

SAFETY DATA SHEET

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



SC Johnson Professional Mr Muscle® Washroom Disinfectant

Version 2.0
Revision Date 23.07.2018

Print Date 02.12.2019
Specification Number: 350000032936
SITE FORM Number:
30000000000000021752.005

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

- 1.1 Product identifier** : SC Johnson Professional Mr Muscle® Washroom Disinfectant

- 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 known.

- 1.3 Details of the supplier of the safety data sheet** : SC Johnson Professional Ltd.
Denby
DE5 8JZ
UK

SC Johnson Professional GmbH
Girmesgath
47803 Krefeld
EU

- Telephone** : +44 (0) 1773 855 100

- E-mail address** : talktous@scj.com

- 1.4 Emergency telephone number** : Care Center:
UK - 0800 353 353
Ireland – 1800 409 176

Irish Poison Center:
Ireland - (01)809 2166

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

| Hazard classification | Hazard category | Hazards identification |
|--------------------------|-----------------|--|
| Chronic aquatic toxicity | Category 3 | Harmful to aquatic life with long lasting effects. |

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2.2 Label elements

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

Active Ingredients (BPR)

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides 0.264% (0.264g/100g)

Hazard statements

(H412) Harmful to aquatic life with long lasting effects.

Precautionary statements

(P102) Keep out of reach of children.

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

(P264) Wash hands thoroughly after handling.

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

(P501) Dispose of contents /container in accordance with local regulations.

(P260) Do not breathe spray.

EUH Statements

(EUH 210) Safety data sheet available on request

Additional Labelling

Use only in well-ventilated areas.

For professional users only

Detergents regulations

: **Contains**
< 5% amphoteric surfactants, non-ionic surfactants, Disinfectants, perfume
, Limonene

2.3 Other hazards

: None identified

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

SAFETY DATA SHEET

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

**SC Johnson Professional Mr Muscle® Washroom Disinfectant**

Version 2.0

Revision Date 23.07.2018

Print Date 02.12.2019

Specification Number: 350000032936

SITE FORM Number:

30000000000000021752.005

Hazardous components

| Chemical name | CAS-No./EC No | Reg. No | Classification according to Regulation (EC) No 1272/2008 (CLP) | Weight percent |
|---|--------------------------|-------------------|--|---------------------|
| 1,1'-iminodipropan-2-ol | 110-97-4 203-820-9 | 01-2119475444-34 | Eye irritation Category 2 H319 | >= 1.00 - < 5.00 |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | 308062-28-4 931-292-6 | 01-21119490061-47 | Acute aquatic toxicity Category 1 H400 Chronic aquatic toxicity Category 2 H411 Serious eye damage/eye irritation Category 1 H318 Skin corrosion/irritation Category 2 H315 Acute toxicity Category 4 H302 M-Factor Acute - 1 | >= 0.10 - < 0.50 |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | 68424-85-1 270-325-2 | 01-2119983287-23 | Skin corrosion Category 1 H314 Serious eye damage | >= 0.10 - < 0.50 |

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 SITE FORM Number:
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| | | | | |
|--|--|--|---|--|
| | | | Category 1 H318 Chronic aquatic toxicity Category 1 H410 Acute aquatic toxicity Category 1 H400 Acute toxicity Category 4 H302 Acute toxicity Category 3 H311 Acute toxicity Category 2 H330 M-Factor Acute - 10 M-Factor Chronic - 1 | |
|--|--|--|---|--|

| WEL substance | | | | |
|---------------|----------------------|------------------|---|---------------------|
| ethyl alcohol | 64-17-5 200-578-6 | 01-2119457610-43 | Flammable liquids Category 2 H225 | >= 0.00 - < 0.10 |

Additional Information

SAFETY DATA SHEET

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



SC Johnson Professional Mr Muscle® Washroom Disinfectant

Version 2.0
Revision Date 23.07.2018

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SITE FORM Number:
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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 : 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.

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

SAFETY DATA SHEET

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



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SITE FORM Number:
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- 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.
- 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.

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.
Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
Use appropriate containment to avoid environmental contamination.
- 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.

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.

SAFETY DATA SHEET

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Version 2.0

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SITE FORM Number:
30000000000000021752.005

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**

| Components | CAS-No. | mg/m ³ | ppm | Form of exposure | List |
|---------------|---------|----------------------------|--------------|------------------|------------|
| ethyl alcohol | 64-17-5 | 1,920 mg/m ³ | 1,000 ppm | | UK_WELTWAS |
| | | 5,760 mg/m ³ | 3,000 ppm | | UK_WELSTEL |

Refer to current EN or National standard as appropriate.

