Hazard pictogram:**



**Signal word:**

Warning

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hazard statement(s):</b>        | H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.<br>H319 Causes serious eye irritation.<br>H335 May cause respiratory irritation.                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Precautionary Statement(s):</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Prevention:</b>                 | P261 Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P264 Wash hands thoroughly after handling.<br>P271 Use only outdoors or in a well-ventilated area.<br>P272 Contaminated work clothing should not be allowed out of the workplace.<br>P280 Wear protective gloves/protective clothing/eye protection/face protection.                                                                                                                                                                                                                                            |
| <b>Response:</b>                   | P302+P352 IF ON SKIN: Wash with plenty of water.<br>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.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.<br>P337+P313 If eye irritation persists: Get medical advice/attention.<br>P362 Take off contaminated clothing. |
| <b>Storage:</b>                    | P403+P233 Store in a well-ventilated place. Keep container tightly closed.<br>P405 Store locked up.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Disposal:</b>                   | 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 |
|---------------------------------------------------|------------|------------|
| Methacrylic acid, monoester with propane-1,2-diol | 27813-02-1 | 30- < 60 % |
| Cumene hydroperoxide                              | 80-15-9    | < 3 %      |
| Maleic acid                                       | 110-16-7   | < 1 %      |
| Methacrylic acid                                  | 79-41-4    | < 1 %      |
| Cumene                                            | 98-82-8    | < 0.5 %    |
| non hazardous ingredients~                        |            | 30- < 80 % |

### SECTION 4 FIRST AID MEASURES

|                   |                                                                                                       |
|-------------------|-------------------------------------------------------------------------------------------------------|
| <b>Ingestion:</b> | Rinse mouth, do not induce vomiting, consult a doctor.<br>Seek medical advice.                        |
| <b>Skin:</b>      | Rinse with running water and soap.<br>Seek medical advice.                                            |
| <b>Eyes:</b>      | Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary. |

**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 and supportively.

## SECTION 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media:** Foam, dry chemical or carbon dioxide.

**Decomposition products in case of fire:** Oxides of carbon.  
Oxides of sulfur.  
Oxides of nitrogen.  
Irritating organic vapours.

**Particular danger in case of fire:** None

**Special protective equipment for fire-fighters:** Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Avoid skin and eye contact.  
See advice in section 8

**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.  
Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.

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

## 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) |
|----------------------------------|------------------|-----------|-------------|---------|------------|--------------|
| METHACRYLIC ACID<br>79-41-4      |                  | 20        | 70          | -       | -          | -            |
| CUMENE<br>98-82-8                |                  | -         | -           | -       | 75         | 375          |
| CUMENE                           |                  | 25        | 125         | -       | -          | -            |

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Engineering controls:</b>   | Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits.                                                                                                                                                                                                                                                                  |
| <b>Eye protection:</b>         | Wear protective glasses.                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Skin protection:</b>        | Wear suitable protective clothing.<br>Avoid skin-contact.<br><br>Nitrile rubber gloves should be worn.<br><br>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. |
| <b>Respiratory protection:</b> | Use only in well-ventilated areas.<br>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

|                                                                                                                                                          |                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| <b>Appearance:</b>                                                                                                                                       | grey<br>paste           |
| <b>Odor:</b>                                                                                                                                             | characteristic          |
| <b>Specific gravity:</b>                                                                                                                                 | 1.1                     |
| <b>Boiling point:</b>                                                                                                                                    | > 149 °C (> 300.2 °F)   |
| <b>Flash point:</b><br>(Tagliabue closed cup)                                                                                                            | > 93 °C (> 199.4 °F)    |
| <b>Vapor pressure:</b><br>(; 26 °C (78.8 °F))                                                                                                            | < 7 mbar                |
| <b>Density:</b>                                                                                                                                          | 1.098 g/cm <sup>3</sup> |
| <b>Solubility in water:</b>                                                                                                                              | Negligible              |
| <b>Viscosity (dynamic):</b><br>(; Instrument: HBT; speed of rotation: 5 min <sup>-1</sup> ; Spindle No: TB; Method: ;; LCT STM 10; Viscosity Brookfield) | 150,000 - 350,000 mPa.s |
| <b>VOC content:</b><br>(2010/75/EC)                                                                                                                      | < 3.00 %                |

## SECTION 10. STABILITY AND REACTIVITY

|                                          |                                                                                                                              |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability:</b>                        | Stable under recommended storage conditions.                                                                                 |
| <b>Incompatible materials:</b>           | Reacts with strong oxidants.                                                                                                 |
| <b>Hazardous decomposition products:</b> | May produce fumes when heated to decomposition. Fumes may contain carbon monoxide and other toxic fumes.                     |
| <b>Hazardous polymerization:</b>         | None under normal processing. Polymerization may occur at elevated temperature or in the presence of incompatible materials. |

**SECTION 11 TOXICOLOGICAL INFORMATION****Health Effects:****Ingestion:**

May be harmful if swallowed.

