



## Mr Muscle(\*) Multi Surface

Revision: 2012-11-29

Version 06

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

#### 1.1 Product identifier

Trade name: Mr Muscle(\*) Multi Surface

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

##### Identified uses:

For professional use only

AISE-P301 - General purpose cleaner. Manual process

AISE-P302 - General purpose cleaner. Spray and wipe 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 Ltd

##### Contact details

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: MSDSinfoUK@sealedair.com

#### 1.4 Emergency telephone number

For medical or environmental emergency only:

call 0800 052 0185

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

#### 2.2 Label elements

##### Safety phrases:

S23d - Do not breathe spray.

S51 - Use only in well-ventilated areas.

##### Further indications on the label:

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

Safety data sheet available for professional user on request.

#### 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 (EC) 1272/2008               | Notes | Weight percent |
|---------------------|-----------|------------|------------------|----------------|---|-------|----------------|
| 3-butoxypropan-2-ol | 225-878-4 | 5131-66-8  | 01-2119475527-28 | Xi; R36/38     | Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319) |       | 1-3            |

\* 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.

## Mr Muscle(\*) Multi Surface

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

Remove from source of exposure. If discomfort persists, obtain medical attention.

**Skin contact**

Not required under normal use. Rinse with plenty of water. If irritation develops get medical attention.

**Eye contact**

Wash off immediately with plenty of water. Get medical attention.

**Ingestion**

Remove material from mouth. Immediately drink 1-2 glasses of water or milk. If large amounts swallowed or symptoms develop, get medical attention.

**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**

Can cause irritation.

**Skin contact**

Unlikely to be irritant in normal use.

**Eye contact**

Unlikely to be irritant in normal use.

**Ingestion**

Unlikely to be harmful unless excessive amount ingested.

**Sensitisation**

No known effects.

**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**

No special measures required.

**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****Advice on safe handling**

Handle in accordance with good industrial hygiene and safety practice. Do not mix with other products unless advised by Diversey. Use only with adequate ventilation. Avoid formation of aerosol. For advice on general occupational hygiene see subsection 8.2. For environmental exposure controls see subsection 8.2. For incompatible materials see subsection 10.5.

**Prevention of fire and explosion**

No special precautions required.

**7.2 Conditions for safe storage, including any incompatibilities****Requirements for storage rooms / facilities:**

In accordance with local and national regulations.

**Combined storage in storage rooms / facilities:**

In accordance with local and national regulations. For incompatible materials see subsection 10.5.

**Basic storage conditions**

Store in original container. For conditions to avoid see subsection 10.4.

**7.3 Specific end use(s)**

No specific advice for end use available.

## Mr Muscle(\*) Multi Surface

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Workplace exposure limits**

Air limit values, if available:

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 |
|---------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| 3-butoxypropan-2-ol | 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) |
|---------------------|----------------------------|--|---------------------------|---|
| 3-butoxypropan-2-ol | 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) |
|---------------------|----------------------------|--|---------------------------|---|
| 3-butoxypropan-2-ol | No data available          | No data available                        | No data available         | No data available                       |

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 |
|---------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| 3-butoxypropan-2-ol | 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 |
|---------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| 3-butoxypropan-2-ol | 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) |
|---------------------|-----------------------------|------------------------------|---------------------|-------------------------------|
| 3-butoxypropan-2-ol | 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> ) |
|---------------------|------------------------------|--------------------------|-------------------|--------------------------|
| 3-butoxypropan-2-ol | No data available            | No data available        | No data available | No data available        |

**8.2 Exposure controls****General health and safety measures**

Handle in accordance with good industrial hygiene and safety practice. Do not breathe gases, vapour, spray or aerosols. Use only in well-ventilated areas. Avoid contact with eyes.

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:

**Appropriate engineering controls:** Use only in well ventilated areas.  
**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:**

Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided.

