

Mr Muscle® Drain Gel

Version 3.1 Revision Date 09.08.2019 Print Date 07.09.2020 Specification Number: 35000007542 SITE FORM Number: 3000000000000006629.0063000000 00000006629.005

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

1.1 Product identifier	:	Mr Muscle [®] Drain Gel
		ostance or mixture and uses advised against 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 Poison Centre: 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	
Corrosive to metals	Category 1	May be corrosive to metals.	
Skin corrosion	Category 1	Causes severe skin burns and eye damage.	
Serious eye damage	Category 1	Causes serious eye damage.	
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Short-term (acute) aquatic hazard	Category 1	Very toxic to aquatic life.
Long-term (chronic) aquatic hazard	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



Signal word Danger

Contains Sodium hypochlorite caustic soda 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.
(P310) Immediately call a POISON CENTER/doctor.
(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.



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(P405) Store locked up.(P501) Dispose of contents /container in accordance with local regulations.(P280) Wear protective gloves.(P260) Do not breathe fume.

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.

Detergents regulations	:	Contains <pre>< = 5% chlorine-based bleaching agents, soap, amphoteric surfactants,</pre>
2.3 Other hazards	:	None identified

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Chemical name	CAS-No./EC No	0		Weight percent
Sodium hypochlorite	7681-52-9 231-668-3	01-2119488154-34	Skin corrosion Category 1B H314 Short-term (acute) aquatic hazard Category 1	>= 1.00 - < 5.00



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			H400	
			Long-term (chronic) aquatic hazard	
			Category 1	
			H410	
			Serious eye damage/eye irritation	
			Category 1	
			H318	
			M-Factor Acute - 10	
			M-Factor Chronic - 1	
caustic soda	1310-73-2 215-185-5	01-2119982981-22	Skin corrosion Category 1A H314 Serious eye damage Category 1	>= 1.00 - < 5.00
			H318	
sodium chlorate	7775-09-9 231-887-4	01-2119474389-23	Oxidizing solids Category 1 H271 Acute toxicity	>= 1.00 - < 5.00
			Category 4	
			H302	



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			aquatic hazard Category 2 H411	
sodium bromate	7789-38-0 232-160-4	01-2120767488-36	Acute toxicity Category 4 H302	>= 0.10 - < 0.50
			Skin corrosion/irritation Category 2 H315 Serious eye damage/eye irritation Category 2	
Amines, C12-18-alkyldimethyl, N-oxides	68955-55-5 931-341-1	01-2119489396-21	H319 Skin irritation Category 2 H315 Serious eye damage	>= 1.00 - < 5.00
			Category 1 H318 Long-term (chronic) aquatic hazard	



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Category 2
H411
Short-term (acute) aquatic hazard
Category 1
H400
Acute toxicity
Category 4
Н302
M-Factor Acute - 1

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.



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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.
	Get medical attention inmediately.
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 e	ffects 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.
Ingestion	: Causes digestive tract burns.
0	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.



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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.
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		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. 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)	:	Consumer uses: Private households (= general public = consumers) 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
caustic soda	1310-73-2	2 mg/m3			UK_WELSTEL

Refer to current EN or National standard as appropriate.

8.2 Exposure controls



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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.
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 : clear Odour odourless : Odour Threshold : Test not applicable for this product type рΗ : 13.4 (undiluted) Melting point/freezing point : 32 °F Initial boiling point and boiling range : >93 C Flash point : does not flash 10/21



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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
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
9.2 Other information		
Other information	:	None identified



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

11.1 Information on toxicological effects

Acute oral toxicity

Name	Method	Species	Dose
Product	LD50		> 2 g/kg
	Calculated		

Acute inhalation toxicity



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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 Calculated		> 2,000 mg/kg

Acute oral toxicity

Name	Method	Species	Dose
Sodium hypochlorite	LD50	Rat	1,100 mg/kg
caustic soda	LD50 Measured	Rat	325 mg/kg
sodium chlorate	LD50	Rat	4,950 mg/kg
sodium bromate	LD50	Rat	157 mg/kg
Amines, C12-18-alkyldimethyl, N- oxides	LD50 Measured	Rat	846 mg/kg

Acute inhalation toxicity

Name	Method	Species	Dose	Exposure time	
Sodium hypochlorite	No data available				
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caustic soda	No data available			
sodium chlorate	LC50 (dust and mist)	Rat	> 5.59 mg/l	4.5 h
sodium bromate	No data available			
Amines, C12-18-alkyldimethyl, N- oxides	No data available			

Acute dermal toxicity

Name	Method	Species	Dose
Sodium hypochlorite	LD50	Rabbit	> 20,000 mg/kg
caustic soda	LD50	Rabbit	1,350 mg/kg
sodium chlorate	LD50	Rabbit	> 2,000 mg/kg
sodium bromate	No data available		
Amines, C12-18-alkyldimethyl, N-oxides	LD50 Measured	Rat	> 2,000 mg/kg

		14/21
Carcinogenicity	:	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	:	Based on available data, the classification criteria are not met.
Skin sensitisation	:	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	:	Causes serious eye damage.
Skin corrosion/irritation	:	Causes severe skin burns.



