

**Mr Muscle Floor Cleaner**

Revision: 2015-04-05

Version: 05.0

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

**Trade name:** Mr Muscle Floor Cleaner

Mr Muscle ® Used under authority from S.C. Johnson & Son Inc., Racine, Wisconsin, U.S.A.

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses:**

For professional use only.

AISE-P403 - Floor cleaner. Manual process

**Uses advised against:** Uses other than those identified are not recommended

**1.3 Details of the supplier of the safety data sheet**

Diversey Europe Operations BV, Maarssebroeksedijk 2, 3542DN Utrecht, The Netherlands

**Contact details**

Diversey Hygiene Sales Limited

Jamestown Road, Finglas, Dublin 11, Ireland

Tel: 01 8081808 (9am - 5pm Mon-Fri)

Email: dublin.orders@sealedair.com

**1.4 Emergency telephone number**

Tel: 01 8081808 (9am - 5pm Mon-Fri)

After hours: National Poisons Centre, Beaumont Hospital, Dublin 9

Tel: 01 8379964

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

The product has been classified and labelled in accordance with Regulation (EC) No 1272/2008.

Eye Dam. 1 (H318)

**The product does not meet the criteria for classification in accordance with Directive 1999/45/EC and corresponding national legislation**

**2.2 Label elements**



**Signal word:** Danger

Contains alkyl alcohol alkoxyate [157627-86-6]. EUH208: d-limonene (Limonene), 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) (Methylchloroisothiazolinone, Methylisothiazolinone)

**Hazard statements:**

H318 - Causes serious eye damage.

EUH208 - May produce an allergic reaction.

**Precautionary statements:**

P280 - Wear eye or face protection.

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

Continue rinsing.

P310 - Immediately call a POISON CENTRE, doctor or physician.

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**2.3 Other hazards**

No other hazards known. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures**

| Ingredient(s)  | EC number              | CAS number  | REACH number      | Classification   | Classification (1999/45/EC)                | Notes | Weight percent |
|--|------------------------|-------------|-------------------|--|--|-------|----------------|
| alkyl alcohol alkoxylate<br>[157627-86-6]  | 500-337-8              | 157627-86-6 | 02-2119548515-35  | Eye Dam. 1 (H318)<br>Aquatic Chronic 3 (H412)  | Xi;R41<br>R52/53                           |       | 3-10           |
| (2-methoxymethylethoxy)propanol  | 252-104-2              | 34590-94-8  | 01-2119450011-60  | Not classified   | -  |       | 1-3            |
| d-limonene   | 227-813-5              | 5989-27-5   | 01-2119529223-47  | Flam. Liq. 3 (H226)<br>Asp. Tox. 1 (H304)<br>Skin Irrit. 2 (H315)<br>Skin Sens. 1B (H317)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410)                        | R10<br>Xi;R38-43<br>N;R50/53<br>Xn;R65     |       | 0.1-1          |
| 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) | 220-239-6<br>247-500-7 | 55965-84-9  | No data available | Acute Tox. 3 (H301)<br>Acute Tox. 3 (H311)<br>Acute Tox. 3 (H331)<br>Skin Corr. 1B (H314)<br>Skin Sens. 1 (H317)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) | T;R23/24/25<br>C;R34<br>Xi;R43<br>N;R50/53 |       | < 0.01         |

\* Polymer.

For the full text of the R, H and EUH phrases mentioned in this Section, see Section 16.

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

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.

[3] Exempted: Annex V of Regulation (EC) No 1907/2006.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

**SECTION 4: First aid measures****4.1 Description of first aid measures****Inhalation**

Get medical attention or advice if you feel unwell.

**Skin contact:**

Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.

**Eye contact:**

Immediately rinse eyes cautiously with lukewarm water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician.

**Ingestion:**

Immediately drink 1 glass of water. Get medical attention or advice if you feel unwell.