8.2 Exposure controls

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection : For prolonged or repeated contact use protective gloves.
Nitrile gloves – Thickness 0.12mm; Breakthrough time >2 hours.

Eye/face protection : No special requirements.

Skin and body protection : No special requirements.

Other information : 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 : colourless

Odour : Citrus

SAFETY DATA SHEET

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

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Version 2.0

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SITE FORM Number:
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|--|---|
| Odour Threshold | : Test not applicable for this product type |
| pH | : 10.8 |
| Melting point/freezing point | : Test not applicable for this product type |
| Initial boiling point and boiling range | : Test not applicable for this product type |
| Flash point | : does not flash |
| Evaporation rate | : Test not applicable for this product type |
| Flammability (solid, gas) | : The product is not flammable. |
| 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 | : 0.998 g/cm ³ |
| 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 | : similar to water |
| Viscosity, kinematic | : similar to water |
| Explosive properties | : Test not applicable for this product type |
| Oxidizing properties | : Test not applicable for this product type |

9.2 Other information

SC Johnson Professional Mr Muscle® Washroom Disinfectant

Version 2.0
Revision Date 23.07.2018

Print Date 02.12.2019
Specification Number: 350000032936
SITE FORM Number:
30000000000000021752.005

Other information : None identified :

SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity** : No dangerous reaction known under conditions of normal use.
- 10.2 Chemical stability** : Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions** : None known.
- 10.4 Conditions to avoid** : 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 Measured OECD Test Guideline 425 | | > 5,000 mg/kg |

Acute inhalation toxicity

| Name | Method | Species | Dose | Exposure time |
|---------|---|---------|----------|---------------|
| Product | LC50 (dust and mist) Measured OECD Test Guideline 403 | Rat | > 5 mg/l | |

SAFETY DATA SHEET

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

**SC Johnson Professional Mr Muscle® Washroom Disinfectant**

Version 2.0

Revision Date 23.07.2018

Print Date 02.12.2019

Specification Number: 350000032936

SITE FORM Number:
30000000000000021752.005

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Acute dermal toxicity

| Name | Method | Species | Dose |
|---------|--|---------|---------------|
| Product | LD50 Measured OECD Test Guideline 402 | Rat | > 5,000 mg/kg |

Acute oral toxicity

| Name | Method | Species | Dose |
|---|--------|---------|-------------|
| 1,1'-iminodipropan-2-ol | LD50 | Rat | 4,765 mg/kg |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | LD50 | Rat | 1,064 mg/kg |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | LD50 | Rat | 426 mg/kg |

Acute inhalation toxicity

| Name | Method | Species | Dose | Exposure time |
|---|-------------------|---------|------|---------------|
| 1,1'-iminodipropan-2-ol | No data available | | | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No data available | | | |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | No data available | | | |

Acute dermal toxicity

| Name | Method | Species | Dose |
|-------------------------|--------|---------|-------------|
| 1,1'-iminodipropan-2-ol | LD50 | Rabbit | 8,000 mg/kg |

SAFETY DATA SHEET

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

**SC Johnson Professional Mr Muscle® Washroom Disinfectant**

Version 2.0

Revision Date 23.07.2018

Print Date 02.12.2019

Specification Number: 350000032936

SITE FORM Number:
30000000000000021752.005

| | | | |
|---|------|-----|---------------|
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | LD50 | Rat | > 2,000 mg/kg |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, 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 |
|-------------------------|-----------|--------------------------|------------|---------------|
| 1,1'-iminodipropan-2-ol | LC50 | Danio rerio (zebra fish) | 1,466 mg/l | 96 h |

SAFETY DATA SHEET

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

**SC Johnson Professional Mr Muscle® Washroom Disinfectant**

Version 2.0

Revision Date 23.07.2018

Print Date 02.12.2019

Specification Number: 350000032936

SITE FORM Number:
30000000000000021752.005

| | | | | |
|---|--|--------------------------------------|-------------|-------|
| | | | | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | LC50 semi-static test | Danio rerio (zebra fish) | 31.8 mg/l | 96 h |
| | NOEC flow-through test Read-across (Analogy) | Pimephales promelas (fathead minnow) | 0.42 mg/l | 302 d |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | LC50 Measured | Pimephales promelas (fathead minnow) | 0.28 mg/l | 96 h |
| | NOEC | Pimephales promelas (fathead minnow) | 0.03 mg/l | 34 d |
| ethyl alcohol | LC50 | Fish | 11,200 mg/l | 96 h |