**Skin:**

Causes skin irritation.

**Eyes:**

May cause allergic skin reaction.

Causes serious eye damage.

**Inhalation:**

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                                            |
|------------------------------------------------------------------------|---------------|------------------------|-------------------------|------------------|---------|---------------------------------------------------|
| Methacrylic acid,<br>monoester with propane-<br>1,2-diol<br>27813-02-1 | LD50          | > 2,000 mg/kg          | oral                    |                  | rat     | OECD Guideline 401 (Acute<br>Oral Toxicity)       |
|                                                                        | LD50          | > 5,000 mg/kg          | dermal                  |                  | rabbit  | not specified                                     |
| Cumene hydroperoxide<br>80-15-9                                        | LD50          | 550 mg/kg              | oral                    |                  | rat     | not specified                                     |
|                                                                        | LD50          | 1,200 - 1,520<br>mg/kg | dermal                  |                  |         | not specified                                     |
| Maleic acid<br>110-16-7                                                | LD50          | 708 mg/kg              | oral                    |                  | rat     | not specified                                     |
|                                                                        | LD50          | 1,560 mg/kg            | dermal                  |                  | rabbit  | not specified                                     |
| Methacrylic acid<br>79-41-4                                            | LD50          | 1,320 mg/kg            | dermal                  |                  | rat     | OECD Guideline 401 (Acute<br>Oral Toxicity)       |
|                                                                        | LC50          | > 3.6 mg/l             | oral                    | 4 h              | rat     | OECD Guideline 403 (Acute<br>Inhalation Toxicity) |
|                                                                        | LD50          | 500 - 1,000<br>mg/kg   | inhalation              |                  | rabbit  | Dermal Toxicity Screening                         |
| Cumene<br>98-82-8                                                      | LD50          | 2,700 mg/kg            | dermal                  |                  | rat     | OECD Guideline 401 (Acute<br>Oral Toxicity)       |
|                                                                        | LC50          | 39 mg/l                | inhalation              | 4 h              | rat     | not specified                                     |
|                                                                        | LD50          | > 10,000 mg/kg         | dermal                  |                  | rabbit  | not specified                                     |

**Skin corrosion/irritation:**

| Hazardous components<br>CAS-No.                                        | Result         | Exposure<br>time | Species | Method                                                      |
|------------------------------------------------------------------------|----------------|------------------|---------|-------------------------------------------------------------|
| Methacrylic acid,<br>monoester with propane-<br>1,2-diol<br>27813-02-1 | not irritating | 24 h             | rabbit  | Draize Test                                                 |
| Cumene hydroperoxide<br>80-15-9                                        | corrosive      |                  | rabbit  | Draize Test                                                 |
| Maleic acid<br>110-16-7                                                | irritating     | 24 h             | human   | Patch Test                                                  |
| Methacrylic acid<br>79-41-4                                            | corrosive      | 3 min            | rabbit  | OECD Guideline 404 (Acute<br>Dermal Irritation / Corrosion) |
| Cumene<br>98-82-8                                                      | not irritating |                  | rabbit  | OECD Guideline 404 (Acute<br>Dermal Irritation / Corrosion) |

**Serious eye damage/irritation:**

| Hazardous components<br>CAS-No. | Result            | Exposure<br>time | Species | Method                                                   |
|---------------------------------|-------------------|------------------|---------|----------------------------------------------------------|
| Maleic acid<br>110-16-7         | highly irritating |                  | rabbit  | OECD Guideline 405 (Acute<br>Eye Irritation / Corrosion) |
| Methacrylic acid<br>79-41-4     | corrosive         |                  | rabbit  | Draize Test                                              |
| Cumene<br>98-82-8               | not irritating    |                  | rabbit  | OECD Guideline 405 (Acute<br>Eye Irritation / Corrosion) |