**Self-protection of first aider:**

Consider personal protective equipment as indicated in subsection 8.2.

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

No known effects or symptoms in normal use.

**Skin contact:**

No known effects or symptoms in normal use.

**Eye contact:**

Causes severe or permanent damage.

**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.

**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.

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

Wear eye/face protection.

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**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**

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 Sealed Air. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Use personal protective equipment as required. Avoid contact with eyes. Use only with adequate ventilation.

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

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

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:

| Ingredient(s)                   | Long term value(s)              | Short term value(s)              |
|---------------------------------|---------------------------------|----------------------------------|
| (2-methoxymethylethoxy)propanol | 50 ppm<br>308 mg/m <sup>3</sup> | 150 ppm<br>924 mg/m <sup>3</sup> |

Biological limit values, if available:

Recommended monitoring procedures, if available:

Additional exposure limits under the conditions of use, if available:

**DNEL/DMEL and PNEC values****Human exposure**

DNEL oral exposure - Consumer (mg/kg bw)

| Ingredient(s)  | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|--|----------------------------|-------------------------------|---------------------------|------------------------------|
| alkyl alcohol alkoxylate [157627-86-6]   | No data available          | No data available             | No data available         | No data available            |
| (2-methoxymethylethoxy)propanol  | -                          | -                             | -                         | 1.67                         |
| d-limonene   | -                          | -                             | -                         | 4.76                         |
| 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 data available             | No data available         | No data available            |

DNEL dermal exposure - Worker

| Ingredient(s)  | Short term - Local effects    | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|--|-------------------------------|--|---------------------------|---|
| alkyl alcohol alkoxylate [157627-86-6]   | No data available             | No data available                        | No data available         | No data available                       |
| (2-methoxymethylethoxy)propanol  | No data available             | -  | No data available         | 65                                      |
| d-limonene   | 0.222 mg/cm <sup>2</sup> skin | -  | 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             | No data available                        | No data available         | No data available                       |

DNEL dermal exposure - Consumer

| Ingredient(s)  | Short term - Local effects    | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|--|-------------------------------|--|---------------------------|---|
| alkyl alcohol alkoxylate [157627-86-6]   | No data available             | No data available                        | No data available         | No data available                       |
| (2-methoxymethylethoxy)propanol  | No data available             | -  | No data available         | 15                                      |
| d-limonene   | 0.111 mg/cm <sup>2</sup> skin | -  | 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             | No data available                        | No data available         | No data available                       |

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DNEL inhalatory exposure - Worker (mg/m<sup>3</sup>)

| Ingredient(s)  | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|--|----------------------------|-------------------------------|---------------------------|------------------------------|
| alkyl alcohol alkoxylate [157627-86-6]   | No data available          | No data available             | No data available         | No data available            |
| (2-methoxymethylethoxy)propanol  | -                          | -                             | -                         | 310                          |
| d-limonene   | -                          | -                             | -                         | 33.3                         |
| 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 data available             | No data available         | No data available            |

DNEL inhalatory exposure - Consumer (mg/m<sup>3</sup>)

| Ingredient(s)  | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|--|----------------------------|-------------------------------|---------------------------|------------------------------|
| alkyl alcohol alkoxylate [157627-86-6]   | No data available          | No data available             | No data available         | No data available            |
| (2-methoxymethylethoxy)propanol  | -                          | -                             | -                         | 37.2                         |
| d-limonene   | -                          | -                             | -                         | 8.33                         |
| 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 data available             | No data available         | No data available            |

## Environmental exposure

Environmental exposure - PNEC

| Ingredient(s)  | Surface water, fresh (mg/l) | Surface water, marine (mg/l) | Intermittent (mg/l) | Sewage treatment plant (mg/l) |
|--|-----------------------------|------------------------------|---------------------|-------------------------------|
| alkyl alcohol alkoxylate [157627-86-6]   | No data available           | No data available            | No data available   | No data available             |
| (2-methoxymethylethoxy)propanol  | 19                          | 1.9                          | 190                 | 4168                          |
| d-limonene   | 0.0054                      | 0.00054                      | -                   | 1.8                           |
| 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 data available            | No data available   | No data available             |

