



# Safety Data Sheet

Revision: 2018-12-13

## SUMA MED SUPER LPH

Version: 01.1

### SECTION 1: Identification of the substance/mixture and supplier

#### 1.1 Product identifier

**Product name:** SUMA MED SUPER LPH

#### 1.2 Recommended use and restrictions on use

**Identified uses:**

Washing and rinsing detergent for medical instruments

**Restrictions of use:**

Uses other than those identified are not recommended

#### 1.3 Details of the supplier

Diversey Australia Pty. Limited  
29 Chifley St, Smithfield, NSW, 2164, Australia  
Telephone: 1800 647 779 (toll free)  
Fax: (02) 9725 5767  
Email: [aucustserv@diversey.com](mailto:aucustserv@diversey.com)  
Website: [www.diversey.com/](http://www.diversey.com/)

#### 1.4 Emergency telephone number

Call 1800 033 111 (24hrs)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Serious eye irritation, Category 2

Skin sensitisation, Category 1

#### 2.2 Label elements



**Signal word:** Warning

**Hazard statements:**

H319 - Causes serious eye irritation.

H317 - May cause an allergic skin reaction.

**Prevention statement(s):**

P233 - Keep container tightly closed.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

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

P280 - Wear protective gloves.

**Response statement(s):**

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice or attention.

P321 - Specific treatment (see supplemental first aid instructions on this label).

P363 - Wash contaminated clothing before reuse.

**Disposal statement(s):**

P501 - Dispose of unused content as chemical waste.

#### 2.3 Other hazards

No other hazards known.

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**2.4 Classification diluted product:**

Recommended maximum concentration (%): 0.3

Not classified as hazardous

**SECTION 3: Composition/information on ingredients****3.1 Substances / Mixtures**

| Ingredient(s)  | CAS number | EC number              | Weight percent |
|--|------------|------------------------|----------------|
| tetrasodium ethylene diamine tetraacetate  | 64-02-8    | 200-573-9              | 3-10           |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | 55965-84-9 | 220-239-6<br>247-500-7 | < 0.01         |

[4] Polymer.

Non-hazardous ingredients are the remainder and add up to 100%.

Workplace exposure limit(s), if available, are listed in subsection 8.1.

**SECTION 4: First aid measures****4.1 Description of first aid measures****General Information:**

Symptoms of intoxication may even occur after several hours. It is recommended to continue medical observation for at least 48 hours after the incident.

**Inhalation:**

Get medical attention or advice if you feel unwell.

**Skin contact:**

Wash skin with plenty of lukewarm, gently flowing water. Take off immediately all contaminated clothing and wash it before re-use. If skin irritation occurs: Get medical advice or attention.

**Eye contact:**

Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs and persists, get medical attention.

**Ingestion:**

Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.

**Self-protection of first aider:**

Consider personal protective equipment as indicated in subsection 8.2.

**First aid facilities:**

Eyewash facilities should be considered in a workplace where necessary.

**4.2 Most important symptoms and effects, both acute and delayed****Inhalation:**

No known effects or symptoms in normal use.

**Skin contact:**

May cause an allergic skin reaction.

**Eye contact:**

Causes severe irritation.

**Ingestion:**

No known effects or symptoms in normal use.

**4.3 Indication of any immediate medical attention and special treatment needed**

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

**Poison Information Center:**

Call 13 11 26 (Australia Wide).

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

**5.2 Special hazards arising from the substance or mixture**

No special hazards known.

**5.3 Advice for firefighters**

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

**5.4 Hazchem code**

None allocated

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Wear suitable gloves.

**6.2 Environmental precautions**

Do not allow to enter drainage system, surface or ground water. Dilute with plenty of water.

**6.3 Methods and material for containment and cleaning up**

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Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).

#### 6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Measures to prevent fire and explosions:

No special precautions required.

#### Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

#### Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash hands before breaks and at the end of workday. Take off contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging.

