

**SAFETY DATA SHEET**

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



**MR MUSCLE® Window & Glass (Professional)**

Version 1.0  
Revision Date 02.12.2016

Print Date 27.03.2017  
Specification Number: 350000024266  
SITE FORM Number:  
30000000000000012648.002

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

- 1.1 Product identifier** : MR MUSCLE® Window & Glass (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)

| Hazard classification | Hazard category | Hazards identification         |
|-----------------------|-----------------|--------------------------------|
| Skin irritation       | Category 2      | Causes skin irritation.        |
| Eye irritation        | Category 2A     | Causes serious eye irritation. |

**2.2 Label elements**

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

**Hazard symbols**



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Warning

**Hazard statements**

(H315) Causes skin irritation.

(H319) Causes serious eye irritation.

**Precautionary statements**

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

(P102) Keep out of reach of children.

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

(P337 + P313) If eye irritation persists: Get medical advice/ attention.

(P264) Wash hands thoroughly after handling.

(P260) Do not breathe spray.

**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% Anionic surfactants, perfume

**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      |
|-------------------|-----------------------|------------------|--|---------------------|
| 2-hexyloxyethanol | 112-25-4<br>203-951-1 | 01-2119486575-24 | Acute toxicity<br>Category 4<br>H302<br>Acute toxicity         | >= 1.00 - <<br>5.00 |

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|                   |                       |                  |   |                     |
|-------------------|-----------------------|------------------|---|---------------------|
|                   |                       |                  | Category 4<br>H312<br>Skin corrosion<br>Category 1B<br>H314<br>Serious eye damage<br>Category 1<br>H318   |                     |
| 2-hexyloxyethanol | 112-25-4<br>203-951-1 | 01-2119486575-24 | Acute toxicity<br>Category 4<br>H302<br>Acute toxicity<br>Category 4<br>H312<br>Skin corrosion<br>Category 1B<br>H314<br>Serious eye damage<br>Category 1<br>H318 | >= 1.00 - <<br>5.00 |

| WEL substance    |                      |                  |   |                     |
|------------------|----------------------|------------------|---|---------------------|
| propane-1,2-diol | 57-55-6<br>200-338-0 | 01-2119456809-23 |   | >= 0.10 - <<br>0.50 |
| acetic acid      | 64-19-7<br>200-580-7 | 01-2119475328-30 | Flammable liquids<br>Category 3<br>H226<br>Skin corrosion | >= 0.10 - <<br>0.50 |

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|  |  |  |   |  |
|--|--|--|---|--|
|  |  |  | Category 1A<br>H314<br>Serious eye damage<br>Category 1<br>H318 |  |
|--|--|--|---|--|

**Additional Information**

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

**SECTION 4: FIRST AID MEASURES**

**4.1 Description of first aid measures**

- Inhalation : No special requirements
- Skin contact : Take off all contaminated clothing immediately.  
Wash off with soap and plenty of water.  
Get medical attention if irritation develops and persists.  
Wash contaminated clothing before re-use.
- Eye contact : Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Rinse with plenty of water.  
Get medical attention if irritation develops and persists.
- Ingestion : If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.  
Rinse mouth with water.

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

- Eyes : Causes serious eye irritation.  
No adverse effects expected when used as directed.
- Skin effect : Causes skin irritation.  
No adverse effects expected when used as directed.

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- Inhalation : No adverse effects expected when used as directed.
- Ingestion : May cause irritation to mouth, throat and stomach.  
May cause abdominal discomfort.  
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** : Flammable liquid. Vapors are heavier than air and may travel to a source of ignition and flash back.  
In case of fire and/or explosion do not breathe fumes.  
For large quantities of flammable liquids, consider containment to prevent the spread of fire.  
Exposure to decomposition products may be a hazard to health.

- 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.  
Remove all sources of ignition.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
- 6.2 Environmental precautions** : Outside of normal use, avoid release to the environment.  
Use appropriate containment to avoid environmental contamination.  
Prevent large amounts of product from entering drains.  
Prevent further leakage or spillage if safe to do so.

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Do not flush into surface water or sanitary sewer system.

**6.3 Methods and materials for containment and cleaning up** : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Clean residue from spill site.  
Use only non-sparking equipment.  
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.

**SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling** : For personal protection see section 8.  
Avoid contact with skin and eyes.  
Smoking, eating and drinking should be prohibited in the application area.  
Wear personal protective equipment.  
Keep away from sources of ignition - No smoking.  
Take measures to prevent the build up of electrostatic charge.