Environmental exposure - PNEC, continued

| Ingredient(s)  | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg)      | Air (mg/m <sup>3</sup> ) |
|--|------------------------------|--------------------------|-------------------|--------------------------|
| alkyl alcohol alkoxylate [157627-86-6]   | No data available            | No data available        | No data available | No data available        |
| (2-methoxymethylethoxy)propanol  | 70.2                         | 7.02                     | 2.74              | 190                      |
| d-limonene   | 1.32                         | 0.13                     | 0.262             | -                        |
| 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 data available        | No data available | No data available        |

## 8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2.

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 or goggles (EN 166).

## Hand protection:

Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.

## 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 (%):** 2.5

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

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

## 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.

## Hand protection:

Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.

## 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.

## SECTION 9: Physical and chemical properties

## Mr Muscle Floor Cleaner

## 9.1 Information on basic physical and chemical properties

Information in this section refers to the product, unless it is specifically stated that substance data is listed

## Method / remark

**Physical State:** Liquid

**Colour:** Brown

**Odour:** Slightly perfumed

**Odour threshold:** Not applicable

**pH:** ≈ 9 (neat)

**Melting point/freezing point (°C):** Not determined

**Initial boiling point and boiling range (°C):** Not determined

Substance data, boiling point

| Ingredient(s)  | Value (°C)        | Method           | Atmospheric pressure (hPa) |
|--|-------------------|------------------|----------------------------|
| alkyl alcohol alkoxylate [157627-86-6]   | No data available |                  |                            |
| (2-methoxymethylethoxy)propanol  | 189.6             | Method not given | 1013                       |
| d-limonene   | 175-178           | Method not given | 1013                       |
| 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 |                  |                            |

## Method / remark

**Flash point (°C):** Not applicable.

**Sustained combustion:** Not determined

**Evaporation rate:** Not determined

**Flammability (solid, gas):** Not determined

**Upper/lower flammability limit (%):** Not determined

Substance data, flammability or explosive limits, if available:

| Ingredient(s)                   | Lower limit (% vol) | Upper limit (% vol) |
|---------------------------------|---------------------|---------------------|
| (2-methoxymethylethoxy)propanol | 1.1                 | 14                  |
| d-limonene                      | 0.7                 | 6.1                 |

## Method / remark

**Vapour pressure:** Not determined

Substance data, vapour pressure

| Ingredient(s)  | Value (Pa)        | Method           | Temperature (°C) |
|--|-------------------|------------------|------------------|
| alkyl alcohol alkoxylate [157627-86-6]   | No data available |                  |                  |
| (2-methoxymethylethoxy)propanol  | 5500              | Method not given | 20               |
| d-limonene   | 190-230           | Method not given | 20               |
| 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 |                  |                  |

## Method / remark

**Vapour density:** Not determined

**Relative density:** 1.00 g/cm<sup>3</sup> (20 °C)

**Solubility in / Miscibility with Water:** Fully miscible

Substance data, solubility in water

| Ingredient(s)  | Value (g/l)       | Method           | Temperature (°C) |
|--|-------------------|------------------|------------------|
| alkyl alcohol alkoxylate [157627-86-6]   | No data available |                  |                  |
| (2-methoxymethylethoxy)propanol  | Soluble           | Method not given | 20               |
| d-limonene   | Insoluble         | Method not given | 20               |
| 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 |                  |                  |

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

## Method / remark

**Autoignition temperature:** Not determined

**Decomposition temperature:** Not determined

**Viscosity:** ≈ 700 mPa.s (20 °C)

**Explosive properties:** Not explosive.

**Oxidising properties:** Not oxidising

## 9.2 Other information

**Surface tension (N/m):** Not determined

**Corrosion to metals:** Not corrosive

Substance data, dissociation constant, if available:

