



## Safety Data Sheet

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LOCTITE 263 HIGH STRENGTH THREADLOCKER known as  
263 THREADLOCKER 250 ML EN A/P

SDS No. : 347828

V001.10

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

**Product name:** LOCTITE 263 HIGH STRENGTH THREADLOCKER known as 263  
THREADLOCKER 250 ML EN A/P

**Other means of identification:** LOCTITE 263 BO250ML AU  
**Product code:** IDH1331536

**Recommended use of the chemical and restrictions on use**

**Intended use:** Adhesive

#### Identification of manufacturer, importer or distributor

**Importer:** PT. Henkel Indonesien  
NISSI BINTARO CAMPUS LT 3,  
JL. TEGAL ROTAN RAYA NO. 78,  
Kel. Sawah Baru, Kec. Ciputat, Kota Tangerang Selatan,  
Banten 15431 - Indonesia. Phone: +62 21 2758 6900

**E-mail address of person responsible for Safety Data Sheet:** ap-ua-psra.sea@henkel.com

**Emergency information:** FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call CHEMTREC: +1 703-741-5970

### Section 2. Hazards identification

#### GHS Classification:

| <u>Hazard Class</u>                              | <u>Hazard Category</u> | <u>Target organ</u>          |
|--|------------------------|------------------------------|
| Skin corrosion/irritation                        | Category 2             |                              |
| Serious eye damage/eye irritation                | Category 2             |                              |
| Skin sensitizer                                  | Category 1             |                              |
| Specific target organ toxicity - single exposure | Category 3             | respiratory tract irritation |
| Chronic hazards to the aquatic environment       | Category 2             |                              |

#### GHS label elements:

**Hazard pictogram:**



**Signal word:** Warning

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|                          |   |
|--------------------------|---|
| <b>Hazard statement:</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.<br>H411 Toxic to aquatic life with long lasting effects.   |
| <b>Precaution:</b>       |   |
| <b>Prevention:</b>       | P261 Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P264 Wash hands thoroughly after handling.<br>P272 Contaminated work clothing should not be allowed out of the workplace.<br>P273 Avoid release to the environment.<br>P280 Wear protective gloves, eye protection, and 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+P364 Take off contaminated clothing and wash it before reuse.<br>P391 Collect spillage. |
| <b>Storage:</b>          | P403+P233 Store in a well-ventilated place. Keep container tightly closed.  |
| <b>Disposal:</b>         | P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.   |

**Section 3. Composition / information on ingredients**

**Substance or Mixture:**  
Mixture

**Declaration of hazardous chemical:**

| Hazard component CAS-No.                                     | Content  | GHS Classification  |
|--|----------|---|
| 3,3,5 Trimethylcyclohexyl methacrylate<br>7779-31-9          | 10- 30 % | Skin corrosion/irritation 2<br>H315<br>Serious eye damage/eye irritation 2A<br>H319<br>Skin sensitizer 1B<br>H317<br>Specific target organ toxicity - single exposure 3<br>H335<br>Chronic hazards to the aquatic environment 2<br>H411   |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0         | 1- 10 %  | Skin sensitizer 1B<br>H317  |
| $\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide<br>80-15-9 | 1- 10 %  | Organic peroxides E<br>H242<br>Acute toxicity 4; Oral<br>H302<br>Acute toxicity 3; Inhalation<br>H331<br>Acute toxicity 4; Dermal<br>H312<br>Skin corrosion/irritation 1B<br>H314<br>Specific target organ toxicity - repeated exposure 2<br>H373<br>Chronic hazards to the aquatic environment 2<br>H411 |
| maleic acid<br>110-16-7                                      | 0.1- 1 % | Acute toxicity 4; Oral<br>H302<br>Acute toxicity 4; Dermal<br>H312<br>Skin corrosion/irritation 2<br>H315<br>Serious eye damage/eye irritation 2A<br>H319<br>Skin sensitizer 1<br>H317<br>Specific target organ toxicity - single exposure 3<br>H335  |
| Acetic acid, 2-phenylhydrazide<br>114-83-0                   | 0.1- 1 % | Acute toxicity 3; Oral<br>H301<br>Skin corrosion/irritation 2<br>H315<br>Serious eye damage/eye irritation 2A<br>H319<br>Skin sensitizer 1<br>H317<br>Carcinogenicity 2<br>H351   |
| cumene<br>98-82-8  | 0.1- 1 % | Flammable liquids 3<br>H226<br>Specific target organ toxicity - single exposure 3<br>H335<br>Aspiration hazard 1<br>H304<br>Chronic hazards to the aquatic environment 2<br>H411  |
| 1,4-Naphthalenedione<br>130-15-4                             | < 0.1 %  | Acute toxicity 3; Oral<br>H301<br>Acute toxicity 1; Inhalation<br>H330<br>Skin corrosion/irritation 2; Dermal<br>H315<br>Serious eye damage/eye irritation 2A<br>H319<br>Skin sensitizer 1  |