For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

### 7.3 Specific end use(s)

No specific advice for end use available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Workplace exposure limits

Air limit values, if available:

Biological limit values, if available:

### 8.2 Exposure controls

*The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet.*

*If available, please refer to the product information sheet for application and handling instructions.*

*Normal use conditions are assumed for this section.*

*Recommended safety measures for handling the undiluted product:*

*Covering activities such as filling and transfer of product to application equipment, flasks or buckets*

**Appropriate engineering controls:** If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required.

**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

#### Personal protective equipment

##### Eye / face protection:

Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product (EN 166).

##### Hand protection:

Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact: Material: butyl rubber Penetration time:  $\geq 480$  min Material thickness:  $\geq 0.7$  mm

Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time:  $\geq 30$  min Material thickness:  $\geq 0.4$  mm

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

##### Body protection:

No special requirements under normal use conditions.

##### Respiratory protection:

No special requirements under normal use conditions.

##### Environmental exposure controls:

No special requirements under normal use conditions.

*Recommended safety measures for handling the diluted product:*

**Recommended maximum concentration (%):** 0.3

**Appropriate engineering controls:** No special requirements under normal use conditions.

**Appropriate organisational controls:** No special requirements under normal use conditions.

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**Personal protective equipment**

|                                |  |
|--------------------------------|--|
| <b>Eye / face protection:</b>  | No special requirements under normal use conditions. |
| <b>Hand protection:</b>        | No special requirements under normal use conditions. |
| <b>Body protection:</b>        | No special requirements under normal use conditions. |
| <b>Respiratory protection:</b> | No special requirements under normal use conditions. |

**Environmental exposure controls:** No special requirements under normal use conditions.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

|   | Method / remark                                |
|---|--|
| <b>Physical State:</b> Liquid   |  |
| <b>Colour:</b> Clear, Colourless  |  |
| <b>Odour:</b> Product specific  |  |
| <b>Odour threshold:</b> Not applicable  |  |
| <b>pH:</b> $\approx 7$ (neat)   | ISO 4316                                       |
| <b>Melting point/freezing point (°C):</b> Not determined  | Not relevant to classification of this product |
| <b>Initial boiling point and boiling range (°C):</b> Not determined   |  |
| <b>Flammability (liquid):</b> Not flammable.  |  |
| <b>Flash point (°C):</b> $> 93.4$   |  |
| <b>Sustained combustion:</b> Not applicable.<br>( UN Manual of Tests and Criteria, section 32, L.2 )  |  |
| <b>Evaporation rate:</b> Not determined   | Not relevant to classification of this product |
| <b>Flammability (solid, gas):</b> Not applicable to liquids   |  |
| <b>Upper/lower flammability limit (%):</b> Not determined   |  |
| <b>Vapour pressure:</b> Not determined  |  |
| <b>Vapour density:</b> Not determined   | Not relevant to classification of this product |
| <b>Relative density:</b> $\approx 1.05$ (20 °C)   | OECD 109 (EU A.3)                              |
| <b>Solubility in / Miscibility with Water:</b> Fully miscible   |  |
| <b>Partition coefficient: n-octanol/water</b> No information available.<br>Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3 |  |
| <b>Autoignition temperature:</b> Not determined   |  |
| <b>Decomposition temperature:</b> Not applicable.   |  |
| <b>Viscosity:</b> Not determined  |  |
| <b>Explosive properties:</b> Not explosive.   |  |
| <b>Oxidising properties:</b> Not oxidising  |  |

**9.2 Other information**

**Surface tension (N/m):** Not determined  
**Corrosion to metals:** Not corrosive

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No reactivity hazards known under normal storage and use conditions.

**10.2 Chemical stability**

Stable under normal storage and use conditions.

**10.3 Possibility of hazardous reactions**

No hazardous reactions known under normal storage and use conditions.

**10.4 Conditions to avoid**

None known under normal storage and use conditions.

**10.5 Incompatible materials**

None known under normal use conditions.

**10.6 Hazardous decomposition products**

None known under normal storage and use conditions.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

Mixture data:

**Relevant calculated ATE(s):**

ATE - Oral (mg/kg):  $>2000$

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ATE - Inhalatory, mists (mg/l): &gt;5

**Eye irritation and corrosivity****Result:** Eye irritant 2**Method:** Weight of evidence

Substance data, where relevant and available, are listed below:.