## SECTION 10: Stability and reactivity

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**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**

No data is available on the mixture

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) |
|--|------------------|-------------------|---------|------------------|-------------------|
| alkyl alcohol alkoxylate [157627-86-6]   |                  | No data available |         |                  |                   |
| (2-methoxymethylethoxy)propanol  | LD <sub>50</sub> | > 4000            | Rat     | Method not given |                   |
| d-limonene   | LD <sub>50</sub> | 4400 - 5100       | Rat     | 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> | 457               | Rat     | Method not given |                   |

Acute dermal toxicity

| Ingredient(s)  | Endpoint         | Value (mg/kg)     | Species | Method           | Exposure time (h) |
|--|------------------|-------------------|---------|------------------|-------------------|
| alkyl alcohol alkoxylate [157627-86-6]   |                  | No data available |         |                  |                   |
| (2-methoxymethylethoxy)propanol  | LD <sub>50</sub> | 9510              | Rabbit  | Method not given |                   |
| d-limonene   | 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) |
|--|----------|-------------------|---------|--------|-------------------|
| alkyl alcohol alkoxylate [157627-86-6]   |          | No data available |         |        |                   |
| (2-methoxymethylethoxy)propanol  |          | No data available |         |        |                   |
| d-limonene   |          | 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 |         |        |                   |

**Irritation and corrosivity**

Skin irritation and corrosivity

| Ingredient(s)  | Result            | Species | Method           | Exposure time |
|--|-------------------|---------|------------------|---------------|
| alkyl alcohol alkoxylate [157627-86-6]   | No data available |         |                  |               |
| (2-methoxymethylethoxy)propanol  | Not irritant      |         | Method not given |               |
| d-limonene   | Irritant          | 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) | Corrosive         |         | Method not given |               |

Eye irritation and corrosivity

| Ingredient(s)                          | Result            | Species | Method           | Exposure time |
|--|-------------------|---------|------------------|---------------|
| alkyl alcohol alkoxylate [157627-86-6] | No data available |         |                  |               |
| (2-methoxymethylethoxy)propanol        | Not corrosive or  |         | Method not given |               |

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|  |                   |  |                  |  |
|--|-------------------|--|------------------|--|
|  | irritant          |  |                  |  |
| d-limonene   | 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) | Severe damage     |  | Method not given |  |

## Respiratory tract irritation and corrosivity

| Ingredient(s)  | Result            | Species | Method | Exposure time |
|--|-------------------|---------|--------|---------------|
| alkyl alcohol alkoxylate [157627-86-6]   | No data available |         |        |               |
| (2-methoxymethylethoxy)propanol  | No data available |         |        |               |
| d-limonene   | 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) |
|--|-------------------|------------|------------------|-------------------|
| alkyl alcohol alkoxylate [157627-86-6]   | No data available |            |                  |                   |
| (2-methoxymethylethoxy)propanol  | Not sensitising   |            | Method not given |                   |
| d-limonene   | Sensitising       | Guinea pig | 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) | Sensitising       |            | Method not given |                   |

## Sensitisation by inhalation

| Ingredient(s)  | Result            | Species | Method | Exposure time |
|--|-------------------|---------|--------|---------------|
| alkyl alcohol alkoxylate [157627-86-6]   | No data available |         |        |               |
| (2-methoxymethylethoxy)propanol  | No data available |         |        |               |
| d-limonene   | 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) |
|--|---|-------------------|-------------------|------------------|
| alkyl alcohol alkoxylate [157627-86-6]   | No data available                                   |                   | No data available |                  |
| (2-methoxymethylethoxy)propanol  | No evidence for mutagenicity, negative test results | Method not given  | No data available |                  |
| d-limonene   | No data available                                   |                   | 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 evidence for mutagenicity                        | Method not given  | No data available |                  |

