MR MUSCLE® Window & Glass (Professional)

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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



Signal word
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
< 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	112-25-4 203-951-1	01-2119486575-24	Acute toxicity Category 4 H302 Acute toxicity	>= 1.00 - < 5.00

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

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

			Category 1A H314 Serious eye damage Category 1 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.

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.

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.

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.

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 mg/m3	450 ppm	total particulate and vapour	UK_WELSTEL
		30 mg/m3		particulate	UK_WELSTEL
		474 mg/m3	150 ppm	total particulates and vapour	UK_WELTWAS

		10 mg/m3		particulate	UK_WELTWAS
acetic acid	64-19-7	25 mg/m3	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

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

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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 : 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 Calculated		> 2,000 mg/kg

Acute inhalation toxicity

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

Acute dermal toxicity

Name	Method	Species	Dose
Product	LD50 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) Measured	Rat	> 0.787 mg/l	6 h

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

propane-1,2-diol	LC50 static test Measured Chronic Toxicity Value QSAR	Oncorhynchus mykiss (rainbow trout) Fish	40,613 mg/l 2,500 mg/l	96 h 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 Measured NOEC semi-static test Measured	Ceriodaphnia dubia Ceriodaphnia sp.	18,340 mg/l 13,020 mg/l	48 h 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 Measured	Scenedesmus capricornutum (fresh water algae)	19,000 mg/l	96 h
acetic acid	EC50 Static	Skeletonema	> 300.82 mg/l	72 h

		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

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.
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.

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 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.