**Respiratory or skin sensitization:**

| Hazardous components<br>CAS-No. | Result          | Test type                                      | Species    | Method                                                                |
|---------------------------------|-----------------|------------------------------------------------|------------|-----------------------------------------------------------------------|
| 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)                            |
| Methacrylic acid<br>79-41-4     | not sensitising | Buehler<br>test                                | guinea pig | OECD Guideline 406 (Skin<br>Sensitisation)                            |
| Cumene<br>98-82-8               | not sensitising | Guinea pig<br>maximisation<br>test             | guinea pig | OECD Guideline 406 (Skin<br>Sensitisation)                            |

**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                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Methacrylic acid,<br>monoester with propane-<br>1,2-diol<br>27813-02-1 | negative<br>negative                         | bacterial reverse<br>mutation assay (e.g<br>Ames test)<br>mammalian cell<br>gene mutation assay                                                                                                                                                             | with and without<br>with and without                                |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)<br>OECD Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test)                                                                                                                                                                                                                  |
| Methacrylic acid,<br>monoester with propane-<br>1,2-diol<br>27813-02-1 | negative                                     | oral: gavage                                                                                                                                                                                                                                                |                                                                     | rat     | OECD Guideline 474<br>(Mammalian Erythrocyte<br>Micronucleus Test)                                                                                                                                                                                                                                                                                    |
| Cumene 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)                                                                                                                                                                                                                                                                                           |
| Cumene hydroperoxide<br>80-15-9                                        | negative                                     | dermal                                                                                                                                                                                                                                                      |                                                                     | mouse   | 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)                                                                                                                                                                                                                                                                    |
| Methacrylic acid<br>79-41-4                                            | negative                                     | bacterial reverse<br>mutation assay (e.g<br>Ames test)                                                                                                                                                                                                      | with and without                                                    |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)                                                                                                                                                                                                                                                                                           |
| Methacrylic acid<br>79-41-4                                            | negative                                     | inhalation                                                                                                                                                                                                                                                  |                                                                     | mouse   | OECD Guideline 478 (Genetic<br>Toxicology: Rodent Dominant<br>Lethal Test)                                                                                                                                                                                                                                                                            |
| Cumene<br>98-82-8                                                      | negative<br>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>mammalian cell<br>gene mutation assay<br>DNA damage and<br>repair assay,<br>unscheduled DNA<br>synthesis in<br>mammalian cells in<br>vitro | with and without<br>with and without<br>with and without<br>without |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)<br>OECD Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test)<br>OECD Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test)<br>OECD Guideline 482 (Genetic<br>Toxicology: DNA Damage<br>and Repair, Unscheduled<br>DNA Synthesis in Mammalian<br>Cells In Vitro) |
| Cumene<br>98-82-8                                                      | negative                                     | inhalation: gas                                                                                                                                                                                                                                             |                                                                     | mouse   | OECD Guideline 474<br>(Mammalian Erythrocyte<br>Micronucleus Test)                                                                                                                                                                                                                                                                                    |

**Repeated dose toxicity:**

| <b>Hazardous components<br/>CAS-No.</b>                                | <b>Result</b>          | <b>Route of<br/>application</b> | <b>Exposure time /<br/>Frequency of<br/>treatment</b> | <b>Species</b> | <b>Method</b>                                                                                                                        |
|------------------------------------------------------------------------|------------------------|---------------------------------|-------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Methacrylic acid,<br>monoester with propane-<br>1,2-diol<br>27813-02-1 | NOAEL=300<br>mg/kg     | oral: gavage                    |                                                       | rat            | OECD Guideline 422<br>(Combined Repeated Dose<br>Toxicity Study with the<br>Reproduction / Developmental<br>Toxicity Screening Test) |
| Cumene hydroperoxide<br>80-15-9                                        |                        | inhalation:<br>aerosol          | 6 h/d5 d/w                                            | rat            | not specified                                                                                                                        |
| Maleic acid<br>110-16-7                                                | NOAEL=>= 40<br>mg/kg   | oral: feed                      | 90 ddaily                                             | rat            | OECD Guideline 408<br>(Repeated Dose 90-Day Oral<br>Toxicity in Rodents)                                                             |
| Cumene<br>98-82-8                                                      | NOAEL=> 535.8<br>mg/kg | oral: feed                      | 28 ddaily                                             | rat            | not specified                                                                                                                        |
| Cumene<br>98-82-8                                                      | NOAEL=125 ppm          | inhalation:<br>vapour           | 14 w6 h/d, 5 d/w                                      | rat            | OECD Guideline 413<br>(Subchronic Inhalation<br>Toxicity: 90-Day)                                                                    |

**SECTION 12. ECOLOGICAL INFORMATION**

**General ecological information:**

Do not empty into drains / surface water / ground water., May cause long-term adverse effects in the aquatic environment.