## Carcinogenicity

| Ingredient(s)  | Effect   |
|--|--|
| alkyl alcohol alkoxylate [157627-86-6]   | No data available                                      |
| (2-methoxymethylethoxy)propanol  | No evidence for carcinogenicity, negative test results |
| d-limonene   | 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 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  |
|--|----------|------------------------|--------------------|---------|--------|---------------|---|
| alkyl alcohol alkoxylate [157627-86-6]   |          |                        | No data available  |         |        |               |   |
| (2-methoxymethylethoxy)propanol  |          | Developmental toxicity | No data available  |         |        |               | No evidence for reproductive toxicity                                     |
| d-limonene   |          |                        | 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  |         |        |               | No evidence for reproductive toxicity 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 |
|--|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| alkyl alcohol alkoxylate [157627-86-6]   |          | No data available  |         |        |                      |                                      |
| (2-methoxymethylethoxy)propanol  |          | No data available  |         |        |                      |                                      |
| d-limonene   |          | 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  |         |        |                      |                                      |

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## Sub-chronic dermal toxicity

| Ingredient(s)  | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|--|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| alkyl alcohol alkoxyate [157627-86-6]  |          | No data available  |         |        |                      |                                      |
| (2-methoxymethylethoxy)propanol  |          | No data available  |         |        |                      |                                      |
| d-limonene   |          | 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 |
|--|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| alkyl alcohol alkoxyate [157627-86-6]  |          | No data available  |         |        |                      |                                      |
| (2-methoxymethylethoxy)propanol  |          | No data available  |         |        |                      |                                      |
| d-limonene   |          | 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 |
|--|----------------|----------|--------------------|---------|--------|---------------|--------------------------------------|--------|
| alkyl alcohol alkoxyate [157627-86-6]  |                |          | No data available  |         |        |               |                                      |        |
| (2-methoxymethylethoxy)propanol  |                |          | No data available  |         |        |               |                                      |        |
| d-limonene   |                |          | 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) |
|--|-------------------|
| alkyl alcohol alkoxyate [157627-86-6]  | No data available |
| (2-methoxymethylethoxy)propanol  | No data available |
| d-limonene   | 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) |
|--|-------------------|
| alkyl alcohol alkoxyate [157627-86-6]  | No data available |
| (2-methoxymethylethoxy)propanol  | No data available |
| d-limonene   | 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 |

## 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) |
|---------------------------------------|----------|-------------------|---------|--------|-------------------|
| alkyl alcohol alkoxyate [157627-86-6] |          | No data available |         |        |                   |



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|  |                  |        |                            |                  |    |
|--|------------------|--------|----------------------------|------------------|----|
| (2-methoxymethylethoxy)propanol  | LC <sub>50</sub> | > 1000 | <i>Poecilia reticulata</i> | Method not given | 96 |
| d-limonene   | LC <sub>50</sub> | 0.72   | <i>Pimephales promelas</i> | OECD 203         | 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         | 96 |

## Aquatic short-term toxicity - crustacea

| Ingredient(s)  | Endpoint         | Value (mg/l)      | Species                     | Method           | Exposure time (h) |
|--|------------------|-------------------|-----------------------------|------------------|-------------------|
| alkyl alcohol alkoxylate [157627-86-6]   |                  | No data available |                             |                  |                   |
| (2-methoxymethylethoxy)propanol  | EC <sub>50</sub> | 1919              | <i>Daphnia magna Straus</i> | Method not given | 48                |
| d-limonene   | EC <sub>50</sub> | 0.36              | <i>Daphnia magna Straus</i> | OECD 202         | 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 Straus</i> | OECD 202         | 48                |