Toxicity to aquatic invertebrates

| Components | End point | Species | Value | Exposure time |
|---|--|----------------------------|-------------|---------------|
| 1,1'-iminodipropan-2-ol | EC50 | Daphnia magna Straus | 277.7 mg/l | 48 h |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | EC50 static test | Daphnia magna (Water flea) | 3.9 mg/l | 48 h |
| | NOEC flow-through test Read-across (Analogy) | Daphnia magna (Water flea) | 0.7 mg/l | 21 d |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | EC50 | Daphnia magna (Water flea) | 0.016 mg/l | 48 h |
| | NOEC | Daphnia magna | 0.0042 mg/l | 21 d |
| ethyl alcohol | LC50 static test | Ceriodaphnia dubia | 5,012 mg/l | 48 h |
| | NOEC | Daphnia magna | 9.6 mg/l | 9 d |

Toxicity to aquatic plants

SAFETY DATA SHEET

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

**SC Johnson Professional Mr Muscle® Washroom Disinfectant**

Version 2.0

Revision Date 23.07.2018

Print Date 02.12.2019

Specification Number: 350000032936

SITE FORM Number:
30000000000000021752.005

| Components | End point | Species | Value | Exposure time |
|---|------------------|---|------------|---------------|
| 1,1'-iminodipropan-2-ol | EC50 | Desmodesmus subspicatus (green algae) | 339 mg/l | 72 h |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | EC50 static test | Pseudokirchneriella subcapitata (green algae) | 0.2 mg/l | 72 h |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | EC50 | Selenastrum capricornutum, Skeletonema costatum | 0.026 mg/l | 72 h |
| ethyl alcohol | EC50 Static | Chlorella vulgaris (Fresh water algae) | 275 mg/l | 72 h |

12.2 Persistence and degradability

| Component | Biodegradation | Exposure time | Summary |
|---|----------------|---------------|------------------------|
| 1,1'-iminodipropan-2-ol | 94 % | 28 d | Readily biodegradable. |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | 95.27 % | 28 d | Readily biodegradable. |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | 95.5 % | 28 d | Readily biodegradable. |
| ethyl alcohol | 97 % | 28 d | Readily biodegradable. |

12.3 Bioaccumulative potential

| Component | Bioconcentration factor (BCF) | Partition Coefficient n-Octanol/water (log) |
|-------------------------|-------------------------------|---|
| 1,1'-iminodipropan-2-ol | 3.16 estimated | -0.79 |

SAFETY DATA SHEET

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

**SC Johnson Professional Mr Muscle® Washroom Disinfectant**

Version 2.0

Revision Date 23.07.2018

Print Date 02.12.2019

Specification Number: 350000032936

SITE FORM Number:
30000000000000021752.005

| | | |
|---|---------------|----------------|
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | > 87 | < 2.7 |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | 79 Measured | 3.91 |
| ethyl alcohol | 3.2 estimated | -0.35 Measured |

12.4 Mobility in soil

| Component | End point | Value |
|---|-------------------|-------------------|
| 1,1'-iminodipropan-2-ol | Koc | 43 estimated |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | Koc | > 2113 Calculated |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | No data available | |
| ethyl alcohol | No data available | |

12.5 Results of PBT and vPvB assessment

| Component | Results |
|---|--------------------------------------|
| 1,1'-iminodipropan-2-ol | Not fulfilling PBT and vPvB criteria |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | Not fulfilling PBT and vPvB criteria |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | Not fulfilling PBT and vPvB criteria |
| ethyl alcohol | 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.

SAFETY DATA SHEET

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



SC Johnson Professional Mr Muscle® Washroom Disinfectant

Version 2.0

Revision Date 23.07.2018

Print Date 02.12.2019

Specification Number: 350000032936

SITE FORM Number:
30000000000000021752.005

Do not contaminate ponds, waterways or ditches with chemical or used container.
Disposal should be in accordance with local, state or national legislation.
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

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.

15.2 Chemical safety assessment : Ongoing.

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

SAFETY DATA SHEET

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



SC Johnson Professional Mr Muscle® Washroom Disinfectant

Version 2.0
Revision Date 23.07.2018

Print Date 02.12.2019
Specification Number: 350000032936
SITE FORM Number:
30000000000000021752.005

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

| | |
|------|---|
| H225 | Highly flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| 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

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Version 2.0

Revision Date 23.07.2018

Print Date 02.12.2019

Specification Number: 350000032936

SITE FORM Number:
30000000000000021752.005

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