|  |  |  |
|--|--|--|
|  |  | H317<br>Acute hazards to the aquatic environment 1<br>H400<br>Chronic hazards to the aquatic environment 1<br>H410 |
|--|--|--|

**Section 4. First aid measures**

- Inhalation:** Move to fresh air. If symptoms persist, seek medical advice.
- Skin contact:** Rinse with running water and soap. Seek medical advice.
- Eye contact:** Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.
- Ingestion:** Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting. Seek medical advice.
- Indication of immediate medical attention and special treatment needed:** See section: Description of first aid measures

**Section 5. Fire fighting measures**

- Suitable extinguishing media:** Carbon dioxide, foam, powder
- Combustion behaviour:** Non flammable product (flash point is greater than 100°C (CC))
- Special protection equipment and precautions for firefighters:** Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
- Hazardous combustion products:** Oxides of carbon, oxides of nitrogen, irritating organic vapors.
- Additional fire fighting advice:** In case of fire, keep containers cool with water spray.

**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**

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

**Storage:** Ensure good ventilation/extraction. 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**

Components with specific control parameters for workplace:

|                   |                         |  |
|-------------------|-------------------------|--|
| CUMENE<br>98-82-8 | <b>Value type</b>       | Time Weighted Average (TWA):             |
|                   | <b>ppm</b>              | 50                                       |
|                   | <b>Remarks</b>          | ACGIH                                    |
| cumene<br>98-82-8 | <b>Value type</b>       | Time Weighted Average (TWA):             |
|                   | <b>ppm</b>              | 50                                       |
|                   | <b>mg/m<sup>3</sup></b> | 246                                      |
|                   | <b>Remarks</b>          | ID NAB                                   |
| cumene<br>98-82-8 | <b>Value type</b>       | Skin designation:                        |
|                   | <b>Remarks</b>          | ID NAB Can be absorbed through the skin. |

**Respiratory protection:** Ensure adequate ventilation.  
An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area  
Filter type: A (EN 14387)

**Hand protection:** Chemical-resistant protective gloves (EN 374).  
Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):  
nitrile rubber (NBR; >= 0.4 mm thickness)  
Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):  
nitrile rubber (NBR; >= 0.4 mm thickness)  
This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

**Eye protection:** Wear protective glasses.  
Protective eye equipment should conform to EN166.

**Body protection:** Wear suitable protective clothing.  
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

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

**Hygienic measures:** Good industrial hygiene practices should be observed. Wash hands before work breaks and after finishing work. Do not eat, drink or smoke while working.

### Section 9. Physical and chemical properties

|  |                              |
|--|------------------------------|
| <b>Appearance:</b>                             | red<br>liquid                |
| <b>Odor:</b>                                   | characteristic               |
| <b>Odor threshold (CA):</b>                    | No data available.           |
| <b>pH:</b>                                     | No data available.           |
| <b>Melting point / freezing point:</b>         | No data available.           |
| <b>Specific gravity:</b>                       | No data available.           |
| <b>Boiling point:</b>                          | No data available.           |
| <b>Flash point:</b>                            | 100 °C (212 °F)<br>Estimated |
| <b>Evaporation rate:</b>                       | No data available.           |
| <b>Flammability (solid, gas):</b>              | No data available.           |
| <b>Lower explosive limit:</b>                  | No data available.           |
| <b>Upper explosive limit:</b>                  | No data available.           |
| <b>Vapor pressure:</b>                         | No data available.           |
| <b>Vapor density:</b>                          | No data available.           |
| <b>Density:</b>                                | No data available.           |
| <b>Solubility:</b>                             | Slightly soluble             |
| <b>Partition coefficient: n-octanol/water:</b> | No data available.           |
| <b>Auto ignition:</b>                          | No data available.           |
| <b>Decomposition temperature:</b>              | No data available.           |
| <b>Viscosity:</b>                              | No data available.           |
| <b>VOC content:</b><br>(2010/75/EC)            | < 3 %                        |

