

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



Toilet Duck Anti-Limescale Marine

Version 1.0

Print Date 07/29/2016

Revision Date 07/18/2016

SDS Number 300000069637
GEN_SOF Number 59388

1. PRODUCT AND COMPANY IDENTIFICATION

Product Information

Product name : Toilet Duck Anti-Limescale Marine

Recommended use : Toilet Cleaner

Manufacturer, importer, supplier : S.C. Johnson & Son, Inc.
1525 Howe Street
Racine WI 53403-2236

Telephone : +18005585252

Emergency telephone number : 24 Hour Medical Emergency Phone: (866)231-5406
24 Hour International Emergency Phone: (703)527-3887
24 Hour Transport Emergency Phone: (800)424-9300

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Globally Harmonized System (GHS) Classification

Hazard classification	Hazard category	Hazards identification
Skin corrosion	Category 1	Causes severe skin burns and eye damage.
Serious eye damage	Category 1	Causes serious eye damage.

Labelling

Hazard symbols

Corrosion

Signal word

Danger

Hazard statements

Causes severe skin burns and eye damage.

Precautionary statements

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



Toilet Duck Anti-Limescale Marine

Version 1.0

Print Date 07/29/2016

Revision Date 07/18/2016

SDS Number 300000069637
GEN_SOF Number 59388

Immediately call a POISON CENTER or doctor/ physician.
Specific treatment (see supplemental first aid instructions on this label).
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Wash contaminated clothing before reuse.
Store locked up.
Dispose of contents/ container to an approved incineration plant.
Wear protective gloves.
Do not breathe dust or mist.
Wash hands thoroughly after handling.
Other hazards : None identified

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight percent
Hydrochloric acid	7647-01-0	5.00 - 10.00
2,2'-(octadec-9-enylimino)bisethanol	25307-17-9	1.00 - 5.00
Alcohols, C13-15-branched and linear, ethoxylated EO=8	157627-86-6	1.00 - 5.00

The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

For additional information on product ingredients, see www.whatsinsidescjohnson.com.

4. FIRST AID MEASURES

- Eye contact** : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Get medical attention immediately.
- Skin contact** : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



Toilet Duck Anti-Limescale Marine

Version 1.0

Print Date 07/29/2016

Revision Date 07/18/2016

SDS Number 300000069637

GEN_SOF Number 59388

doctor/ physician.

Inhalation : IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Ingestion : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards during firefighting : Container may melt and leak in heat of fire.

Further information : Wear full protective clothing and positive pressure self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear personal protective equipment.
Wash thoroughly after handling.

Environmental precautions : Outside of normal use, avoid release to the environment.

Methods and materials for containment and cleaning up : Dike large spills.
Clean residue from spill site.

7. HANDLING AND STORAGE

Handling

Precautions for safe handling : Avoid contact with skin, eyes and clothing.
For personal protection see section 8.
Use only as directed.
KEEP OUT OF REACH OF CHILDREN AND PETS.

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



Toilet Duck Anti-Limescale Marine

Version 1.0

Print Date 07/29/2016

Revision Date 07/18/2016

SDS Number 300000069637
GEN_SOF Number 59388

Avoid breathing vapours, mist or gas.
Wash thoroughly after handling.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Storage

Requirements for storage areas and containers : Keep container closed when not in use.
Store locked up.

Other data : No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Components	CAS-No.	mg/m3	ppm	Non-standard units	Basis
Hydrochloric acid	7647-01-0	-	2 ppm	-	ACGIH Ceiling
Hydrochloric acid	7647-01-0	7 mg/m3	5 ppm	-	OSHA Ceiling
Hydrochloric acid	7647-01-0	7 mg/m3	5 ppm	-	OSHA Ceiling
Hydrochloric acid	7647-01-0	-	2 ppm	-	ACGIH Ceiling

Personal protective equipment

Respiratory protection : Substantial amounts of mist/vapors can be controlled with local exhaust ventilation or respiratory protection.

