SAFETY DATA SHEET
(according to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758)

SC Johnson Professional Mr Muscle® Multi-Surface Disinfectant

Version *1*.0
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Specification Number:
350000032936

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

1.1 Product identifier : SC Johnson Professional Mr Muscle® Multi-Surface Disinfectant

UFI : 9Q6X-P2NE-A00W-FS1S

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

Use of the Substance/Mixture : Biocidal product (disinfectant)

Uses advised against : None known.

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

Telephone : +44(0)1773 855100

E-mail address : talktous@scj.com

1.4 Emergency telephone number : National Poisons Information Service (UK) 0344 8920111 (Health Professionals only)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

Hazard classification	Hazard category	Hazards identification
Long-term (chronic) aquatic hazard	Category 3	Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

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.

Additional Labelling
Use only in well-ventilated areas.

Detergents regulations : **Contains**
< 5% non-ionic surfactants, amphoteric surfactants, Cationic 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 as amended by GB-CLP Regulation.	Weight percent
1,1'-iminodipropan-2-ol	110-97-4 203-820-9	-	Eye irritation Category 2 H319	>= 1.00 - < 5.00
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	308062-28-4 931-292-6	-	Acute toxicity Category 4 H302 Skin irritation Category 2 H315	>= 0.10 - < 0.50

			Serious eye damage Category 1 H318 Short-term (acute) aquatic hazard Category 1 H400 Long-term (chronic) aquatic hazard Category 2 H411 M-Factor Acute - 1	
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1 270-325-2	-	Acute toxicity Category 4 H302 Skin corrosion Category 1B H314 Serious eye damage Category 1 H318 Specific target organ toxicity - single exposure Category 3 H335 Short-term (acute) aquatic hazard Category 1 H400 Long-term (chronic) aquatic hazard Category 1 H410	>= 0.10 - < 0.50

			M-Factor Acute - 10 M-Factor Chronic - 1	

WEL substance				
ethanol	64-17-5 200-578-6	-	Eye irritation Category 2 H319 Flammable liquids Category 2 H225	>= 0.00 - < 0.10

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 : 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
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.

7.3 Specific end use(s) : Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Biocidal product (disinfectant)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limit Values

Components	CAS-No.	mg/m3	ppm	Form of exposure	List
ethanol	64-17-5	1,920 mg/m3	1,000 ppm		UK_WELTWAS
		5,760 mg/m3	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

Physical State	:	liquid
Colour	:	colourless
Odour	:	Citrus
Odour Threshold	:	Test not applicable for this product type
pH	:	10.8 at (20 °C) (undiluted)
Melting point/freezing point	:	-20℃ - 0℃
Initial boiling point and boiling range	:	> 100℃
Flash point	:	does not flash
Evaporation rate	:	Test not applicable for this product type
Flammability (solid, gas)	:	The product is not flammable.
Lower flammability or explosive limits	:	Not measured as flashpoint >100 °C
Upper flammability or explosive limits	:	Not measured as flashpoint >100 °C
Vapour pressure	:	Not measured as flashpoint >100 °C
Vapour density	:	Not measured as flashpoint >100 °C
Relative density	:	0.998 g/cm3
Solubility(ies)	:	completely soluble

Partition coefficient: n-octanol/water	:	Not required as the product is a mixture.
Auto-ignition temperature	:	Not measured as flashpoint >100 °C
Decomposition temperature	:	Not measured as mixture is not self-reactive
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

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

11.1 Information on toxicological effects

Acute oral toxicity

Name	Method	Species	Dose
Product	LD50		> 5,000 mg/kg

	Measured OECD Test Guideline 425		

Acute inhalation toxicity

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

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 Measured	Rat	> 2,000 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 Measured	Rat	344 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 Measured	Rabbit	8,000 mg/kg
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	LD50 Read-across (Analogy)	Rabbit	> 2,000 mg/kg
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	LD50	Rabbit	2,848 mg/kg

Skin corrosion/irritation : Based on available data, the classification criteria are not met.OECD Test Guideline 404

Serious eye damage/eye irritation : Based on available data, the classification criteria are not met. OECD Test Guideline 405

Skin sensitisation : Based on available data, the classification criteria are not met.OECD Test Guideline 406

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
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	LC50 NOEC flow-through test Read-across (Analogy)	Fish Pimephales promelas (fathead minnow)	0.6 - 32 mg/l 0.42 mg/l	96 h 302 d
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	LC50 Measured NOEC	Lepomis macrochirus (Bluegill sunfish) Pimephales promelas (fathead minnow)	0.515 mg/l 0.032 mg/l	96 h 34 d
ethanol	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	Daphnia (water flea)	0.5 - 10.8 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 Measured	Daphnia magna (Water flea)	0.016 mg/l	48 h
	NOEC	Daphnia magna	0.0042 mg/l	21 d
ethanol	LC50 static test	Ceriodaphnia dubia	5,012 mg/l	48 h
	NOEC	Daphnia magna	9.6 mg/l	9 d

Toxicity to aquatic plants

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	NOEC	Algae	0.075 mg/l	72 h
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	EC50	Pseudokirchneriella subcapitata (green algae)	0.049 mg/l	72 h
ethanol	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	90 %	28 d	Readily biodegradable.
Quaternary ammonium compounds, benzyl-C12-16-	95.5 %	28 d	Readily biodegradable.

alkyldimethyl, chlorides			
ethanol	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
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	> 87	< 2.7
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	79 Measured	0.004
ethanol	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	1525 Measured
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	Koc	282624
ethanol	Koc	1

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,	Not fulfilling PBT and vPvB criteria

benzyl-C12-16-alkyldimethyl, chlorides	
ethanol	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 national legislation.
Please recycle empty packaging.

Packaging : Do not re-use empty containers.

SECTION 14: TRANSPORT INFORMATION

	Land transport	Sea transport	Air transport
14.1 UN number or identification number	Not classified as dangerous in the meaning of transport regulations.		
14.2 UN proper shipping name	Not classified as dangerous in the meaning of transport regulations.		
14.3 Transport hazard class(es)	Not classified as dangerous in the meaning of transport regulations.		
14.4 Packing group	Not classified as dangerous in the meaning of transport regulations.		
14.5 Environmental hazards	Not classified as dangerous in the meaning of transport regulations.		
14.6 Special precautions for user	Not classified as dangerous in the meaning of transport regulations.		
14.7 Maritime transport in bulk according to IMO instruments	Product not transported as bulk.		

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and : This safety datasheet complies with the requirements of:

environmental regulations/legislation specific for the substance or mixture	REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758 (as amended). Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK S.I. 2019/720, and UK S.I. 2020/1567 (as amended). The Biocidal Products Regulations 2001, UK S.I. 2001/880 (applicable to biocidal products) (as amended). The Aerosol Dispensers Regulations 2009 (applicable to Aerosol products) (as amended). The Detergents (Amendment) (EU Exit) Regulations 2020, UK S.I. 2020/1617 (Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (applicable to detergent products) (as amended). The Regulation (EC) No 1223/2009 on Cosmetic Products as amended by the Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019 (hereafter 'the Regulation') (applicable to cosmetics) The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 696) (as amended) European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) Regulation 2019/1021, as amended by The Persistent Organic Pollutants (Amendment) (EU Exit) Regulations 2020

15.2 Chemical safety assessment	:	Not required for consumer products.

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 by GB-CLP Regulation

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 by GB-CLP Regulation

Full text of H-Statements

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

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.

Training advice

Provide appointed staff with adequate training on how to handle chemical products.

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.