### Section 10. Stability and reactivity

|   |  |
|---|--|
| <b>Reactivity/Incompatible materials:</b> | Peroxides.   |
| <b>Chemical stability:</b>                | Stable under recommended storage conditions.       |
| <b>Conditions to avoid:</b>               | Stable under normal conditions of storage and use. |
| <b>Hazardous decomposition products:</b>  | carbon oxides.                                     |

### Section 11. Toxicological information

|                             |  |
|-----------------------------|--|
| <b>Oral toxicity:</b>       | Acute toxicity estimate (ATE) : > 2,000 mg/kg<br>Method: Calculation method  |
| <b>Inhalative toxicity:</b> | Acute toxicity estimate (ATE) : > 20 mg/l<br>Exposure time: 4 h<br>Test atmosphere: Vapor.<br>Method: Calculation method |
| <b>Dermal toxicity:</b>     | Acute toxicity estimate (ATE) : > 2,000 mg/kg<br>Method: Calculation method  |

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

**Acute oral toxicity:**

|  |            |  |
|--|------------|--|
| 3,3,5 Trimethylcyclohexyl methacrylate<br>7779-31-9  | Value type | LD0                                      |
|  | Value      | > 5,000 mg/kg                            |
|  | Species    | rat                                      |
|  | Method     | OECD Guideline 401 (Acute Oral Toxicity) |
| 3,3,5 Trimethylcyclohexyl methacrylate<br>7779-31-9  | Value type | LD50                                     |
|  | Value      | > 5,000 mg/kg                            |
|  | Species    | rat                                      |
|  | Method     | OECD Guideline 401 (Acute Oral Toxicity) |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | Value type | LD50                                     |
|  | Value      | 10,837 mg/kg                             |
|  | Species    | rat                                      |
|  | Method     | not specified                            |
| α, α-dimethylbenzyl hydroperoxide<br>80-15-9         | Value type | LD50                                     |
|  | Value      | 382 mg/kg                                |
|  | Species    | rat                                      |
|  | Method     | other guideline:                         |
| maleic acid<br>110-16-7                              | Value type | LD50                                     |
|  | Value      | 708 mg/kg                                |
|  | Species    | rat                                      |
|  | Method     | not specified                            |
| Acetic acid, 2-phenylhydrazide<br>114-83-0           | Value type | LD50                                     |
|  | Value      | 270 mg/kg                                |
|  | Species    | rat                                      |
|  | Method     | not specified                            |
| cumene<br>98-82-8                                    | Value type | LD50                                     |
|  | Value      | 2,700 mg/kg                              |
|  | Species    | rat                                      |
|  | Method     | OECD Guideline 401 (Acute Oral Toxicity) |
| 1,4-Naphthalenedione<br>130-15-4                     | Value type | LD50                                     |
|  | Value      | 190 mg/kg                                |
|  | Species    | rat                                      |
|  | Method     | not specified                            |

**Acute inhalative toxicity:**

|                   |               |               |
|-------------------|---------------|---------------|
| cumene<br>98-82-8 | Value type    | LC50          |
|                   | Value         | 39 mg/l       |
|                   | Exposure time | 4 h           |
|                   | Species       | rat           |
|                   | Method        | not specified |

**Acute dermal toxicity:**

|   |            |  |
|---|------------|--|
| 3,3,5 Trimethylcyclohexyl<br>methacrylate<br>7779-31-9  | Value type | LD0  |
|   | Value      | > 2,000 mg/kg                              |
|   | Species    | rat  |
|   | Method     | OECD Guideline 402 (Acute Dermal Toxicity) |
| 3,3,5 Trimethylcyclohexyl<br>methacrylate<br>7779-31-9  | Value type | LD50                                       |
|   | Value      | > 2,000 mg/kg                              |
|   | Species    | rat  |
|   | Method     | OECD Guideline 402 (Acute Dermal Toxicity) |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | Value type | LD50                                       |
|   | Value      | > 2,000 mg/kg                              |
|   | Species    | mouse                                      |
|   | Method     | not specified                              |
| α, α-dimethylbenzyl hydroperoxide<br>80-15-9            | Value type | LD50                                       |
|   | Value      | 530 - 1,060 mg/kg                          |
|   | Species    | rat  |
|   | Method     | other guideline:                           |
| α, α-dimethylbenzyl hydroperoxide<br>80-15-9            | Value type | Acute toxicity estimate (ATE)              |
|   | Value      | 1,100 mg/kg                                |
|   | Species    |  |
|   | Method     | Expert judgement                           |
| maleic acid<br>110-16-7                                 | Value type | LD50                                       |
|   | Value      | 1,560 mg/kg                                |
|   | Species    | rabbit                                     |
|   | Method     | not specified                              |
| cumene<br>98-82-8                                       | Value type | LD50                                       |
|   | Value      | > 10,000 mg/kg                             |
|   | Species    | rabbit                                     |
|   | Method     | not specified                              |