Hand protection : Rubber gloves

Eye protection : Wear splash-resistant Chemical goggles.

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



Toilet Duck Anti-Limescale Marine

Version 1.0

Print Date 07/29/2016

Revision Date 07/18/2016

SDS Number 300000069637
GEN_SOF Number 59388

- Skin and body protection** : Protective footwear.
- Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form** : liquid
- Color** : green
- Odor** : Marine/Ozone

- Odour Threshold** : Test not applicable for this product type

- pH** : < 1

- Melting point/freezing point** : 0 °C
- Initial boiling point and boiling range** : 100 °C
- Flash point** : > 100 °C
> 212 °F

- 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

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



Toilet Duck Anti-Limescale Marine

Version 1.0

Print Date 07/29/2016

Revision Date 07/18/2016

SDS Number 300000069637
GEN_SOF Number 59388

Vapour density	:	Test not applicable for this product type	
Relative density	:	1.01 - 1.05 g/cm3	
Solubility(ies)	:	soluble	
Partition coefficient: n-octanol/water	:	Test not applicable for this product type	
Auto-ignition temperature	:	Not applicable	
Decomposition temperature	:	Test not applicable for this product type	
Viscosity, dynamic	:	400 - 700 mPa.s at 20 °C	
Viscosity, kinematic	:	Test not applicable for this product type	
Oxidizing properties	:	Test not applicable for this product type	
Volatile Organic Compounds Total VOC (wt. %)*	:	0.1 % - additional exemptions may apply *as defined by US Federal and State Consumer Product Regulations	
Other information	:	None identified	:

10. STABILITY AND REACTIVITY

Possibility of hazardous reactions : Stable under recommended storage conditions.

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



Toilet Duck Anti-Limescale Marine

Version 1.0

Print Date 07/29/2016

Revision Date 07/18/2016

SDS Number 300000069637
GEN_SOF Number 59388

- Conditions to avoid** : Direct sources of heat.
- Incompatible materials** : Do not mix with bleach or any other household cleaners.
- Hazardous decomposition products** : Thermal decomposition can lead to release of irritating gases and vapours.

11. TOXICOLOGICAL INFORMATION

- Emergency Overview** : Danger
- Acute oral toxicity** : LD50 3715 mg/kg
- Acute inhalation toxicity** : LC50 > 10 mg/L
- Acute dermal toxicity** : LD50 > 5000 mg/kg

GHS Properties	Classification	Routes of entry
Acute toxicity	No classification proposed	Oral
Acute toxicity	No classification proposed	Dermal
Acute toxicity	No classification proposed	Inhalation - Dust and Mist
Acute toxicity	No classification proposed	Inhalation - Vapour
Acute toxicity	No classification proposed	Inhalation - Gas
Skin corrosion	Category 1	-
Serious eye damage	Category 1	-
Skin sensitisation	No classification proposed	-
Respiratory sensitisation	No classification proposed	-
Germ cell mutagenicity	No classification proposed	-

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



Toilet Duck Anti-Limescale Marine

Version 1.0

Print Date 07/29/2016

Revision Date 07/18/2016

SDS Number 300000069637
GEN_SOF Number 59388

Carcinogenicity	No classification proposed	-
Reproductive toxicity	No classification proposed	-
Specific target organ toxicity - single exposure	No classification proposed	-
Specific target organ toxicity - repeated exposure	No classification proposed	-
Aspiration hazard	No classification proposed	-

Aggravated Medical Condition : None known.

12. ECOLOGICAL INFORMATION

Product : The product itself has not been tested.

Toxicity

The ingredients in this formula have been reviewed and no adverse impact to the environment is expected when used according to label directions.

