

SAFETY DATA SHEET

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



MR MUSCLE® Drain Cleaner (Professional)

Version 2.0
Revision Date 02.12.2016

Print Date 18.04.2017
Specification Number: 350000025014
SITE FORM Number:
30000000000000006629.001

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

- 1.1 Product identifier** : MR MUSCLE® Drain Cleaner (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
Corrosive to metals	Category 1	May be corrosive to metals.
Skin corrosion	Category 1	Causes severe skin burns and eye damage.
Acute aquatic toxicity	Category 1	Very toxic to aquatic life.
Chronic aquatic toxicity	Category 2	Toxic to aquatic life with long lasting effects.

2.2 Label elements

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

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Signal word

Danger

Contains

sodium hypochlorite, solution Cl active
sodium hydroxide
Amines, C12-18-alkyldimethyl, N-oxides

Hazard statements

(H290) May be corrosive to metals.
(H314) Causes severe skin burns and eye damage.
(H410) Very toxic to aquatic life with long lasting effects.

Precautionary statements

(P101) If medical advice is needed, have product container or label at hand.
(P102) Keep out of reach of children.
(P260) Do not breathe fume.
(P310) Immediately call a POISON CENTER or doctor/ physician.
(P303 + P361 + P353) IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
(P305 + P351 + P338) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
(P301 + P330 + P331) IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
(P304 + P340) IF INHALED: Remove person to fresh air and keep comfortable for breathing.
(P405) Store locked up.
(P501) Dispose of contents /container in accordance with local regulations.
(P234) Keep only in original container.
(P280) Wear protective gloves / eye protection.
(P264) Wash hands thoroughly after handling.

EUH Statements

(EUH206) Warning! Do not use together with other products. May release dangerous gases (chlorine).

Additional Labelling

Keep container tightly closed in a cool place and store bottle upright.
Do not mix with other products.
For professional users only.
Safety data sheet available for professional user on request.

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< 5% amphoteric surfactants, < 5% chlorine-based bleaching agents, soap, amphoteric surfactants,

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
sodium hypochlorite, solution Cl active	7681-52-9 231-668-3	01-2119488154-34	Skin corrosion Category 1B H314 Acute aquatic toxicity Category 1 H400 Chronic aquatic toxicity Category 1 H410 M-Factor Acute - 10 M-Factor Chronic - 1	>= 1.00 - < 5.00
sodium hydroxide	1310-73-2 215-185-5	01-2119982981-22	Skin corrosion Category 1A H314 Serious eye damage Category 1 H318	>= 1.00 - < 5.00
Amines, C12-18-alkyldimethyl, N-oxides	68955-55-5 273-281-2	01-2119489396-21	Skin irritation Category 2	>= 1.00 - < 5.00

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			H315 Serious eye damage Category 1 H318 Chronic aquatic toxicity Category 2 H411 Acute aquatic toxicity Category 1 H400 Acute toxicity Category 4 H302 M-Factor Acute - 1	
Silicic acid, sodium salt	1344-09-8 215-687-4	01-2119448725-31	Corrosive to metals Category 1 H290 Skin corrosion/irritation Category 1B H314 Serious eye damage/eye irritation Category 1 H318 Specific target organ toxicity - single exposure Category 3	>= 0.10 - < 0.50

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			H335	
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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 : In case of accidental exposure to chlorine gas:
 Move to fresh air.
 If breathing is difficult, give oxygen.
 Get medical attention immediately.
- Skin contact : Take off all contaminated clothing immediately.
 Immediately flush skin with large amounts 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.
 Flush immediately with plenty of water for at least 15 to 20 minutes.
 In case of accidental exposure to chlorine gas:
 Get medical attention immediately.
- Ingestion : Do NOT induce vomiting.
 Rinse mouth with water.
 Get medical attention immediately.
 Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

- Eyes : Causes serious eye damage.
 No adverse effects expected when used as directed.
- Skin effect : Causes severe skin burns.
 No adverse effects expected when used as directed.
- Inhalation : Warning! Do not use together with other products. May release dangerous gases (chlorine).
 May cause respiratory tract irritation.
 No adverse effects expected when used as directed.

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Ingestion : Causes digestive tract burns.
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.

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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.
Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities : Store in original container.
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

Components	CAS-No.	mg/m3	ppm	Form of exposure	List
sodium hydroxide	1310-73-2	2 mg/m3			UK_WELSTEL

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

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- Skin and body protection : Wash contaminated clothing before re-use.
- 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 : natural colour
- Odour : Functional
- Odour Threshold : Test not applicable for this product type
- pH : 13.4
(undiluted)
- 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 : > 100 °C
- Evaporation rate : Test not applicable for this product type
- Flammability (solid, gas) : Test not applicable for this product type
- 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 : 1.1 g/cm3 at 25 °C
- Solubility(ies) : completely soluble
- Partition coefficient: n-octanol/water : Test not applicable for this product type

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- Auto-ignition temperature : Test not applicable for this product type
- Decomposition temperature : Test not applicable for this product type
- Viscosity, dynamic : 1,500 mPa.s
- 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

- 10.1 Reactivity** : Warning! Do not use together with other products. May release dangerous gases (chlorine).
- 10.2 Chemical stability** : Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions** : Warning! Do not use together with other products. May release dangerous gases (chlorine).
- 10.4 Conditions to avoid** : Extremes of temperature and direct sunlight.
- 10.5 Incompatible materials** : Do not mix with acids or any other household products. May release dangerous gases (chlorine).
- 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 g/kg

