

SAFETY DATA SHEET

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

SC Johnson Professional Mr Muscle® Multi-Surface 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® Multi-Surface 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 :

Telephone :

E-mail address :

1.4 Emergency telephone number :

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

Hazardous components

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

Additional Information

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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

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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.

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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

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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/cm3
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

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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	

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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

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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

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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

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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

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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.

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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 :

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

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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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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.