**Skin corrosion/irritation:**

|  |               |  |
|--|---------------|--|
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | Result        | not irritating   |
|  | Exposure time | 24 h   |
|  | Species       | rabbit   |
|  | Method        | Draize Test  |
| α, α-dimethylbenzyl hydroperoxide<br>80-15-9         | Result        | corrosive  |
|  | Exposure time |  |
|  | Species       | rabbit   |
|  | Method        | Draize Test  |
| maleic acid<br>110-16-7                              | Result        | irritating   |
|  | Exposure time | 24 h   |
|  | Species       | human  |
|  | Method        | Patch Test   |
| cumene<br>98-82-8                                    | Result        | not irritating   |
|  | Exposure time |  |
|  | Species       | rabbit   |
|  | Method        | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |



**Serious eye damage/irritation:**

|  |               |   |
|--|---------------|---|
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | Result        | not irritating  |
|  | Exposure time |   |
|  | Species       | rabbit  |
|  | Method        | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| maleic acid<br>110-16-7                              | Result        | highly irritating                                     |
|  | Exposure time |   |
|  | Species       | rabbit  |
|  | Method        | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| cumene<br>98-82-8                                    | Result        | not irritating  |
|  | Exposure time |   |
|  | Species       | rabbit  |
|  | Method        | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

**Respiratory or skin sensitization:**

|   |           |   |
|---|-----------|---|
| 3,3,5 Trimethylcyclohexyl<br>methacrylate<br>7779-31-9  | Result    | sensitising   |
|   | Test type | Mouse local lymphnode assay (LLNA)                              |
|   | Species   | mouse   |
|   | Method    | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | Result    | sensitising   |
|   | Test type | Mouse local lymphnode assay (LLNA)                              |
|   | Species   | mouse   |
|   | Method    | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| maleic acid<br>110-16-7                                 | Result    | sensitising   |
|   | Test type | Mouse local lymphnode assay (LLNA)                              |
|   | Species   | mouse   |
|   | Method    | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| maleic acid<br>110-16-7                                 | Result    | sensitising   |
|   | Test type | Mouse local lymphnode assay (LLNA)                              |
|   | Species   | guinea pig  |
|   | Method    | OECD Guideline 406 (Skin Sensitisation)                         |
| cumene<br>98-82-8                                       | Result    | not sensitising   |
|   | Test type | Guinea pig maximisation test                                    |
|   | Species   | guinea pig  |
|   | Method    | OECD Guideline 406 (Skin Sensitisation)                         |