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Name	Method	Species	Dose	Exposure time
Product	LC50 (vapour) Calculated		> 20 mg/l	

Acute dermal toxicity

Name	Method	Species	Dose
Product	LD50 estimated	Rat	> 2,000 mg/kg

Acute oral toxicity

Name	Method	Species	Dose
sodium hypochlorite, solution Cl active	LD50	Rat	1,100 mg/kg
sodium hydroxide			
Amines, C12-18-alkyldimethyl, N-oxides	LD50	Rat	846 mg/kg
Silicic acid, sodium salt	LD50	Rat	3,400 mg/kg

Acute inhalation toxicity

Name	Method	Species	Dose	Exposure time
sodium hypochlorite, solution Cl active	No data available			
sodium hydroxide	No data available			
Amines, C12-18-alkyldimethyl, N-oxides	No data available			
Silicic acid, sodium salt	LC50 (vapour)	Rat	> 2.06 mg/l	4 h

Acute dermal toxicity

Name	Method	Species	Dose
sodium hypochlorite, solution Cl	LD50	Rabbit	> 20,000 mg/kg

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active			
sodium hydroxide	LD50	Rabbit	1,350 mg/kg
Amines, C12-18-alkyldimethyl, N-oxides	LD50	Rat	> 2,000 mg/kg
Silicic acid, sodium salt	LD50	Rat	> 5,000 mg/kg

- Skin corrosion/irritation : Causes severe skin burns.
- Serious eye damage/eye irritation : Causes serious eye damage.
- 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
sodium hypochlorite, solution Cl active	LC50	Fish	0.06 mg/l	96 h
	NOEC		0.01 - < 0.1 mg/l	28 d
sodium hydroxide	LC50	Fish	35 - 189 mg/l	96 h

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Amines, C12-18-alkyldimethyl, N-oxides	LC50 semi-static test Measured	Oncorhynchus mykiss (rainbow trout)	1.26 mg/l	96 h
	NOEC Read-across (Analogy)	Pimephales promelas (fathead minnow)	0.495 mg/l	15 d
Silicic acid, sodium salt	LC50	Oncorhynchus mykiss (rainbow trout)	260 - 310 mg/l	96 h

Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
sodium hypochlorite, solution Cl active	EC50	Ceriodaphnia dubia	0.035 mg/l	48 h
sodium hydroxide	EC50	Daphnia magna (Water flea)	40.4 mg/l	48 h
Amines, C12-18-alkyldimethyl, N-oxides	EC50 static test	Daphnia magna (Water flea)	2.4 mg/l	48 h
	NOEC Read-across (Analogy)	Daphnia magna	0.7 mg/l	21 d
Silicic acid, sodium salt	EC50 static test	Daphnia magna (Water flea)	1,700 mg/l	48 h

Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
sodium hypochlorite, solution Cl active	ErC50	Pseudokirchneriella subcapitata (green algae)	0.0499 mg/l	
sodium hydroxide	No data available			
Amines, C12-18-alkyldimethyl, N-oxides	ErC50 Measured	Desmodesmus subspicatus (green algae)	0.8 mg/l	72 h
Silicic acid, sodium salt	EC50	Desmodesmus	> 345.4 mg/l	72 h

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		subspicatus (green algae)		
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12.2 Persistence and degradability

Component	Biodegradation	Exposure time	Summary
sodium hypochlorite, solution Cl active	No data available		
sodium hydroxide	No data available		
Amines, C12-18-alkyldimethyl, N-oxides	> 80 %	28 d	Readily biodegradable
Silicic acid, sodium salt	No data available		

12.3 Bioaccumulative potential

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
sodium hypochlorite, solution Cl active	No data available	-3.42
sodium hydroxide	0.89 estimated	-1.38
Amines, C12-18-alkyldimethyl, N-oxides	No data available	2.69
Silicic acid, sodium salt	No data available	No data available

12.4 Mobility in soil

Component	End point	Value
sodium hypochlorite, solution Cl active	No data available	
sodium hydroxide	No data available	
Amines, C12-18-alkyldimethyl, N-oxides	Koc	> 619
Silicic acid, sodium salt	No data available	

12.5 Results of PBT and vPvB assessment

Component	Results
sodium hypochlorite, solution Cl active	Not fulfilling PBT and vPvB criteria
sodium hydroxide	Not fulfilling PBT and vPvB criteria

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Amines, C12-18-alkyldimethyl, N-oxides	Not fulfilling PBT and vPvB criteria
Silicic acid, sodium salt	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	3266	3266	3266
14.2 UN proper shipping name	UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (sodium hydroxide, hypochlorite), 8, II	UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (sodium hydroxide, hypochlorite), 8, II	UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (sodium hydroxide, hypochlorite), 8, II
14.3 Transport hazard class(es)	8	8	8
14.4 Packing group	II	II	II
14.5 Environmental hazards			
14.6 Special precautions for user	Limited quantities derogation may be applicable to this product, please check transport documents.	Limited quantities derogation may be applicable to this product, please check transport documents.	Limited quantities derogation may be applicable to this product, please check transport documents.
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Product not transported as bulk.	Product not transported as bulk.	Product not transported as bulk.

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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

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

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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 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.