

**SAFETY DATA SHEET**

(according to Regulation (EC) No. 2015/830)

**Mr Muscle® Multi-Surface Cleaner (Professional)**

Version 1.0

Revision Date 02.12.2016

Print Date 27.03.2017

Specification Number: 350000025918

SITE FORM Number:  
30000000000000010979.002**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier** : Mr Muscle® Multi-Surface Cleaner (Professional)**1.2 Relevant identified uses of the substance or mixture and uses advised against****Use of the Substance/Mixture** : Washing and cleaning products (including solvent based products)**Uses advised against** : None identified**1.3 Details of the supplier of the safety data sheet** : SC Johnson Ltd.  
Frimley Green  
Camberley

GU16 7AJ

**Telephone** : +441276852000**E-mail address** : ask.uk@scj.com**1.4 Emergency telephone number** : Consumer Care Center:  
UK - 0800 353 353  
Ireland - 1800 409 176**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

Classification according to Regulation (EU) 1272/2008 with the correlation table 67/548/EEC or 1999/45/EC (Annex VII of CLP)

This product does not meet the criteria for classification in any hazard class according to regulation (EC) 1272/2008.

**2.2 Label elements**

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

**Active Ingredients (BPR)**

Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides 0.11% (0.11g/100g)

Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides 0.11% (0.11g/100g)

**Precautionary statements**

(P102) Keep out of reach of children.

(P101) If medical advice is needed, have product container or label at hand.

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

**SAFETY DATA SHEET**

(according to Regulation (EC) No. 2015/830)

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Specification Number: 350000025918

SITE FORM Number:  
30000000000000010979.002

(P260) Do not breathe spray.  
(P264) Wash hands thoroughly after handling.

**EUH Statements**

(EUH210) Safety data sheet available on request.

**Additional Labelling**

Use only in well-ventilated areas.  
As with any household product avoid prolonged skin contact with this product  
For professional users only.

**Detergents regulations** :**Contains**

&lt; 5% non-ionic surfactants, Disinfectants, perfume , Limonene

**2.3 Other hazards** : None identified**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Hazardous components**

| Chemical Name   | CAS-No./EC No           | Reg. No | Classification according to Regulation (EC) No 1272/2008 (CLP)   | Weight percent   |
|---|-------------------------|---------|--|------------------|
| Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | 68391-01-5<br>269-919-4 | -       | Skin corrosion<br>Category 1<br>H314<br>Chronic aquatic toxicity<br>Category 2<br>H411<br>Acute aquatic toxicity<br>Category 1<br>H400<br>Acute toxicity | >= 0.10 - < 0.50 |

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Specification Number: 350000025918  
SITE FORM Number:  
30000000000000010979.002

|   |                         |   |   |                  |
|---|-------------------------|---|---|------------------|
|   |                         |   | Category 4<br>H302<br>Acute toxicity<br>Category 3<br>H311<br>Acute toxicity<br>Category 2<br>H330<br>M-Factor Acute - 10   |                  |
| Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | 85409-23-0<br>287-090-7 | - | Chronic aquatic toxicity<br>Category 1<br>H410<br>Acute aquatic toxicity<br>Category 1<br>H400<br>Acute toxicity<br>Category 4<br>H302<br>Acute toxicity<br>Category 3<br>H311<br>Acute toxicity<br>Category 2<br>H330<br>M-Factor Acute - 10<br>M-Factor Chronic - 1 | >= 0.10 - < 0.50 |

**SAFETY DATA SHEET**

(according to Regulation (EC) No. 2015/830)



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SITE FORM Number:  
30000000000000010979.002

**Additional Information**

For the full text of the H-Statements mentioned in this Section, see Section 16.

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**SECTION 4: FIRST AID MEASURES**

**4.1 Description of first aid measures**

- Inhalation : No special requirements
- Skin contact : Rinse with plenty of water.  
Get medical attention if irritation develops and persists.
- Eye contact : Rinse with plenty of water.  
Get medical attention if irritation develops and persists.
- Ingestion : If symptoms persist, call a physician.

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

- Eyes : No adverse effects expected when used as directed.
- Skin effect : No adverse effects expected when used as directed.
- Inhalation : No adverse effects expected when used as directed.
- Ingestion : No adverse effects expected when used as directed.

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

See Description of first aid measures unless otherwise stated.