**Acute toxicity**

Acute oral toxicity

| Ingredient(s)  | Endpoint         | Value (mg/kg) | Species | Method             | Exposure time (h) |
|--|------------------|---------------|---------|--------------------|-------------------|
| tetrasodium ethylene diamine tetraacetate  | LD <sub>50</sub> | ≥ 1780        | Rat     | Non guideline test |                   |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | LD <sub>50</sub> | 457           | Rat     | Method not given   |                   |

Acute dermal toxicity

| Ingredient(s)  | Endpoint         | Value (mg/kg) | Species | Method           | Exposure time (h) |
|--|------------------|---------------|---------|------------------|-------------------|
| tetrasodium ethylene diamine tetraacetate  | LD <sub>50</sub> | > 5000        | Rabbit  | Method not given |                   |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | LD <sub>50</sub> | 660           | Rabbit  | Method not given |                   |

Acute inhalative toxicity

| Ingredient(s)  | Endpoint         | Value (mg/l)      | Species | Method            | Exposure time (h) |
|--|------------------|-------------------|---------|-------------------|-------------------|
| tetrasodium ethylene diamine tetraacetate  | LC <sub>50</sub> | ≥ 1 (dust)        | Rat     | OECD 403 (EU B.2) | 6                 |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) |                  | No data available |         |                   |                   |

**Irritation and corrosivity**

Skin irritation and corrosivity

| Ingredient(s)  | Result       | Species | Method             | Exposure time |
|--|--------------|---------|--------------------|---------------|
| tetrasodium ethylene diamine tetraacetate  | Not irritant | Rabbit  | Non guideline test |               |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | Corrosive    |         | Method not given   |               |

Eye irritation and corrosivity

| Ingredient(s)  | Result        | Species | Method           | Exposure time |
|--|---------------|---------|------------------|---------------|
| tetrasodium ethylene diamine tetraacetate  | Severe damage |         | Method not given |               |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | Severe damage |         | Method not given |               |

Respiratory tract irritation and corrosivity

| Ingredient(s)  | Result            | Species | Method | Exposure time |
|--|-------------------|---------|--------|---------------|
| tetrasodium ethylene diamine tetraacetate  | No data available |         |        |               |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | No data available |         |        |               |

**Sensitisation**

Sensitisation by skin contact

| Ingredient(s)  | Result          | Species    | Method                                       | Exposure time (h) |
|--|-----------------|------------|--|-------------------|
| tetrasodium ethylene diamine tetraacetate  | Not sensitising | Guinea pig | OECD 406 (EU B.6) / GPMT                     |                   |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | Sensitising     | Guinea pig | Method not given<br>OECD 406 (EU B.6) / GPMT |                   |

Sensitisation by inhalation

| Ingredient(s)  | Result            | Species | Method | Exposure time |
|--|-------------------|---------|--------|---------------|
| tetrasodium ethylene diamine tetraacetate  | No data available |         |        |               |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | No data available |         |        |               |

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Mutagenicity

| Ingredient(s)  | Result (in-vitro)                                   | Method (in-vitro) | Result (in-vivo)                                   | Method (in-vivo) |
|--|---|-------------------|--|------------------|
| tetrasodium ethylene diamine tetraacetate  | No evidence for mutagenicity, negative test results | Method not given  | No evidence of genotoxicity, negative test results | Method not given |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | No evidence for mutagenicity                        | Method not given  | No data available                                  |                  |

Carcinogenicity

| Ingredient(s)                             | Effect  |
|---|---|
| tetrasodium ethylene diamine tetraacetate | No evidence for carcinogenicity, weight-of-evidence |

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|--|--|
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | No evidence for carcinogenicity, negative test results |
|--|--|