**Germ cell mutagenicity:**

|  |   |   |
|--|---|---|
| 3,3,5 Trimethylcyclohexyl methacrylate<br>7779-31-9  | Result                                  | negative  |
|  | Type of study / Route of administration | bacterial reverse mutation assay (e.g Ames test)  |
|  | Metabolic activation / Exposure time    | with and without  |
|  | Method                                  | OECD Guideline 471 (Bacterial Reverse Mutation Assay)   |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | Result                                  | negative  |
|  | Type of study / Route of administration | mammalian cell gene mutation assay  |
|  | Metabolic activation / Exposure time    | with and without  |
|  | Method                                  | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)   |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | Result                                  | negative  |
|  | Type of study / Route of administration | bacterial reverse mutation assay (e.g Ames test)  |
|  | Metabolic activation / Exposure time    | with and without  |
|  | Method                                  | OECD Guideline 471 (Bacterial Reverse Mutation Assay)   |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | Result                                  | negative  |
|  | Type of study / Route of administration | in vitro mammalian cell micronucleus test   |
|  | Metabolic activation / Exposure time    | with and without  |
|  | Method                                  | OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)  |
| α, α-dimethylbenzyl hydroperoxide<br>80-15-9         | Result                                  | positive  |
|  | Type of study / Route of administration | bacterial reverse mutation assay (e.g Ames test)  |
|  | Metabolic activation / Exposure time    | without   |
|  | Method                                  | OECD Guideline 471 (Bacterial Reverse Mutation Assay)   |
| α, α-dimethylbenzyl hydroperoxide<br>80-15-9         | Result                                  | negative  |
|  | Type of study / Route of administration | dermal  |
|  | Metabolic activation / Exposure time    |   |
|  | Species                                 | mouse   |
|  | Method                                  | not specified   |
| maleic acid<br>110-16-7                              | Result                                  | negative  |
|  | Type of study / Route of administration | bacterial reverse mutation assay (e.g Ames test)  |
|  | Metabolic activation / Exposure time    | no data   |
|  | Method                                  | Ames Test   |
| maleic acid<br>110-16-7                              | Result                                  | negative  |
|  | Type of study / Route of administration | mammalian cell gene mutation assay  |
|  | Metabolic activation / Exposure time    | with and without  |
|  | Method                                  | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)   |
| cumene<br>98-82-8                                    | Result                                  | negative  |
|  | Type of study / Route of administration | bacterial reverse mutation assay (e.g Ames test)  |
|  | Metabolic activation / Exposure time    | with and without  |
|  | Method                                  | OECD Guideline 471 (Bacterial Reverse Mutation Assay)   |
| cumene<br>98-82-8                                    | Result                                  | negative  |
|  | Type of study / Route of administration | in vitro mammalian chromosome aberration test   |
|  | Metabolic activation / Exposure time    | with and without  |
|  | Method                                  | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)  |
| cumene<br>98-82-8                                    | Result                                  | negative  |
|  | Type of study / Route of administration | mammalian cell gene mutation assay  |
|  | Metabolic activation / Exposure time    | with and without  |
|  | Method                                  | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)   |
| cumene<br>98-82-8                                    | Result                                  | negative  |
|  | Type of study / Route of administration | DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro                                    |
|  | Metabolic activation / Exposure time    | without   |
|  | Method                                  | OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro) |
| cumene<br>98-82-8                                    | Result                                  | negative  |
|  | Type of study / Route of administration | inhalation: gas   |
|  | Metabolic activation / Exposure time    |   |
|  | Species                                 | mouse   |
|  | Method                                  | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)  |

**Repeated dose toxicity:**

|  |  |  |
|--|--|--|
| 3,3,5 Trimethylcyclohexyl methacrylate<br>7779-31-9          | Result                                 | NOAEL=1,000 mg/kg  |
|  | Route of application                   | oral: gavage   |
|  | Exposure time / Frequency of treatment | 28 ddaily  |
|  | Species                                | rat  |
|  | Method                                 | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0         | Result                                 | NOAEL=1,000 mg/kg  |
|  | Route of application                   | oral: gavage   |
|  | Exposure time / Frequency of treatment | daily  |
|  | Species                                | rat  |
|  | Method                                 | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| $\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide<br>80-15-9 | Result                                 |  |
|  | Route of application                   | inhalation: aerosol  |
|  | Exposure time / Frequency of treatment | 6 h/d5 d/w   |
|  | Species                                | rat  |
|  | Method                                 | not specified  |
| maleic acid<br>110-16-7                                      | Result                                 | NOAEL= $\geq$ 40 mg/kg   |
|  | Route of application                   | oral: feed   |
|  | Exposure time / Frequency of treatment | 90 ddaily  |
|  | Species                                | rat  |
|  | Method                                 | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)   |
| cumene<br>98-82-8  | Result                                 | NOAEL= $\geq$ 535.8 mg/kg  |
|  | Route of application                   | oral: feed   |
|  | Exposure time / Frequency of treatment | 28 ddaily  |
|  | Species                                | rat  |
|  | Method                                 | not specified  |
| cumene<br>98-82-8  | Result                                 | NOAEL=125 ppm  |
|  | Route of application                   | inhalation: vapour   |
|  | Exposure time / Frequency of treatment | 14 w6 h/d, 5 d/w   |
|  | Species                                | rat  |
|  | Method                                 | OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)  |