**7.2 Conditions for safe storage, including any incompatibilities** : No smoking.  
Store in cool place.  
Do not freeze.  
Keep out of the reach of children.  
Store away from food, beverages and pet food.  
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)

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****Occupational Exposure Limit Values**

Contains no substances with occupational exposure limit values.

| Components       | CAS-No. | mg/m3          | ppm     | Form of exposure                 | List       |
|------------------|---------|----------------|---------|----------------------------------|------------|
| propane-1,2-diol | 57-55-6 | 1,422<br>mg/m3 | 450 ppm | total particulate<br>and vapour  | UK_WELSTEL |
|                  |         | 30 mg/m3       |         | particulate                      | UK_WELSTEL |
|                  |         | 474<br>mg/m3   | 150 ppm | total particulates<br>and vapour | UK_WELTWS  |

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**MR MUSCLE® Window & Glass (Professional)**

Version 1.0

Revision Date 02.12.2016

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|             |         |                      |        |             |            |
|-------------|---------|----------------------|--------|-------------|------------|
|             |         | 10 mg/m <sup>3</sup> |        | particulate | UK_WELTWAS |
| acetic acid | 64-19-7 | 25 mg/m <sup>3</sup> | 10 ppm |             | EUOEL_TWAS |

Refer to current EN or National standard as appropriate.

**8.2 Exposure controls**

- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
- 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 : Safety glasses
- Skin and body protection : Wash contaminated clothing before re-use.  
Wear suitable protective clothing.
- Other information : When using do not eat, drink or smoke.  
Wash hands before breaks and at the end of workday.
- Environmental Exposure Controls : Refer to section 6.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

- Appearance : liquid
- Colour : green
- Odour : Herbal
- Odour Threshold : Test not applicable for this product type
- pH : acidic
- Melting point/freezing point : Test not applicable for this product type
- Initial boiling point and boiling range : Test not applicable for this product type

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|  |   |   |   |
|--|---|---|---|
| Flash point                                  | : | 56 °C                                     |   |
| Evaporation rate                             | : | Test not applicable for this product type |   |
| Flammability (solid, gas)                    | : | Does not sustain combustion.              |   |
| 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                             | : | Test not applicable for this product type |   |
| 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                           | : | Test not applicable for this product type |   |
| Viscosity, kinematic                         | : | Test not applicable for this product type |   |
| Explosive properties                         | : | Test not applicable for this product type |   |
| Oxidizing properties                         | : | Test not applicable for this product type |   |
| Other information                            | : | None identified                           | : |

**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.   |



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Version 1.0

Revision Date 02.12.2016

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Specification Number: 350000024266

SITE FORM Number:

30000000000000012648.002

**10.4 Conditions to avoid** : Heat, flames and sparks.  
Extremes of temperature and direct sunlight.

**10.5 Incompatible materials** : None known.

**10.6 Hazardous decomposition products** : No decomposition if stored and applied as directed.

**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>estimated |         | > 2,000 mg/kg |

**Acute oral toxicity**

| Name              | Method | Species | Dose      |
|-------------------|--------|---------|-----------|
| 2-hexyloxyethanol | LD50   | Rat     | 738 mg/kg |

**Acute inhalation toxicity**

| Name              | Method                    | Species | Dose         | Exposure time |
|-------------------|---------------------------|---------|--------------|---------------|
| 2-hexyloxyethanol | LC50 (vapour)<br>Measured | Rat     | > 0.787 mg/l | 6 h           |

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Version 1.0

Revision Date 02.12.2016

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Specification Number: 350000024266

SITE FORM Number:  
30000000000000012648.002**Acute dermal toxicity**

| Name              | Method | Species | Dose         |
|-------------------|--------|---------|--------------|
| 2-hexyloxyethanol | LD50   | Rabbit  | 757.35 mg/kg |

- Skin corrosion/irritation : Causes skin irritation.
- Serious eye damage/eye irritation : Causes serious eye irritation.
- 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 |
|-------------------|------------------|--------------------------------------|----------|---------------|
| 2-hexyloxyethanol | LC50 static test | Pimephales promelas (fathead minnow) | 140 mg/l | 96 h          |
| 2-hexyloxyethanol | LC50 static test | Pimephales promelas (fathead minnow) | 140 mg/l | 96 h          |

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|                  |                                |  |             |      |
|------------------|--------------------------------|--|-------------|------|
| propane-1,2-diol | LC50 static test<br>Measured   | Oncorhynchus mykiss<br>(rainbow trout) | 40,613 mg/l | 96 h |
|                  | Chronic Toxicity Value<br>QSAR | Fish                                   | 2,500 mg/l  | 30 d |
| acetic acid      | LC50 static test               | Lepomis macrochirus                    | 75 mg/l     | 96 h |