Toxicity to fish

Components	End point	Species	Value	Exposure time
Hydrochloric acid	semi-static test LC50	Lepomis macrochirus (Bluegill sunfish)	3.25 - 3.5 mg/l	96 h
2,2'-(octadec-9-enylimino)bisethanol	LC50 Read-across (Analogy)	Danio rerio (zebra fish)	0.1 mg/l	96 h
Alcohols, C13-15-branched	LC50	Oncorhynchus mykiss	> 1 - < 10	48 h

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



Toilet Duck Anti-Limescale Marine

Version 1.0

Print Date 07/29/2016

Revision Date 07/18/2016

SDS Number 300000069637

GEN_SOF Number 59388

and linear, ethoxylated EO=8		(rainbow trout)	mg/l	
------------------------------	--	-----------------	------	--

Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
Hydrochloric acid	static test EC50	Daphnia magna (Water flea)	4.92 mg/l	48 h
2,2'-(octadec-9-enylimino)bisethanol	EC50 Measured	Daphnia magna (Water flea)	0.043 mg/l	48 h
	EC10	Daphnia magna (Water flea)	0.0107 mg/l	21 d
Alcohols, C13-15-branched and linear, ethoxylated EO=8	EC50	Daphnia magna (Water flea)	> 1 - < 10 mg/l	48 h

Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
Hydrochloric acid	static test EC50	Chlorella vulgaris (Fresh water algae)	4.7 mg/l	72 h
2,2'-(octadec-9-enylimino)bisethanol	Growth inhibition EC50	Pseudokirchneriella subcapitata (green algae)	0.0867 mg/l	72 h
Alcohols, C13-15-branched and linear, ethoxylated EO=8	EC50	Desmodesmus subspicatus (green algae)	> 1 - < 10 mg/l	72 h

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200

**Toilet Duck Anti-Limescale Marine**

Version 1.0

Print Date 07/29/2016

Revision Date 07/18/2016

SDS Number 300000069637
GEN_SOF Number 59388**Persistence and degradability**

Component	Biodegradation	Exposure time	Summary
Hydrochloric acid	No data available		
2,2'-(octadec-9-enylimino)bisethanol	44 %	28 d	Not readily biodegradable.
Alcohols, C13-15-branched and linear, ethoxylated EO=8	60 %	28 d	Readily biodegradable

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 Calculated
Alcohols, C13-15-branched and linear, ethoxylated EO=8	No data available	No data available

Mobility

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

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
Alcohols, C13-15-branched and linear, ethoxylated EO=8	Not fulfilling PBT and vPvB criteria

Other adverse effects : None known.

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



Toilet Duck Anti-Limescale Marine

Version 1.0

Print Date 07/29/2016

Revision Date 07/18/2016

SDS Number 300000069637
GEN_SOF Number 59388

13. DISPOSAL CONSIDERATIONS

Consumer may discard empty container in trash, or recycle where facilities exist.

14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/receiving documents for up-to-date shipping information.

	Land transport	Sea transport	Air transport
UN number	1789	1789	1789
UN proper shipping name	UN 1789 HYDROCHLORIC ACID, mixture, 8, II	UN 1789 HYDROCHLORIC ACID, mixture, 8, II	UN 1789 HYDROCHLORIC ACID, mixture, 8, II
Transport hazard class(es)	8	8	8
Packing group	II	II	II
Environmental hazards	-	-	-
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.

15. REGULATORY INFORMATION

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



Toilet Duck Anti-Limescale Marine

Version 1.0

Print Date 07/29/2016

Revision Date 07/18/2016

SDS Number 300000069637
GEN_SOF Number 59388

16. OTHER INFORMATION

HMIS Ratings

Health	3
Flammability	0
Reactivity	0

NFPA Ratings

Health	3
Fire	0
Reactivity	0
Special	-

This information is being provided in accordance with the Occupational Safety and Health Administration (OSHA) regulation (29 CFR 1910.1200). The information supplied is designed for workplaces where product use and frequency of exposure exceeds that established for the labeled consumer use.

Further information

This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

Prepared by	SC Johnson Global Safety Assessment & Regulatory Affairs (GSARA)
-------------	--