**Toxicity:**

| Hazardous components<br>CAS-No.                                    | Value<br>type | Value       | Acute<br>Toxicity<br>Study | Exposure<br>time | Species                                                                     | Method                                                                                          |
|--------------------------------------------------------------------|---------------|-------------|----------------------------|------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Methacrylic acid, monoester<br>with propane-1,2-diol<br>27813-02-1 | LC50          | 493 mg/l    | Fish                       | 48 h             | Leuciscus idus melanotus                                                    | DIN 38412-15                                                                                    |
| Methacrylic acid, monoester<br>with propane-1,2-diol<br>27813-02-1 | EC50          | > 143 mg/l  | Daphnia                    | 48 h             | Daphnia magna                                                               | OECD Guideline<br>202 (Daphnia sp.<br>Acute<br>Immobilisation<br>Test)                          |
| Methacrylic acid, monoester<br>with propane-1,2-diol<br>27813-02-1 | EC50          | > 97.2 mg/l | Algae                      | 72 h             | Pseudokirchneriella subcapitata                                             | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)                                         |
| Methacrylic acid, monoester<br>with propane-1,2-diol<br>27813-02-1 | NOEC          | > 97.2 mg/l | Algae                      | 72 h             | Pseudokirchneriella subcapitata                                             | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)                                         |
| Methacrylic acid, monoester<br>with propane-1,2-diol<br>27813-02-1 | EC10          | 1,140 mg/l  | Bacteria                   | 16 h             |                                                                             | not specified                                                                                   |
| Cumene hydroperoxide<br>80-15-9                                    | LC50          | 3.9 mg/l    | Fish                       | 96 h             | Oncorhynchus mykiss                                                         | OECD Guideline<br>203 (Fish, Acute<br>Toxicity Test)                                            |
| Cumene hydroperoxide<br>80-15-9                                    | EC50          | 18 mg/l     | Daphnia                    | 48 h             | Daphnia magna                                                               | OECD Guideline<br>202 (Daphnia sp.<br>Acute<br>Immobilisation<br>Test)                          |
| Cumene hydroperoxide<br>80-15-9                                    | ErC50         | 3.1 mg/l    | Algae                      | 72 h             | Pseudokirchneriella subcapitata                                             | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)                                         |
| Cumene hydroperoxide<br>80-15-9                                    | EC10          | 70 mg/l     | Bacteria                   | 30 min           |                                                                             | not specified                                                                                   |
| 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)                                         |
| Methacrylic acid<br>79-41-4                                        | LC50          | 85 mg/l     | Fish                       | 96 h             | Salmo gairdneri (new name:<br>Oncorhynchus mykiss)                          | EPA OTS<br>797.1400 (Fish<br>Acute Toxicity<br>Test)                                            |
| Methacrylic acid<br>79-41-4                                        | EC50          | > 130 mg/l  | Daphnia                    | 48 h             | Daphnia magna                                                               | EPA OTS<br>797.1300 (Aquatic<br>Invertebrate Acute<br>Toxicity Test,<br>Freshwater<br>Daphnids) |
| Methacrylic acid<br>79-41-4                                        | NOEC          | 8.2 mg/l    | Algae                      | 72 h             | Selenastrum capricornutum<br>(new name: Pseudokirchneriella<br>subcapitata) | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)                                         |
| Methacrylic acid<br>79-41-4                                        | EC50          | 45 mg/l     | Algae                      | 72 h             | Selenastrum capricornutum<br>(new name: Pseudokirchneriella<br>subcapitata) | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)                                         |
| Methacrylic acid<br>79-41-4                                        | EC10          | 100 mg/l    | Bacteria                   | 17 h             |                                                                             | not specified                                                                                   |
| Cumene<br>98-82-8                                                  | LC50          | 4.8 mg/l    | Fish                       | 96 h             | Oncorhynchus mykiss                                                         | OECD Guideline<br>203 (Fish, Acute<br>Toxicity Test)                                            |
| Cumene<br>98-82-8                                                  | EC50          | 4 mg/l      | Daphnia                    | 48 h             | Daphnia magna                                                               | OECD Guideline<br>202 (Daphnia sp.<br>Acute<br>Immobilisation<br>Test)                          |
| Cumene                                                             | EC50          | 2.6 mg/l    | Algae                      | 72 h             | Selenastrum capricornutum                                                   | OECD Guideline                                                                                  |



|                   |      |          |          |      |                                             |                                                                                                 |
|-------------------|------|----------|----------|------|---------------------------------------------|-------------------------------------------------------------------------------------------------|
| Cumene<br>98-82-8 | EC10 | 211 mg/l | Bacteria | 24 h | (new name: Pseudokirchneriella subcapitata) | 201 (Alga, Growth Inhibition Test)<br>DIN 38412, part 8 (Pseudomonas Zellvermehrungshe mm-Test) |
|-------------------|------|----------|----------|------|---------------------------------------------|-------------------------------------------------------------------------------------------------|