## Toxicity for reproduction

| Ingredient(s)  | Endpoint | Specific effect | Value (mg/kg bw/d) | Species | Method | Exposure time | Remarks and other effects reported   |
|--|----------|-----------------|--------------------|---------|--------|---------------|--|
| tetrasodium ethylene diamine tetraacetate  |          |                 | No data available  |         |        |               | No evidence for reproductive toxicity  |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) |          |                 | No data available  |         |        |               | No evidence for reproductive toxicity<br>No evidence for teratogenic effects |

## Repeated dose toxicity

## Sub-acute or sub-chronic oral toxicity

| Ingredient(s)  | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|--|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| tetrasodium ethylene diamine tetraacetate  |          | No data available  |         |        |                      |                                      |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) |          | No data available  |         |        |                      |                                      |

## Sub-chronic dermal toxicity

| Ingredient(s)  | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|--|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| tetrasodium ethylene diamine tetraacetate  |          | No data available  |         |        |                      |                                      |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) |          | No data available  |         |        |                      |                                      |

## Sub-chronic inhalation toxicity

| Ingredient(s)  | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|--|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| tetrasodium ethylene diamine tetraacetate  |          | No data available  |         |        |                      |                                      |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) |          | No data available  |         |        |                      |                                      |

## Chronic toxicity

| Ingredient(s)  | Exposure route | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time | Specific effects and organs affected | Remark |
|--|----------------|----------|--------------------|---------|--------|---------------|--------------------------------------|--------|
| tetrasodium ethylene diamine tetraacetate  |                |          | No data available  |         |        |               |                                      |        |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) |                |          | No data available  |         |        |               |                                      |        |

## STOT-single exposure

| Ingredient(s)  | Affected organ(s) |
|--|-------------------|
| tetrasodium ethylene diamine tetraacetate  | No data available |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | No data available |

## STOT-repeated exposure

| Ingredient(s)  | Affected organ(s) |
|--|-------------------|
| tetrasodium ethylene diamine tetraacetate  | Respiratory tract |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | No data available |

## Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

## Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

## SECTION 12: Ecological information

## 12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

#### Aquatic short-term toxicity

Aquatic short-term toxicity - fish

| Ingredient(s)  | Endpoint         | Value (mg/l) | Species                    | Method                 | Exposure time (h) |
|--|------------------|--------------|----------------------------|------------------------|-------------------|
| tetrasodium ethylene diamine tetraacetate  | LC <sub>50</sub> | > 100        | <i>Lepomis macrochirus</i> | OPP 72-1, static (EPA) | 96                |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | LC <sub>50</sub> | 0.28         | <i>Lepomis macrochirus</i> | OECD 203 (EU C.1)      | 96                |

Aquatic short-term toxicity - crustacea

| Ingredient(s)  | Endpoint         | Value (mg/l) | Species                     | Method             | Exposure time (h) |
|--|------------------|--------------|-----------------------------|--------------------|-------------------|
| tetrasodium ethylene diamine tetraacetate  | EC <sub>50</sub> | > 100        | <i>Daphnia magna</i> Straus | DIN 38412, Part 11 | 48                |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | EC <sub>50</sub> | 0.126        | <i>Daphnia magna</i> Straus | OECD 202 (EU C.2)  | 48                |

Aquatic short-term toxicity - algae

| Ingredient(s)  | Endpoint         | Value (mg/l) | Species                                | Method                     | Exposure time (h) |
|--|------------------|--------------|--|----------------------------|-------------------|
| tetrasodium ethylene diamine tetraacetate  | EC <sub>50</sub> | > 100        | <i>Scenedesmus obliquus</i>            | 88/302/EEC, Part C, static | 72                |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | EC <sub>50</sub> | 0.003        | <i>Pseudokirchneriella subcapitata</i> | OECD 201 (EU C.3)          | 72                |

Aquatic short-term toxicity - marine species

| Ingredient(s)  | Endpoint | Value (mg/l)      | Species | Method | Exposure time (days) |
|--|----------|-------------------|---------|--------|----------------------|
| tetrasodium ethylene diamine tetraacetate  |          | No data available |         |        | -                    |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) |          | No data available |         |        | -                    |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s)  | Endpoint         | Value (mg/l) | Inoculum         | Method   | Exposure time |
|--|------------------|--------------|------------------|----------|---------------|
| tetrasodium ethylene diamine tetraacetate  | EC <sub>20</sub> | > 500        | Activated sludge | OECD 209 | 0.5 hour(s)   |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | EC <sub>20</sub> | 0.97         | Activated sludge | OECD 209 | 3 hour(s)     |