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**SECTION 5: FIREFIGHTING MEASURES**

**5.1 Extinguishing media**

- Suitable : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable : None identified

- 5.2 Special hazards arising from the substance or mixture** : In case of fire and/or explosion do not breathe fumes.  
Exposure to decomposition products may be a hazard to health.

**SAFETY DATA SHEET**

(according to Regulation (EC) No. 2015/830)



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Version 1.0  
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Print Date 27.03.2017  
Specification Number: 350000025918  
SITE FORM Number:  
30000000000000010979.002

**5.3 Advice for firefighters** : In the event of fire, wear self-contained breathing apparatus.  
Wear suitable protective clothing and gloves.  
Refer to current EN or National standard as appropriate.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures** : Use personal protective equipment.

**6.2 Environmental precautions** : Outside of normal use, avoid release to the environment.  
Prevent large amounts of product from entering drains.  
Use appropriate containment to avoid environmental contamination.  
Prevent further leakage or spillage if safe to do so.

**6.3 Methods and materials for containment and cleaning up** : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Clean residue from spill site.  
Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections** : For personal protection see section 8.  
For disposal considerations see section 13.

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**SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling** : For personal protection see section 8.  
Normal measures for preventive fire protection.

**7.2 Conditions for safe storage, including any incompatibilities** : Do not freeze.  
Keep out of the reach of children.  
No decomposition if stored and applied as directed.

**7.3 Specific end use(s)** : Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
Washing and cleaning products (including solvent based products)

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

**Occupational Exposure Limit Values**

Contains no substances with occupational exposure limit values.

**SAFETY DATA SHEET**

(according to Regulation (EC) No. 2015/830)



**Mr Muscle® Multi-Surface Cleaner (Professional)**

Version 1.0  
Revision Date 02.12.2016

Print Date 27.03.2017  
Specification Number: 350000025918  
SITE FORM Number:  
30000000000000010979.002

Refer to current EN or National standard as appropriate.

**8.2 Exposure controls**

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection : Wear suitable gloves.  
Nitrile gloves – Thickness 0.12mm; Breakthrough time >2 hours.  
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.  
Before removing gloves clean them with soap and water.
- Eye/face protection : No special requirements.
- Skin and body protection : Wear suitable protective clothing.  
Wash contaminated clothing before re-use.
- Other information : Wash hands before breaks and at the end of workday.
- Environmental Exposure Controls : Refer to section 6.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

- Appearance : liquid
- Colour : colourless
- Odour : Citrus
- Odour Threshold : Test not applicable for this product type
- pH : 10.8 - 11.4
- Melting point/freezing point : Test not applicable for this product type
- Initial boiling point and boiling range : > 100 °C
- Flash point : > 100 °C
- Evaporation rate : Test not applicable for this product type
- Flammability (solid, gas) : The product is not flammable.

**SAFETY DATA SHEET**

(according to Regulation (EC) No. 2015/830)



**Mr Muscle® Multi-Surface Cleaner (Professional)**

Version 1.0

Revision Date 02.12.2016

Print Date 27.03.2017

Specification Number: 350000025918

SITE FORM Number:  
30000000000000010979.002

|  |   |   |   |
|--|---|---|---|
| Upper/lower flammability or explosive limits | : | Test not applicable for this product type |   |
| Vapour pressure                              | : | Test not applicable for this product type |   |
| Vapour density                               | : | Test not applicable for this product type |   |
| Relative density                             | : | > 1 g/cm <sup>3</sup> at 37 °C            |   |
| Solubility(ies)                              | : | completely soluble                        |   |
| Partition coefficient: n-octanol/water       | : | Test not applicable for this product type |   |
| Auto-ignition temperature                    | : | Test not applicable for this product type |   |
| Decomposition temperature                    | : | Test not applicable for this product type |   |
| Viscosity, dynamic                           | : | No data available                         |   |
| Viscosity, kinematic                         | : | No data available                         |   |
| Explosive properties                         | : | Test not applicable for this product type |   |
| Oxidizing properties                         | : | Test not applicable for this product type |   |
| Other information                            | : | None identified                           | : |

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**SECTION 10: STABILITY AND REACTIVITY**

|  |   |   |
|--|---|---|
| <b>10.1 Reactivity</b>                         | : | No dangerous reaction known under conditions of normal use. |
| <b>10.2 Chemical stability</b>                 | : | Stable under recommended storage conditions.                |
| <b>10.3 Possibility of hazardous reactions</b> | : | None known.   |
| <b>10.4 Conditions to avoid</b>                | : | Extremes of temperature and direct sunlight.                |
| <b>10.5 Incompatible materials</b>             | : | None known.   |
| <b>10.6 Hazardous decomposition products</b>   | : | No decomposition if stored and applied as directed.         |