**Section 12. Ecological information****General ecological information:** Do not empty into drains / surface water / ground water.**Ecotoxicity:** Toxic to aquatic life with long lasting effects.**Toxicity:**

|  |                      |  |
|--|----------------------|--|
| 3,3,5 Trimethylcyclohexyl methacrylate<br>7779-31-9  | Value type           | LC50   |
|  | Value                | 1.9 mg/l   |
|  | Acute Toxicity Study | Fish   |
|  | Exposure time        | 96 h   |
|  | Species              | Brachydanio rerio (new name: Danio rerio)                  |
|  | Method               | OECD Guideline 203 (Fish, Acute Toxicity Test)             |
| 3,3,5 Trimethylcyclohexyl methacrylate<br>7779-31-9  | Value type           | EC50   |
|  | Value                | 14.43 mg/l   |
|  | Acute Toxicity Study | Daphnia  |
|  | Exposure time        | 48 h   |
|  | Species              | Daphnia magna  |
|  | Method               | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| 3,3,5 Trimethylcyclohexyl methacrylate<br>7779-31-9  | Value type           | EC10   |
|  | Value                | 0.43 mg/l  |
|  | Acute Toxicity Study | Algae  |
|  | Exposure time        | 72 h   |
|  | Species              | Pseudokirchneriella subcapitata                            |
|  | Method               | OECD Guideline 201 (Alga, Growth Inhibition Test)          |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | Value type           | LC50   |
|  | Value                | 16.4 mg/l  |
|  | Acute Toxicity Study | Fish   |

|   |                      |  |
|---|----------------------|--|
|   | Exposure time        | 96 h   |
|   | Species              | Danio rerio  |
|   | Method               | OECD Guideline 203 (Fish, Acute Toxicity Test)             |
| 2,2'-Ethylendioxydiethyl dimethacrylate<br>109-16-0 | Value type           | EC50   |
|   | Value                | > 100 mg/l   |
|   | Acute Toxicity Study | Algae  |
|   | Exposure time        | 72 h   |
|   | Species              | Pseudokirchneriella subcapitata                            |
|   | Method               | OECD Guideline 201 (Alga, Growth Inhibition Test)          |
|   | Value type           | NOEC   |
|   | Value                | 18.6 mg/l  |
|   | Acute Toxicity Study | Algae  |
|   | Exposure time        | 72 h   |
|   | Species              | Pseudokirchneriella subcapitata                            |
|   | Method               | OECD Guideline 201 (Alga, Growth Inhibition Test)          |
| α, α-dimethylbenzyl hydroperoxide<br>80-15-9        | Value type           | LC50   |
|   | Value                | 3.9 mg/l   |
|   | Acute Toxicity Study | Fish   |
|   | Exposure time        | 96 h   |
|   | Species              | Oncorhynchus mykiss  |
|   | Method               | OECD Guideline 203 (Fish, Acute Toxicity Test)             |
| α, α-dimethylbenzyl hydroperoxide<br>80-15-9        | Value type           | EC50   |
|   | Value                | 18 mg/l  |
|   | Acute Toxicity Study | Daphnia  |
|   | Exposure time        | 48 h   |
|   | Species              | Daphnia magna  |
|   | Method               | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| α, α-dimethylbenzyl hydroperoxide<br>80-15-9        | Value type           | ErC50  |
|   | Value                | 3.1 mg/l   |
|   | Acute Toxicity Study | Algae  |
|   | Exposure time        | 72 h   |
|   | Species              | Pseudokirchneriella subcapitata                            |
|   | Method               | OECD Guideline 201 (Alga, Growth Inhibition Test)          |
| α, α-dimethylbenzyl hydroperoxide<br>80-15-9        | Value type           | EC10   |
|   | Value                | 70 mg/l  |
|   | Acute Toxicity Study | Bacteria   |
|   | Exposure time        | 30 min   |
|   | Species              |  |
|   | Method               | not specified  |
| maleic acid<br>110-16-7                             | Value type           | LC50   |
|   | Value                | > 245 mg/l   |
|   | Acute Toxicity Study | Fish   |
|   | Exposure time        | 48 h   |
|   | Species              | Leuciscus idus   |
|   | Method               | DIN 38412-15   |
| maleic acid<br>110-16-7                             | Value type           | EC50   |
|   | Value                | 42.81 mg/l   |
|   | Acute Toxicity Study | Daphnia  |
|   | Exposure time        | 48 h   |
|   | Species              | Daphnia magna  |
|   | Method               | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| maleic acid<br>110-16-7                             | Value type           | EC50   |
|   | Value                | 74.35 mg/l   |
|   | Acute Toxicity Study | Algae  |
|   | Exposure time        | 72 h   |
|   | Species              | Pseudokirchneriella subcapitata                            |
|   | Method               | OECD Guideline 201 (Alga, Growth Inhibition Test)          |
|   | Value type           | EC10   |
|   | Value                | 11.8 mg/l  |
|   | Acute Toxicity Study | Algae  |
|   | Exposure time        | 72 h   |
|   | Species              | Pseudokirchneriella subcapitata                            |
|   | Method               | OECD Guideline 201 (Alga, Growth Inhibition Test)          |
| maleic acid<br>110-16-7                             | Value type           | EC10   |
|   | Value                | 44.6 mg/l  |
|   | Acute Toxicity Study | Bacteria   |
|   | Exposure time        | 18 h   |
|   | Species              | Pseudomonas putida   |
|   | Method               | DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)   |