#### Aquatic long-term toxicity

Aquatic long-term toxicity - fish

| Ingredient(s)  | Endpoint | Value (mg/l)      | Species                  | Method   | Exposure time | Effects observed |
|--|----------|-------------------|--------------------------|----------|---------------|------------------|
| tetrasodium ethylene diamine tetraacetate  | NOEC     | ≥ 36.9            | <i>Brachydanio rerio</i> | OECD 210 | 35 day(s)     |                  |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) |          | No data available |                          |          |               |                  |

Aquatic long-term toxicity - crustacea

| Ingredient(s)  | Endpoint | Value (mg/l)      | Species              | Method   | Exposure time | Effects observed |
|--|----------|-------------------|----------------------|----------|---------------|------------------|
| tetrasodium ethylene diamine tetraacetate  | NOEC     | 25                | <i>Daphnia magna</i> | OECD 211 | 21 day(s)     |                  |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) |          | No data available |                      |          |               |                  |

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

| Ingredient(s)  | Endpoint | Value (mg/kg dw sediment) | Species | Method | Exposure time (days) | Effects observed |
|--|----------|---------------------------|---------|--------|----------------------|------------------|
| tetrasodium ethylene diamine tetraacetate  |          | No data available         |         |        | -                    |                  |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) |          | No data available         |         |        | -                    |                  |

#### Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

| Ingredient(s)                             | Endpoint         | Value (mg/kg dw soil) | Species               | Method   | Exposure time (days) | Effects observed |
|---|------------------|-----------------------|-----------------------|----------|----------------------|------------------|
| tetrasodium ethylene diamine tetraacetate | LD <sub>50</sub> | 156                   | <i>Eisenia fetida</i> | OECD 207 | 14                   |                  |

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|--|--|-------------------|--|--|---|--|
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) |  | No data available |  |  | - |  |
|--|--|-------------------|--|--|---|--|

Terrestrial toxicity - plants, if available:

| Ingredient(s)  | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|--|----------|-----------------------|---------|--------|----------------------|------------------|
| tetrasodium ethylene diamine tetraacetate  | NOEC     | 0.25 - 1.25           |         |        | 21                   |                  |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) |          | No data available     |         |        | -                    |                  |

Terrestrial toxicity - birds, if available:

| Ingredient(s)  | Endpoint | Value             | Species | Method | Exposure time (days) | Effects observed |
|--|----------|-------------------|---------|--------|----------------------|------------------|
| tetrasodium ethylene diamine tetraacetate  |          | No data available |         |        | -                    |                  |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) |          | No data available |         |        | -                    |                  |

Terrestrial toxicity - beneficial insects, if available:

| Ingredient(s)  | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|--|----------|-----------------------|---------|--------|----------------------|------------------|
| tetrasodium ethylene diamine tetraacetate  |          | No data available     |         |        | -                    |                  |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) |          | No data available     |         |        | -                    |                  |

Terrestrial toxicity - soil bacteria, if available:

| Ingredient(s)  | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|--|----------|-----------------------|---------|--------|----------------------|------------------|
| tetrasodium ethylene diamine tetraacetate  |          | No data available     |         |        | -                    |                  |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) |          | No data available     |         |        | -                    |                  |

**12.2 Persistence and degradability****Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

**Biodegradation**

Ready biodegradability - aerobic conditions

| Ingredient(s)  | Inoculum | Analytical method | DT <sub>50</sub> | Method    | Evaluation                 |
|--|----------|-------------------|------------------|-----------|----------------------------|
| tetrasodium ethylene diamine tetraacetate  |          |                   |                  |           | Not readily biodegradable. |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) |          | Oxygen depletion  | > 60%            | OECD 301D | Readily biodegradable      |