**SAFETY DATA SHEET**

(according to Regulation (EC) No. 2015/830)

**Mr Muscle® Multi-Surface Cleaner (Professional)**

Version 1.0

Revision Date 02.12.2016

Print Date 27.03.2017

Specification Number: 350000025918

SITE FORM Number:  
30000000000000010979.002**SECTION 11: TOXICOLOGICAL INFORMATION****Information on toxicological effects****Acute oral toxicity**

| Name    | Method             | Species | Dose          |
|---------|--------------------|---------|---------------|
| Product | LD50<br>Calculated |         | > 2,000 mg/kg |

**Acute inhalation toxicity**

| Name    | Method                             | Species | Dose     | Exposure time |
|---------|------------------------------------|---------|----------|---------------|
| Product | LC50 (dust and mist)<br>Calculated |         | > 5 mg/l |               |

**Acute dermal toxicity**

| Name    | Method             | Species | Dose          |
|---------|--------------------|---------|---------------|
| Product | LD50<br>Calculated |         | > 2,000 mg/kg |

**Acute oral toxicity**

| Name  | Method | Species | Dose        |
|---|--------|---------|-------------|
| Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides               | LD50   | Rat     | 304.5 mg/kg |
| Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | LD50   | Rat     | 304.5 mg/kg |

**Acute inhalation toxicity**

| Name   | Method        | Species | Dose       | Exposure time |
|--|---------------|---------|------------|---------------|
| Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides    | LC50 (vapour) | Rat     | 0.054 mg/l |               |
| Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl | LC50 (vapour) | Rat     | 0.054 mg/l |               |



**SAFETY DATA SHEET**

(according to Regulation (EC) No. 2015/830)

**Mr Muscle® Multi-Surface Cleaner (Professional)**

Version 1.0

Revision Date 02.12.2016

Print Date 27.03.2017

Specification Number: 350000025918

SITE FORM Number:  
30000000000000010979.002

|               |  |  |  |  |
|---------------|--|--|--|--|
| yl, chlorides |  |  |  |  |
|---------------|--|--|--|--|

**Acute dermal toxicity**

| Name  | Method | Species | Dose      |
|---|--------|---------|-----------|
| Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides               | LD50   | Rat     | 930 mg/kg |
| Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | LD50   | Rat     | 930 mg/kg |

- Skin corrosion/irritation : Based on available data, the classification criteria are not met.
- Serious eye damage/eye irritation : Based on available data, the classification criteria are not met.
- Skin sensitisation : Based on available data, the classification criteria are not met.
- Germ cell mutagenicity : Based on available data, the classification criteria are not met.
- Carcinogenicity : Based on available data, the classification criteria are not met.
- Toxicity for reproduction : Based on available data, the classification criteria are not met.
- STOT - single exposure : Based on available data, the classification criteria are not met.
- STOT - repeated exposure : Based on available data, the classification criteria are not met.
- Aspiration hazard : Based on available data, the classification criteria are not met.

**SECTION 12: ECOLOGICAL INFORMATION****Product** : The product itself has not been tested.**12.1 Toxicity****Toxicity to fish**

| Components          | End point             | Species             | Value     | Exposure time |
|---------------------|-----------------------|---------------------|-----------|---------------|
| Quaternary ammonium | LC50 semi-static test | Lepomis macrochirus | 0.28 mg/l | 96 h          |

**SAFETY DATA SHEET**

(according to Regulation (EC) No. 2015/830)

**Mr Muscle® Multi-Surface Cleaner (Professional)**

Version 1.0

Revision Date 02.12.2016

Print Date 27.03.2017

Specification Number: 350000025918

SITE FORM Number:  
30000000000000010979.002

|   |                       |  |           |      |
|---|-----------------------|--|-----------|------|
| compounds, benzyl-C12-18-alkyldimethyl, chlorides                                   | NOEC                  | (Bluegill sunfish)<br>Pimephales promelas (fathead minnow) | 0.03 mg/l | 34 d |
| Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | LC50 semi-static test | Lepomis macrochirus (Bluegill sunfish)                     | 0.28 mg/l | 96 h |
|   | NOEC                  | Pimephales promelas (fathead minnow)                       | 0.03 mg/l | 34 d |