## Aquatic short-term toxicity - algae

| Ingredient(s)  | Endpoint                       | Value (mg/l)      | Species                                | Method           | Exposure time (h) |
|--|--------------------------------|-------------------|--|------------------|-------------------|
| alkyl alcohol alkoxylate [157627-86-6]   |                                | No data available |  |                  |                   |
| (2-methoxymethylethoxy)propanol  | EC <sub>50</sub>               | > 969             | <i>Selenastrum capricornutum</i>       | Method not given | 72                |
| d-limonene   | E <sub>r</sub> C <sub>50</sub> | 150               | <i>Desmodesmus subspicatus</i>         | OECD 201         | 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         | 72                |

## Aquatic short-term toxicity - marine species

| Ingredient(s)  | Endpoint | Value (mg/l)      | Species | Method | Exposure time (days) |
|--|----------|-------------------|---------|--------|----------------------|
| alkyl alcohol alkoxylate [157627-86-6]   |          | No data available |         |        |                      |
| (2-methoxymethylethoxy)propanol  |          | No data available |         |        | -                    |
| d-limonene   |          | 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 |
|--|------------------|-------------------|---------------------------|------------------|---------------|
| alkyl alcohol alkoxylate [157627-86-6]   |                  | No data available |                           |                  |               |
| (2-methoxymethylethoxy)propanol  | EC <sub>10</sub> | 4168              | <i>Pseudomonas putida</i> | Method not given |               |
| d-limonene   |                  | 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) | EC <sub>20</sub> | 0.97              | <i>Activated sludge</i>   | 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 |
|--|----------|-------------------|---------|--------|---------------|------------------|
| alkyl alcohol alkoxylate [157627-86-6]   |          | No data available |         |        |               |                  |
| (2-methoxymethylethoxy)propanol  |          | No data available |         |        |               |                  |
| d-limonene   |          | 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 |         |        |               |                  |

## Aquatic long-term toxicity - crustacea

| Ingredient(s)  | Endpoint | Value (mg/l)      | Species              | Method           | Exposure time | Effects observed |
|--|----------|-------------------|----------------------|------------------|---------------|------------------|
| alkyl alcohol alkoxylate [157627-86-6]   |          | No data available |                      |                  |               |                  |
| (2-methoxymethylethoxy)propanol  | NOEC     | > 0.5             | <i>Daphnia magna</i> | Method not given | 22 day(s)     |                  |
| d-limonene   |          | 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 |                      |                  |               |                  |

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

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| Ingredient(s)  | Endpoint | Value (mg/kg dw sediment) | Species | Method | Exposure time (days) | Effects observed |
|--|----------|---------------------------|---------|--------|----------------------|------------------|
| alkyl alcohol alkoxylate [157627-86-6]   |          | No data available         |         |        |                      |                  |
| (2-methoxymethylethoxy)propanol  |          | No data available         |         |        | -                    |                  |
| d-limonene   |          | 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 |
|--|----------|-----------------------|---------|--------|----------------------|------------------|
| (2-methoxymethylethoxy)propanol  |          | No data available     |         |        | -                    |                  |
| d-limonene   |          | 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 - plants, if available:

| Ingredient(s)  | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|--|----------|-----------------------|---------|--------|----------------------|------------------|
| (2-methoxymethylethoxy)propanol  |          | No data available     |         |        | -                    |                  |
| d-limonene   |          | 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 - birds, if available:

| Ingredient(s)  | Endpoint | Value             | Species | Method | Exposure time (days) | Effects observed |
|--|----------|-------------------|---------|--------|----------------------|------------------|
| (2-methoxymethylethoxy)propanol  |          | No data available |         |        | -                    |                  |
| d-limonene   |          | 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 |
|--|----------|-----------------------|---------|--------|----------------------|------------------|
| (2-methoxymethylethoxy)propanol  |          | No data available     |         |        | -                    |                  |
| d-limonene   |          | 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 |
|--|----------|-----------------------|---------|--------|----------------------|------------------|
| (2-methoxymethylethoxy)propanol  |          | No data available     |         |        | -                    |                  |
| d-limonene   |          | 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:

| Ingredient(s)                   | Half-life time | Method           | Evaluation              | Remark |
|---------------------------------|----------------|------------------|-------------------------|--------|
| (2-methoxymethylethoxy)propanol | < 1 day(s)     | Method not given | Rapidly photodegradable |        |