|                                  |                      |  |
|----------------------------------|----------------------|--|
| cumene<br>98-82-8                | Value type           | LC50   |
|                                  | Value                | 4.8 mg/l   |
|                                  | Acute Toxicity Study | Fish   |
|                                  | Exposure time        | 96 h   |
|                                  | Species              | Oncorhynchus mykiss  |
|                                  | Method               | OECD Guideline 203 (Fish, Acute Toxicity Test)             |
| cumene<br>98-82-8                | Value type           | EC50   |
|                                  | Value                | 4 mg/l   |
|                                  | Acute Toxicity Study | Daphnia  |
|                                  | Exposure time        | 48 h   |
|                                  | Species              | Daphnia magna  |
|                                  | Method               | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| cumene<br>98-82-8                | Value type           | EC50   |
|                                  | Value                | 2.01 mg/l  |
|                                  | Acute Toxicity Study | Algae  |
|                                  | Exposure time        | 72 h   |
|                                  | Species              | Desmodesmus subspicatus                                    |
|                                  | Method               | OECD Guideline 201 (Alga, Growth Inhibition Test)          |
|                                  | Value type           | EC10   |
|                                  | Value                | 1.35 mg/l  |
|                                  | Acute Toxicity Study | Algae  |
|                                  | Exposure time        | 72 h   |
|                                  | Species              | Desmodesmus subspicatus                                    |
|                                  | Method               | OECD Guideline 201 (Alga, Growth Inhibition Test)          |
| cumene<br>98-82-8                | Value type           | EC10   |
|                                  | Value                | 211 mg/l   |
|                                  | Acute Toxicity Study | Bacteria   |
|                                  | Exposure time        | 24 h   |
|                                  | Species              |  |
|                                  | Method               | DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)   |
| 1,4-Naphthalenedione<br>130-15-4 | Value type           | EC50   |
|                                  | Value                | 0.011 mg/l   |
|                                  | Acute Toxicity Study | Algae  |
|                                  | Exposure time        | 72 h   |
|                                  | Species              | Dunaliella bioculata                                       |
|                                  | Method               | OECD Guideline 201 (Alga, Growth Inhibition Test)          |

**Persistence and degradability:**

|   |                      |   |
|---|----------------------|---|
| 3,3,5 Trimethylcyclohexyl<br>methacrylate<br>7779-31-9  | Result               | not readily biodegradable.  |
|   | Route of application | aerobic   |
|   | Degradability        | 16.8 %  |
|   | Method               | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | Result               | readily biodegradable   |
|   | Route of application | aerobic   |
|   | Degradability        | 85 %  |
|   | Method               | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)           |
| α, α-dimethylbenzyl<br>hydroperoxide<br>80-15-9         | Result               |   |
|   | Route of application | no data   |
|   | Degradability        | 0 %   |
|   | Method               | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)           |
| maleic acid<br>110-16-7                                 | Result               | readily biodegradable   |
|   | Route of application | aerobic   |
|   | Degradability        | 97.08 %   |
|   | Method               | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)           |
| cumene<br>98-82-8                                       | Result               |   |
|   | Route of application | aerobic   |
|   | Degradability        | 86 %  |
|   | Method               | ISO 10708 (BODIS-Test)  |
| 1,4-Naphthalenedione<br>130-15-4                        | Result               | not readily biodegradable.  |
|   | Route of application | no data   |
|   | Degradability        | 0 - 60 %  |
|   | Method               | OECD 301 A - F  |