**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**

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

**Method / remark**

**Physical State:** Liquid

**Colour** Clear Colourless

**Odour** Slightly perfumed

**Odour threshold:** Not applicable.

**pH:** ≈ 11 (neat)

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

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

**Flash point (°C):** ≈ 54

closed cup

**Sustained combustion:** This product with a flashpoint between 21°C and 60°C does not support combustion

UN Manual of Tests and Criteria, section 37, L.2

**Evaporation rate:** Not determined

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

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

**Vapour pressure:** Not determined

**Vapour density:** Not determined

**Relative density:** 0.99 g/cm<sup>3</sup> (20°C)

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

**Autoignition temperature:** Not determined

**Decomposition temperature:** Not determined

**Viscosity:** Not determined

**Explosive properties** Not explosive.

**Oxidising properties:** Not oxidising.

**9.2 Other information**

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

**Corrosion to metals**

(according to IMDG/ADR regulation): Not determined

**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**

Reacts with acids.

**10.6 Hazardous decomposition products**

None known under normal storage and use conditions.

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

No test data is available on the mixture

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

## Mr Muscle(\*) Multi Surface

**Acute toxicity**

## Acute oral toxicity

| Ingredient(s)       | Endpoint         | Value (mg/kg) | Species | Method           | Exposure time (h) |
|---------------------|------------------|---------------|---------|------------------|-------------------|
| 3-butoxypropan-2-ol | LD <sub>50</sub> | 3300          | Rat     | Method not given |                   |

## Acute dermal toxicity

| Ingredient(s)       | Endpoint         | Value (mg/kg) | Species | Method           | Exposure time (h) |
|---------------------|------------------|---------------|---------|------------------|-------------------|
| 3-butoxypropan-2-ol | LD <sub>50</sub> | > 2000        | Rat     | Method not given |                   |

## Acute inhalative toxicity

| Ingredient(s)       | Endpoint         | Value (mg/l) | Species | Method           | Exposure time (h) |
|---------------------|------------------|--------------|---------|------------------|-------------------|
| 3-butoxypropan-2-ol | LC <sub>50</sub> | 3.5          | Rat     | Method not given | 4                 |

**Irritation and corrosivity**

## Skin irritation and corrosivity

| Ingredient(s)       | Result            | Species | Method | Exposure time |
|---------------------|-------------------|---------|--------|---------------|
| 3-butoxypropan-2-ol | No data available |         |        |               |

## Eye irritation and corrosivity

| Ingredient(s)       | Result            | Species | Method | Exposure time |
|---------------------|-------------------|---------|--------|---------------|
| 3-butoxypropan-2-ol | No data available |         |        |               |

## Respiratory tract irritation and corrosivity

| Ingredient(s)       | Result            | Species | Method | Exposure time |
|---------------------|-------------------|---------|--------|---------------|
| 3-butoxypropan-2-ol | No data available |         |        |               |

**Sensitisation**

## Sensitisation by skin contact

| Ingredient(s)       | Result            | Species | Method | Exposure time (h) |
|---------------------|-------------------|---------|--------|-------------------|
| 3-butoxypropan-2-ol | No data available |         |        |                   |

## Sensitisation by inhalation

| Ingredient(s)       | Result            | Species | Method | Exposure time |
|---------------------|-------------------|---------|--------|---------------|
| 3-butoxypropan-2-ol | No data available |         |        |               |

**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 |
|---------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| 3-butoxypropan-2-ol |          | 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 |
|---------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| 3-butoxypropan-2-ol |          | 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 |
|---------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| 3-butoxypropan-2-ol |          | 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 |
|---------------------|----------------|----------|--------------------|---------|--------|---------------|--------------------------------------|--------|
| 3-butoxypropan-2-ol |                |          | No data available  |         |        |               |                                      |        |

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

## Mixture data:

Based on available data, the classification criteria are not met.

Substance data, where relevant and available

## Carcinogenicity

| Ingredient(s)       | Effect            |
|---------------------|-------------------|
| 3-butoxypropan-2-ol | No data available |

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## Mutagenicity

| Ingredient(s)       | Result (in-vitro) | Method (in-vitro) | Result (in-vivo)  | Method (in-vivo) |
|---------------------|-------------------|-------------------|-------------------|------------------|
| 3-butoxypropan-2-ol | No data available |                   | No data available |                  |

## Toxicity for reproduction

| Ingredient(s)       | Endpoint | Specific effect | Value (mg/kg bw/d) | Species | Method | Exposure time | Remarks and other effects reported |
|---------------------|----------|-----------------|--------------------|---------|--------|---------------|------------------------------------|
| 3-butoxypropan-2-ol |          |                 | No data available  |         |        |               |                                    |