**Toxicity to aquatic invertebrates**

| Components        | End point   | Species                    | Value       | Exposure time |
|-------------------|---|----------------------------|-------------|---------------|
| 2-hexyloxyethanol | EC50 static test  | Daphnia magna (Water flea) | 145 mg/l    | 48 h          |
| 2-hexyloxyethanol | EC50 static test  | Daphnia magna (Water flea) | 145 mg/l    | 48 h          |
| propane-1,2-diol  | EC50 static test<br>Measured<br>NOEC semi-static<br>test Measured | Ceriodaphnia dubia         | 18,340 mg/l | 48 h          |
|                   |   | Ceriodaphnia sp.           | 13,020 mg/l | 7 d           |
| acetic acid       | EC50 static test  | Daphnia magna (Water flea) | 65 mg/l     | 48 h          |

**Toxicity to aquatic plants**

| Components        | End point                    | Species                                       | Value         | Exposure time |
|-------------------|------------------------------|---|---------------|---------------|
| 2-hexyloxyethanol | EC50 static test             | Desmodesmus subspicatus (green algae)         | 147.128 mg/l  | 96 h          |
| 2-hexyloxyethanol | EC50 static test             | Desmodesmus subspicatus (green algae)         | 147.128 mg/l  | 96 h          |
| propane-1,2-diol  | EC50 static test<br>Measured | Scenedesmus capricornutum (fresh water algae) | 19,000 mg/l   | 96 h          |
| acetic acid       | EC50 Static                  | Skeletonema                                   | > 300.82 mg/l | 72 h          |

**SAFETY DATA SHEET**

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

**MR MUSCLE® Window & Glass (Professional)**

Version 1.0

Revision Date 02.12.2016

Print Date 27.03.2017

Specification Number: 350000024266

SITE FORM Number:  
30000000000000012648.002

|  |  |          |  |  |
|--|--|----------|--|--|
|  |  | costatum |  |  |
|--|--|----------|--|--|

**12.2 Persistence and degradability**

| Component         | Biodegradation  | Exposure time | Summary               |
|-------------------|-----------------|---------------|-----------------------|
| 2-hexyloxyethanol | 96.8 %          | 20 d          | Readily biodegradable |
| 2-hexyloxyethanol | 96.8 %          | 20 d          | Readily biodegradable |
| propane-1,2-diol  | 81.7 % Measured | 28 d          | Readily biodegradable |
| acetic acid       | 96 %            | 20 d          | Readily biodegradable |

**12.3 Bioaccumulative potential**

| Component         | Bioconcentration factor (BCF) | Partition Coefficient n-Octanol/water (log) |
|-------------------|-------------------------------|---|
| 2-hexyloxyethanol | 5.8 estimated                 | 1.97  |
| 2-hexyloxyethanol | 5.8 estimated                 | 1.97  |
| propane-1,2-diol  | 0.09                          | -1.07                                       |
| acetic acid       | 3.16                          | -0.17                                       |

**12.4 Mobility in soil**

| Component         | End point | Value        |
|-------------------|-----------|--------------|
| 2-hexyloxyethanol | Koc       | 10 estimated |
| 2-hexyloxyethanol | Koc       | 10 estimated |
| propane-1,2-diol  | Koc       | 2.9 Measured |
| acetic acid       | Koc       | 1.15         |

**12.5 Results of PBT and vPvB assessment**

| Component         | Results                              |
|-------------------|--------------------------------------|
| 2-hexyloxyethanol | Not fulfilling PBT and vPvB criteria |

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**MR MUSCLE® Window & Glass (Professional)**

Version 1.0

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SITE FORM Number:  
30000000000000012648.002

|                   |                                      |
|-------------------|--------------------------------------|
| 2-hexyloxyethanol | Not fulfilling PBT and vPvB criteria |
| propane-1,2-diol  | Not fulfilling PBT and vPvB criteria |
| acetic acid       | 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.<br>Do not contaminate ponds, waterways or ditches with chemical or used container.<br>Disposal should be in accordance with local, state or national legislation.<br>Please recycle empty packaging. |
| Packaging | : | Do not re-use empty containers.  |

**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.

**SECTION 15: REGULATORY INFORMATION**

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

**SECTION 16: OTHER INFORMATION**

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

**SAFETY DATA SHEET**

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



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

**Full text of H-Statements**

|      |  |
|------|--|
| H226 | Flammable liquid and vapour.             |
| H302 | Harmful if swallowed.                    |
| H312 | Harmful in contact with skin.            |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage.               |

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.