

**SAFETY DATA SHEET**

(according to Regulation (EC) No. 1907/2006)

**Toilet Duck / Mr Muscle Anti-Limescale Manual Toilet Bowl Cleaner EU**

Version 2.0

Revision Date 09.03.2015

Print Date 26.04.2017

Specification Number: 350000025059

SITE FORM Number:  
30000000000000017761.001**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier** : Toilet Duck / Mr Muscle Anti-Limescale Manual Toilet Bowl Cleaner EU**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**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 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.
Corrosive to metals	Category 1	May be corrosive to metals.

**2.2 Label elements**

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

**Hazard symbols**

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**Signal word**  
Danger

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

**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.  
(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.  
(P303 + P361 + P353) IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
(P405) Store locked up.  
(P280) Wear protective gloves / eye protection.  
(P264) Wash hands thoroughly after handling.

**Additional Labelling**  
For use only in toilet bowls.  
As with any household product avoid prolonged skin contact with this product  
Do not mix with bleach or any other household cleaners.

**Detergents regulations** : **Contains**  
< 5% non-ionic surfactants, perfume

**2.3 Other hazards** : None identified

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**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
Hydrochloric acid	7647-01-0/231-595-7	-	Gases under pressure H280 Acute toxicity Category 3 H331 Skin corrosion Category 1A H314	>= 5.00 - < 10.00
2,2'-(octadec-9-enylimino)bisethanol	25307-17-9/246-807-3	-	Acute toxicity Category 4 H302 Skin corrosion/irritation Category 1B H314 Acute aquatic toxicity Category 1 H400 Chronic aquatic toxicity Category 1 H410	>= 1.00 - < 5.00
Alcohols, C13-15-branched and linear, ethoxylated EO=8	157627-86-6/500-337-8	02-2119548515-35-0000	Chronic aquatic toxicity Category 3 H412 Serious eye damage Category 1 H318	>= 1.00 - < 5.00

**Additional Information**

For the full text of the H-Statements mentioned in this Section, see Section 16.

**4. FIRST AID MEASURES****4.1 Description of first aid measures**

- Inhalation : Move to fresh air.  
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.
- 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 : Do not mix with bleach or any other household cleaners.  
May cause respiratory tract irritation.  
No adverse effects expected when used as directed.
- 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.

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**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.

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**6. ACCIDENTAL RELEASE MEASURES**

- 6.1 Personal precautions, protective equipment and emergency procedures** : Use personal protective equipment.
- 6.2 Environmental precautions** : Prevent 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.

**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** : 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)

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

**Occupational Exposure Limit Values**

Components	CAS-No.	mg/m <sup>3</sup>	ppm	Form of exposure	List
Hydrochloric acid	7647-01-0	15 mg/m <sup>3</sup>	10 ppm		EUOEL_STEL
		8 mg/m <sup>3</sup>	5 ppm		EUOEL_TWAS

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		8 mg/m3	5 ppm		EUOEL_TWAS
		8 mg/m3	5 ppm	aerosol mist and gas	UK_WELSTEL
		8 mg/m3	5 ppm	aerosol mist and gas	UK_WELSTEL
		2 mg/m3	1 ppm	aerosol mist and gas	UK_WELTWAS
		2 mg/m3	1 ppm	aerosol mist and gas	UK_WELTWAS

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.  
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.

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

- Appearance : liquid
- Colour : green
- Odour : green
- Odour Threshold : No data available
- pH : < 1
- Melting point/freezing point : No data available
- Initial boiling point and boiling range : 100 °C

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Flash point	:	> 100 °C	
Evaporation rate	:	No data available	
Flammability (solid, gas)	:	Does not sustain combustion.	
Upper/lower flammability or explosive limits	:	No data available	
Vapour pressure	:	No data available	
Vapour density	:	No data available	
Relative density	:	1.03 - 1.05 g/cm <sup>3</sup>	
Solubility(ies)	:	soluble	
Partition coefficient: n-octanol/water	:	No data available	
Auto-ignition temperature	:	Test not applicable for this product type	
Decomposition temperature	:	No data available	
Viscosity, dynamic	:	500 - 800 mPa.s at 25 °C	
Viscosity, kinematic	:	No data available	
Explosive properties	:	No data available	
Oxidizing properties	:	No data available	
Other information	:	None identified	:

**10. STABILITY AND REACTIVITY**

<b>10.1 Reactivity</b>	:	Do not mix with bleach or any other household cleaners.
<b>10.2 Chemical stability</b>	:	Stable under recommended storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	:	Do not mix with bleach or any other household cleaners.
<b>10.4 Conditions to avoid</b>	:	Extremes of temperature and direct sunlight.
<b>10.5 Incompatible materials</b>	:	Do not mix with bleach or any other household cleaners.