**Persistence and degradability:**

| Hazardous components<br>CAS-No.                                    | Result                   | Route of<br>application | Degradability | Method                                                                            |
|--------------------------------------------------------------------|--------------------------|-------------------------|---------------|-----------------------------------------------------------------------------------|
| Methacrylic acid, monoester<br>with propane-1,2-diol<br>27813-02-1 | readily biodegradable    | aerobic                 | 94.2 %        | OECD Guideline 301 E (Ready<br>biodegradability: Modified OECD<br>Screening Test) |
| Cumene hydroperoxide<br>80-15-9                                    |                          | no data                 | 0 %           | OECD Guideline 301 B (Ready<br>Biodegradability: CO2 Evolution<br>Test)           |
| Maleic acid<br>110-16-7                                            | readily biodegradable    | aerobic                 | 97.08 %       | OECD Guideline 301 B (Ready<br>Biodegradability: CO2 Evolution<br>Test)           |
| Methacrylic acid<br>79-41-4                                        | inherently biodegradable | aerobic                 | 100 %         | OECD Guideline 302 B (Inherent<br>biodegradability: Zahn-<br>Wellens/EMPA Test)   |
| Methacrylic acid<br>79-41-4                                        | readily biodegradable    | aerobic                 | 86 %          | OECD Guideline 301 D (Ready<br>Biodegradability: Closed Bottle<br>Test)           |
| Cumene<br>98-82-8                                                  |                          | aerobic                 | 86 %          | ISO 10708 (BODIS-Test)                                                            |

**Bioaccumulative potential / Mobility in soil:**

| Hazardous components<br>CAS-No.                                    | LogPow | Bioconcentration<br>factor (BCF) | Exposure<br>time | Species           | Temperature | Method                                                                                       |
|--------------------------------------------------------------------|--------|----------------------------------|------------------|-------------------|-------------|----------------------------------------------------------------------------------------------|
| Methacrylic acid, monoester<br>with propane-1,2-diol<br>27813-02-1 | 0.97   |                                  |                  |                   | 20 °C       | not specified                                                                                |
| Cumene hydroperoxide<br>80-15-9                                    |        | 9.1                              |                  | calculation       |             | OECD Guideline 305<br>(Bioconcentration: Flow-<br>through Fish Test)                         |
| Cumene hydroperoxide<br>80-15-9                                    | 2.16   |                                  |                  |                   |             | not specified                                                                                |
| Maleic acid<br>110-16-7                                            | -1.3   |                                  |                  |                   | 20 °C       | OECD Guideline 107<br>(Partition Coefficient (n-<br>octanol / water), Shake<br>Flask Method) |
| Methacrylic acid<br>79-41-4                                        | 0.93   |                                  |                  |                   | 22 °C       | OECD Guideline 107<br>(Partition Coefficient (n-<br>octanol / water), Shake<br>Flask Method) |
| Cumene<br>98-82-8                                                  |        | 35.5                             |                  | Carassius auratus |             | OECD Guideline 305<br>(Bioconcentration: Flow-<br>through Fish Test)                         |
| Cumene<br>98-82-8                                                  | 3.55   |                                  |                  |                   | 23 °C       | OECD Guideline 107<br>(Partition Coefficient (n-<br>octanol / water), Shake<br>Flask Method) |

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Waste disposal of product:** Dispose of in accordance with local and national regulations.

**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.

## SECTION 14. TRANSPORT INFORMATION

### Dangerous Goods information:

Not Classified as Dangerous Goods according to NZS 5433: 2012 and the Land Transport Rule: Dangerous Goods 2005.

### Marine transport IMDG:

Not dangerous goods

### Air transport IATA:

Not dangerous goods

## SECTION 15. REGULATORY INFORMATION

**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:** Compliant for 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:** Corrected information in Section(s): involved chapters: 15

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**Disclaimer:**

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