**Toxicity to aquatic invertebrates**

| Components  | End point | Species                    | Value       | Exposure time |
|---|-----------|----------------------------|-------------|---------------|
| Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides               | EC50      | Daphnia magna (Water flea) | 0.0059 mg/l | 48 h          |
| Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | EC50      | Daphnia magna (Water flea) | 0.0059 mg/l | 48 h          |

**Toxicity to aquatic plants**

| Components  | End point | Species | Value     | Exposure time |
|---|-----------|---------|-----------|---------------|
| Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides               | EC50      |         | 0.03 mg/l |               |
| Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | EC50      |         | 0.03 mg/l |               |

**12.2 Persistence and degradability**

| Component   | Biodegradation | Exposure time | Summary               |
|---|----------------|---------------|-----------------------|
| Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | 60 %           | 13 d          | Readily biodegradable |
| Quaternary ammonium compounds,  | 60 %           | 13 d          | Readily biodegradable |

**SAFETY DATA SHEET**

(according to Regulation (EC) No. 2015/830)

**Mr Muscle® Multi-Surface Cleaner (Professional)**

Version 1.0

Revision Date 02.12.2016

Print Date 27.03.2017

Specification Number: 350000025918

SITE FORM Number:  
30000000000000010979.002

|  |  |  |  |
|--|--|--|--|
| C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides |  |  |  |
|--|--|--|--|

**12.3 Bioaccumulative potential**

| Component   | Bioconcentration factor (BCF) | Partition Coefficient n-Octanol/water (log) |
|---|-------------------------------|---|
| Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides               | 182.8                         | 3.91  |
| Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | 182.8                         | 3.91  |

**12.4 Mobility in soil**

| Component   | End point | Value            |
|---|-----------|------------------|
| Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides               | Koc       | 640389 - 6171657 |
| Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | Koc       | 640389 - 6171657 |

**12.5 Results of PBT and vPvB assessment**

| Component   | Results                              |
|---|--------------------------------------|
| Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides               | Not fulfilling PBT and vPvB criteria |
| Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | Not fulfilling PBT and vPvB criteria |

**12.6 Other adverse effects** : None known.**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**Product : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Disposal should be in accordance with local, state or

**SAFETY DATA SHEET**

(according to Regulation (EC) No. 2015/830)



**Mr Muscle® Multi-Surface Cleaner (Professional)**

Version 1.0  
Revision Date 02.12.2016

Print Date 27.03.2017  
Specification Number: 350000025918  
SITE FORM Number:  
30000000000000010979.002

national legislation.  
Please recycle empty packaging.

Packaging : Do not re-use empty containers.

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**SECTION 14: TRANSPORT INFORMATION**

**Land transport**

Not classified as dangerous in the meaning of transport regulations.

**Sea transport**

Not classified as dangerous in the meaning of transport regulations.

**Air transport**

Not classified as dangerous in the meaning of transport regulations.

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**SECTION 15: REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture** : This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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**SECTION 16: OTHER INFORMATION**

If applicable, revision(s) are noted by the bold bars || in left-hand margin.

**Key abbreviations or acronyms used**

- EC - European Community
- EEC – European Economic Community
- CLP – Classification Labelling & Packaging
- EN – European Standard or European Norm
- PBT – Persistent, Bioaccumulative & Toxic
- vPvB – very persistent, very bioaccumulative
- UN – United Nations

**Evaluation methods**

Unless otherwise stated in section 11, the procedure used to derive the human health classification is the relevant calculation method according to CLP regulation (EC) No 1272/2008 as amended.

Unless otherwise stated in section 12, the procedure used to derive the environmental classification is the summation of the

**SAFETY DATA SHEET**

(according to Regulation (EC) No. 2015/830)



**Mr Muscle® Multi-Surface Cleaner (Professional)**

Version 1.0

Revision Date 02.12.2016

Print Date 27.03.2017

Specification Number: 350000025918

SITE FORM Number:  
30000000000000010979.002

classified components method according to CLP regulation (EC) No 1272/2008 as amended.

**Full text of H-Statements**

|      |   |
|------|---|
| H302 | Harmful if swallowed.                                 |
| H311 | Toxic in contact with skin.                           |
| H314 | Causes severe skin burns and eye damage.              |
| H330 | Fatal if inhaled.                                     |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects.      |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.