**Bioaccumulative potential / Mobility in soil:**

|   |             |       |
|---|-------------|-------|
| 3,3,5 Trimethylcyclohexyl<br>methacrylate | LogPow      | 5.25  |
|   | Temperature | 20 °C |

|   |                               |  |
|---|-------------------------------|--|
| 7779-31-9   | Method                        | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)        |
| 2,2'-Ethylendioxydiethyl dimethacrylate<br>109-16-0 | LogPow                        | 2.3  |
|   | Temperature                   |  |
|   | Method                        | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)        |
| α, α-dimethylbenzyl hydroperoxide<br>80-15-9        | Bioconcentration factor (BCF) | 9.1  |
|   | Exposure time                 |  |
|   | Species                       | calculation  |
|   | Temperature                   |  |
|   | Method                        | OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)                      |
| α, α-dimethylbenzyl hydroperoxide<br>80-15-9        | LogPow                        | 2.16   |
|   | Temperature                   |  |
|   | Method                        | not specified  |
| maleic acid<br>110-16-7                             | LogPow                        | -1.3   |
|   | Temperature                   | 20 °C  |
|   | Method                        | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| Acetic acid, 2-phenylhydrazide<br>114-83-0          | LogPow                        | 0.74   |
|   | Temperature                   |  |
|   | Method                        | not specified  |
| cumene<br>98-82-8                                   | Bioconcentration factor (BCF) | 35.5   |
|   | Exposure time                 |  |
|   | Species                       | Carassius auratus  |
|   | Temperature                   |  |
|   | Method                        | OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)                      |
| cumene<br>98-82-8                                   | LogPow                        | 3.55   |
|   | Temperature                   | 23 °C  |
|   | Method                        | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| 1,4-Naphthalenedione<br>130-15-4                    | LogPow                        | 1.71   |
|   | Temperature                   |  |
|   | Method                        | not specified  |

### Section 13. Disposal considerations

#### Product

**Method of disposal:** Dispose of in accordance with local and national regulations.  
Contribution of this product to waste is very insignificant in comparison to article in which it is used

#### Packaging

**Disposal of uncleaned packages:** After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

### Section 14. Transport information

#### Road transport ADR:

|                       |   |
|-----------------------|---|
| Class:                | 9   |
| Packing group:        | III   |
| Classification code:  | M6  |
| Hazard ident. number: | 90  |
| UN no.:               | 3082  |
| Label:                | 9   |
| Technical name:       | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S. (3,3,5-Trimethylcyclohexyl methacrylate) |

**Railroad transport RID:**

|                       |   |
|-----------------------|---|
| Class:                | 9   |
| Packing group:        | III   |
| Classification code:  | M6  |
| Hazard ident. number: | 90  |
| UN no.:               | 3082  |
| Label:                | 9   |
| Technical name:       | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S. (3,3,5-Trimethylcyclohexyl methacrylate) |

**Inland water transport ADN:**

|                       |   |
|-----------------------|---|
| Class:                | 9   |
| Packing group:        | III   |
| Classification code:  | M6  |
| Hazard ident. number: |   |
| UN no.:               | 3082  |
| Label:                | 9   |
| Technical name:       | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S. (3,3,5-Trimethylcyclohexyl methacrylate) |

**Marine transport IMDG:**

|                       |   |
|-----------------------|---|
| Class:                | 9   |
| Packing group:        | III   |
| UN no.:               | 3082  |
| Label:                | 9   |
| EmS:                  | F-A ,S-F  |
| Seawater pollutant:   | Marine pollutant  |
| Proper shipping name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S. (3,3,5-Trimethylcyclohexyl methacrylate) |

**Air transport IATA:**

|                                     |  |
|-------------------------------------|--|
| Class:                              | 9  |
| Packing group:                      | III  |
| Packaging instructions (passenger): | 964  |
| Packaging instructions (cargo):     | 964  |
| UN no.:                             | 3082   |
| Label:                              | 9  |
| Proper shipping name:               | Environmentally hazardous substance, liquid, n.o.s. (3,3,5-<br>Trimethylcyclohexyl methacrylate) |

**Further information for transport:**

The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA), 969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.

**Regulatory Information:** Decree of Minister of Industry No. 23/M-IND/PER/4/2013 concerning the Revision of Decree of Minister of Industry No.87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals  
Decree of Minister of Industry No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals

**Global inventory status:**

| Regulatory list | Notification |
|-----------------|--------------|
| TSCA            | yes          |
| AICS            | yes          |
| NDSL            | yes          |
| KECI (KR)       | yes          |
| IECSC           | yes          |
| ISHL (JP)       | yes          |

**Section 16. Other information**

**Disclaimer:**

This Safety Data Sheet has been generated based on Decree of Minister of Industry No. 23/M-IND/PER/4/2013 concerning the Revision of Decree of Minister of Industry No.87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals only. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance. This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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