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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	LC50	Fish	0.06 mg/l	96 h
	NOEC		0.01 - < 0.1 mg/l	28 d
caustic soda	LC50	Fish	35 - 189 mg/l	96 h
sodium chlorate	LC50	Lepomis macrochirus (Bluegill sunfish)	1,000 mg/l	96 h
	NOEC	Danio rerio (zebra fish)	> 500 mg/l	36 d
sodium bromate	No data available			



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Amines, C12-18-alkyldimethyl, N- oxides	LC50 semi-static test Measured OECD Test Guideline 203	Oncorhynchus mykiss (rainbow trout)	1.26 mg/l	96 h
	NOEC Read-across (Analogy)	Pimephales promelas (fathead minnow)	0.495 mg/l	15 d

Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
Sodium hypochlorite	EC50	Ceriodaphnia dubia	0.035 mg/l	48 h
caustic soda	EC50	Daphnia magna (Water flea)	40.4 mg/l	48 h
sodium chlorate	EC50	Daphnia magna (Water flea)	1,172 mg/l	48 h
	NOEC	Daphnia magna	> 500 mg/l	21 d
sodium bromate	EC50 static test	Daphnia magna (Water flea)	> 100 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

Toxicity to aquatic plants



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Components End point		Species	Value	Exposure time	
Sodium hypochlorite	ErC50	Pseudokirchneriella subcapitata (green algae)	0.0499 mg/l	72 h	
caustic soda	No data available				
sodium chlorate	EbC50	Scenedesmus capricornutum (fresh water algae)	129 mg/l	72 h	
sodium bromate	NOEC Static	Scenedesmus sp.	31.6 mg/l	72 h	
Amines, C12-18-alkyldimethyl, N- oxides	ErC50 Measured	Desmodesmus subspicatus (green algae)	0.8 mg/l	72 h	

12.2 Persistence and degradability

Component	Biodegradation	Exposure time	Summary
Sodium hypochlorite	No data available		
caustic soda	No data available		
sodium chlorate			Not readily biodegradable.
sodium bromate	No data available		
Amines, C12-18-alkyldimethyl, N- oxides	> 80 %	28 d	Readily biodegradable.

12.3 Bioaccumulative potential

	Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
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Sodium hypochlorite	No data available	-3.42	
caustic soda	0.89 estimated	-1.38	
sodium chlorate	No data available	No data available	
sodium bromate	No data available	No data available	
Amines, C12-18-alkyldimethyl, N- oxides	No data available	2.69	

12.4 Mobility in soil

Component	End point	Value	
Sodium hypochlorite	No data available		
caustic soda	No data available		
sodium chlorate	No data available		
sodium bromate	No data available		
Amines, C12-18-alkyldimethyl, N-	Кос	> 619	
oxides			

12.5 Results of PBT and vPvB assessment

Component	Results	
Sodium hypochlorite	Not fulfilling PBT and vPvB criteria	
caustic soda	Not fulfilling PBT and vPvB criteria	
sodium chlorate	Not fulfilling PBT and vPvB criteria	
sodium bromate	Not fulfilling PBT and vPvB criteria	
Amines, C12-18-alkyldimethyl, N-oxides	Not fulfilling PBT and vPvB criteria	



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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	1760	1760	1760
14.2 UN proper shipping	Corrosive Liquid, N.O.S.	Corrosive Liquid, N.O.S.	Corrosive Liquid, N.O.S.
name	(Sodium Hydroxide,	(Sodium Hydroxide,	(Sodium Hydroxide,
	Sodium Hypochlorite)	Sodium Hypochlorite)	Sodium Hypochlorite)
14.3 Transport hazard	8	8	8
class(es)			
14.4 Packing group	II	П	11
14.5 Environmental		Marine pollutant	
hazards			
14.6 Special precautions	Limited quantities	Limited quantities	Limited quantities
for user	derogation may be	derogation may be	derogation may be
	applicable to this product,	applicable to this product,	applicable to this product,
	please check transport	please check transport	please check transport
	documents.	documents.	documents.
14.7 Transport in bulk	Product not transported as	Product not transported as	Product not transported as



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according to Annex II of	bulk.	bulk.	bulk.
MARPOL 73/78 and the			
IBC Code			

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	:	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.

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.



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Full text of H-Statements

H271	May cause fire or explosion; strong oxidizer.
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.
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.