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

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**Biodegradation**

Ready biodegradability - aerobic conditions

| Ingredient(s)  | Inoculum | Analytical method | DT <sub>50</sub>  | Method    | Evaluation            |
|--|----------|-------------------|-------------------|-----------|-----------------------|
| alkyl alcohol alkoxylate [157627-86-6]   |          |                   |                   |           | No data available     |
| (2-methoxymethylethoxy)propanol  |          | Oxygen depletion  | 75 % in 28 day(s) | OECD 301F | Readily biodegradable |
| d-limonene   |          |                   | 80 % in 28 day(s) | OECD 301D | 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:

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**12.3 Bioaccumulative potential**

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s)  | Value             | Method           | Evaluation                         | Remark |
|--|-------------------|------------------|------------------------------------|--------|
| alkyl alcohol alkoxylate [157627-86-6]   | No data available |                  |                                    |        |
| (2-methoxymethylethoxy)propanol  | 1.01              | Method not given | Low potential for bioaccumulation  |        |
| d-limonene   | No data available |                  | High potential for bioaccumulation |        |
| 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 |
|--|-------------------|---------|------------------|------------------------------------|--------|
| alkyl alcohol alkoxylate [157627-86-6]   | No data available |         |                  |                                    |        |
| (2-methoxymethylethoxy)propanol  | No data available |         |                  |                                    |        |
| d-limonene   | 683.1             |         | Method not given | High potential for bioaccumulation |        |
| 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 |         |                  |                                    |        |

**12.4 Mobility in soil**

Adsorption/Desorption to soil or sediment

| Ingredient(s)  | Adsorption coefficient Log Koc | Desorption coefficient Log Koc(des) | Method | Soil/sediment type | Evaluation                          |
|--|--------------------------------|-------------------------------------|--------|--------------------|-------------------------------------|
| alkyl alcohol alkoxylate [157627-86-6]   | No data available              |                                     |        |                    |                                     |
| (2-methoxymethylethoxy)propanol  | No data available              |                                     |        |                    | High potential for mobility in soil |
| d-limonene   | No data available              |                                     |        |                    | High potential for mobility in soil |
| 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 Results of PBT and vPvB assessment**

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

**12.6 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.

**European Waste Catalogue:**

20 01 29\* - detergents containing dangerous substances.

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

Dispose of observing national or local regulations.

**Suitable cleaning agents:**

Water, if necessary with cleaning agent.

**SECTION 14: Transport information**

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**ADR, RID, ADN, 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

Class: -

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 73/78 and the IBC Code: The product is not transported in bulk tankers.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII): Not applicable.

**Ingredients according to EC Detergents Regulation 648/2004**

non-ionic surfactants, soap

&lt; 5%

perfumes, Limonene, Dimethylol Glycol, Geraniol, Methylchloroisothiazolinone,

Methylisothiazolinone

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out on the mixture

**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*

MSDS code: MSDS4492

Version: 05.0

Revision: 2015-04-05

**Reason for revision:**

Overall design adjusted in accordance with Amendment 453/2010, Annex II of Regulation (EC) No 1907/2006, This data sheet contains changes from the previous version in section(s):, 3, 8, 9, 13, 15

**Classification procedure**

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

**Full text of the R, H and EUH phrases mentioned in section 3:****Abbreviations and acronyms:**

- AISE - The International Association for Soaps, Detergents and Maintenance Products
- DNEL - Derived No Effect Limit
- EUH - CLP Specific hazard statement
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- ATE - Acute Toxicity Estimate

**End of Safety Data Sheet**