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

**12.3 Bioaccumulative potential**Partition coefficient n-octanol/water (log K<sub>ow</sub>)

| Ingredient(s)  | Value         | Method           | Evaluation                  | Remark |
|--|---------------|------------------|-----------------------------|--------|
| tetrasodium ethylene diamine tetraacetate  | -13           | Method not given | No bioaccumulation expected |        |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | -0.71 - +0.75 | Method not given | No bioaccumulation expected |        |

Bioconcentration factor (BCF)

| Ingredient(s)   | Value             | Species                    | Method           | Evaluation                        | Remark |
|---|-------------------|----------------------------|------------------|-----------------------------------|--------|
| tetrasodium ethylene diamine tetraacetate                   | 1.8               | <i>Lepomis macrochirus</i> | Method not given | Low potential for bioaccumulation |        |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and | No data available |                            |                  |                                   |        |



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|  |  |  |  |  |  |
|--|--|--|--|--|--|
| 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) |  |  |  |  |  |
|--|--|--|--|--|--|

**12.4 Mobility in soil**

Adsorption/Desorption to soil or sediment

| Ingredient(s)  | Adsorption coefficient Log K <sub>oc</sub> | Desorption coefficient Log K <sub>oc</sub> (des) | Method | Soil/sediment type | Evaluation                                     |
|--|--|--|--------|--------------------|--|
| tetrasodium ethylene diamine tetraacetate  | No data available                          |  |        |                    | Adsorption to solid soil phase is not expected |
| 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) | No data available                          |  |        |                    |  |

**12.5 Other adverse effects**

No other adverse effects known.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Waste from residues / unused products:**

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

**Empty packaging****Recommendation:**

Dispose of observing national or local regulations.

**Suitable cleaning agents:**

Water, if necessary with cleaning agent.

**SECTION 14: Transport information****ADG, IMO/IMDG, ICAO/IATA****14.1 UN number:** Non-dangerous goods**14.2 UN proper shipping name:** Non-dangerous goods**14.3 Transport hazard class(es):** Non-dangerous goods**14.4 Packing group:** Non-dangerous goods**14.5 Environmental hazards:** Non-dangerous goods**14.6 Special precautions for user:** Non-dangerous goods**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** Non-dangerous goods**Other relevant information:****Hazchem code:** None allocated**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations**

Globally Harmonised System of Classification and Labelling of Chemicals (GHS) as published by Safework Australia.

**Poison schedule**

A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Classification**

Globally Harmonised System of Classification and Labelling of Chemicals (GHS) as published by Safework Australia.

**Inventory listing(s)**

AICS (Australian Inventory of Chemical Substances): All components are listed on AICS, or are exempt.

**SECTION 16: Other information**

*The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract*

**SDS code:** MS31000443**Version:** 01.1**Revision:** 2018-12-13**Additional information:**

**Respirators:** In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

**Work practices - solvents:** Organic solvents may present both a health and flammability hazard. It is recommended that engineering controls should be adopted to reduce exposure where practicable (for example, if using indoors, ensure explosion proof extraction ventilation is available). Flammable or combustible liquids with explosive limits have the potential for ignition from static discharge. Refer to AS 1020 (The

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control of undesirable static electricity) and AS 1940 (The storage and handling of flammable and combustible liquids) for control procedures.

**Personal protective equipment guidelines:** The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

**Health effects from exposure:** It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Safety Data Sheet which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

**Abbreviations and acronyms:**

- DNEL - Derived No Effect Limit
- AUH - GHS Specific hazard statement
- PNEC - Predicted No Effect Concentration
- ATE - Acute Toxicity Estimate
- LD50 - Lethal Dose, 50% / Median Lethal dose
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- EC50 - effective concentration, 50%
- NOEL - No observed effect level
- NOAEL - No observed adverse effect level
- STOT-RE - Specific target organ toxicity (repeated exposure)
- STOT-SE - Specific target organ toxicity (single exposure)
- EC No. - European Community Number
- OECD - Organization for Economic Cooperation and Development

**End of Safety Data Sheet**