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**10.6 Hazardous decomposition products** : No decomposition if stored and applied as directed.

**11. TOXICOLOGICAL INFORMATION****Information on toxicological effects****Acute oral toxicity**

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

**Acute inhalation toxicity**

No data available

**Acute dermal toxicity**

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

**Acute oral toxicity**

Name	Method	Species	Dose
Hydrochloric acid	EU CLP LD50	Rat	238 mg/kg
2,2'-(octadec-9-enylimino)bisethanol	EU CLP LD50	Rat	1,260 mg/kg

**Acute dermal toxicity**

Name	Method	Species	Dose
Hydrochloric acid	LD50	Rabbit	> 5,010 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.



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Aspiration hazard : Based on available data, the classification criteria are not met.

**12. ECOLOGICAL INFORMATION****Product** : The product itself has not been tested.**12.1 Toxicity****Toxicity to fish**

Components	End point	Species	Value	Exposure time
Hydrochloric acid	LC50 semi-static test	Lepomis macrochirus (Bluegill sunfish)	3.25 - 3.5 mg/l	96 h
2,2'-(octadec-9-enylimino)bisethanol	LC50	Danio rerio (zebra fish)	0.1 - 1 mg/l	96 h
Alcohols, C13-15-branched and linear, ethoxylated EO=8	No data available			

**Toxicity to aquatic invertebrates**

Components	End point	Species	Value	Exposure time
Hydrochloric acid	EC50 static test	Daphnia magna (Water flea)	4.92 mg/l	48 h
2,2'-(octadec-9-enylimino)bisethanol	EC50	Daphnia magna (Water flea)	0.043 mg/l	48 h
	EC50	Daphnia magna (Water flea)	0.301 mg/l	21 d
Alcohols, C13-15-branched and linear, ethoxylated EO=8	No data available			

**Toxicity to aquatic plants**

Components	End point	Species	Value	Exposure time
Hydrochloric acid	EC50 static test	Chlorella vulgaris (Fresh water algae)	4.7 mg/l	72 h
2,2'-(octadec-9-enylimino)bisethanol	EC50	Pseudokirchneriella subcapitata (green algae)	0.0867 mg/l	72 h
Alcohols, C13-15-branched and linear, ethoxylated EO=8	No data available			

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Component	Biodegradation	Exposure time	Summary
Hydrochloric acid	No data available		
2,2'-(octadec-9-enylimino)bisethanol			Not readily biodegradable.
Alcohols, C13-15-branched and linear, ethoxylated EO=8			

**12.3 Bioaccumulative potential**

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
Hydrochloric acid	No data available	0.25
2,2'-(octadec-9-enylimino)bisethanol	No data available	3.4
Alcohols, C13-15-branched and linear, ethoxylated EO=8	No data available	No data available

**12.4 Mobility**

Component	End point	Value
Hydrochloric acid	No data available	
2,2'-(octadec-9-enylimino)bisethanol	log Koc	1.91
Alcohols, C13-15-branched and linear, ethoxylated EO=8	No data available	

**12.5 PBT and vPvB assessment**

Component	Results
Hydrochloric acid	Not fulfilling PBT and vPvB criteria
2,2'-(octadec-9-enylimino)bisethanol	Not fulfilling PBT and vPvB criteria

**12.6 Other adverse effects** : None known.**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.

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Packaging : Do not re-use empty containers.

**14. TRANSPORT INFORMATION**

	Land transport	Sea transport	Air transport
<b>14.1 UN number</b>	3264	3264	3264
<b>14.2 UN proper shipping name</b>	UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric acid), 8, II, Ltd. Qty.	UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric acid), 8, II, Ltd. Qty.	UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric acid), 8, II, Ltd. Qty.
<b>14.3 Transport hazard class(es)</b>	8	8	8
<b>14.4 Packing group</b>	II	II	II
<b>14.5 Environmental hazards</b>			
<b>14.6 Special precautions for user</b>	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.
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Product not transported as bulk.	Product not transported as bulk.	Product not transported as bulk.

**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.

**16. OTHER INFORMATION**

If applicable, revision(s) are noted by the bold bars || in left-hand margin.

**Further information****||**

H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

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H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful 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.