## 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

## Mixtures

No test 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) |
|---------------------|------------------|--------------|---------|------------------|-------------------|
| 3-butoxypropan-2-ol | LC <sub>50</sub> | 560 - 1000   | Fish    | Method not given | 96                |

## Aquatic short-term toxicity - crustacea

| Ingredient(s)       | Endpoint         | Value (mg/l) | Species | Method           | Exposure time (h) |
|---------------------|------------------|--------------|---------|------------------|-------------------|
| 3-butoxypropan-2-ol | LC <sub>50</sub> | > 1000       | Daphnia | Method not given | 48                |

## Aquatic short-term toxicity - algae

| Ingredient(s)       | Endpoint | Value (mg/l)      | Species | Method | Exposure time (h) |
|---------------------|----------|-------------------|---------|--------|-------------------|
| 3-butoxypropan-2-ol |          | No data available |         |        |                   |

## Aquatic short-term toxicity - marine species

| Ingredient(s)       | Endpoint | Value (mg/l)      | Species | Method | Exposure time (days) |
|---------------------|----------|-------------------|---------|--------|----------------------|
| 3-butoxypropan-2-ol |          | No data available |         |        |                      |

## Impact on sewage plants - toxicity to bacteria

| Ingredient(s)       | Endpoint         | Value (mg/l) | Inoculum | Method           | Exposure time |
|---------------------|------------------|--------------|----------|------------------|---------------|
| 3-butoxypropan-2-ol | EC <sub>50</sub> | > 1000       | Bacteria | Method not given |               |

## Aquatic long-term toxicity

## Aquatic long-term toxicity - fish

| Ingredient(s)       | Endpoint | Value (mg/l)      | Species | Method | Exposure time | Effects observed |
|---------------------|----------|-------------------|---------|--------|---------------|------------------|
| 3-butoxypropan-2-ol |          | No data available |         |        |               |                  |

## Aquatic long-term toxicity - crustacea

| Ingredient(s)       | Endpoint | Value (mg/l)      | Species | Method | Exposure time | Effects observed |
|---------------------|----------|-------------------|---------|--------|---------------|------------------|
| 3-butoxypropan-2-ol |          | No data available |         |        |               |                  |

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

## Terrestrial toxicity

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

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

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Terrestrial toxicity - soil bacteria, if 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            |
|---------------------|----------|-------------------|------------------|------------------|-----------------------|
| 3-butoxypropan-2-ol |          |                   |                  | Method not given | 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 |
|---------------------|-------|------------------|-----------------------------------|--------|
| 3-butoxypropan-2-ol | 0.98  | Method not given | Low potential for bioaccumulation |        |

Bioconcentration factor (BCF)

| Ingredient(s)       | Value             | Species | Method | Evaluation | Remark |
|---------------------|-------------------|---------|--------|------------|--------|
| 3-butoxypropan-2-ol | No data available |         |        |            |        |

**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                                       |
|---------------------|--|--|--------|--------------------|--|
| 3-butoxypropan-2-ol | No data available                          |  |        |                    | Potential for mobility in soil, soluble in water |

**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** Dispose of in compliance with all Federal, state, provincial, and local laws and regulations.  
**European Waste Catalogue:** 20 01 30 - detergents other than those mentioned in 20 01 29.

**Empty packaging**

**Recommendation:** Dispose of observing national or local regulations.  
**Suitable cleaning agents** Water, if necessary with cleaning agent.

**SECTION 14: Transport information****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**

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

**Mr Muscle(\*) Multi Surface**

perfumes

**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*

*(\*) This brand is used under authority from SC Johnson & Son Inc. Racine, Wisconsin, USA*

**MSDS code:** MSDS4517

**Version** 06

**Revision:** 2012-11-29

**Reason for revision:**

Overall design adjusted in accordance with Regulation (EC) No 1907/2006, Annex II

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

- R10 - Flammable.
- R36/38 - Irritating to eyes and skin.
- H315 - Causes skin irritation.
- H319 - Causes serious eye irritation.

**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

**End of Safety Data Sheet**