

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**Toilet Duck Anti-Limescale Citrus wave**

Version 1.0

Print Date 07/29/2016

Revision Date 07/18/2016

SDS Number 300000069638  
GEN\_SOF Number 59841

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product information**

**Product name** : Toilet Duck Anti-Limescale Citrus wave

**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.

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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](http://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

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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.

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**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.

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**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.

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**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.

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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.

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

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

- Form** : liquid
- Color** : green
- Odor** : Citrus
  
- 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

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<b>Vapour density</b>	: Test not applicable for this product type
<b>Relative density</b>	: 1.01 - 1.05 g/cm <sup>3</sup>
<b>Solubility(ies)</b>	: soluble
<b>Partition coefficient: n-octanol/water</b>	: Test not applicable for this product type
<b>Auto-ignition temperature</b>	: Not applicable
<b>Decomposition temperature</b>	: Test not applicable for this product type
<b>Viscosity, dynamic</b>	: 400 - 700 mPa.s at 20 °C
<b>Viscosity, kinematic</b>	: Test not applicable for this product type
<b>Oxidizing properties</b>	: Test not applicable for this product type
<b>Volatile Organic Compounds Total VOC (wt. %)*</b>	: 0.1 % - additional exemptions may apply *as defined by US Federal and State Consumer Product Regulations
<b>Other Information</b>	: None identified

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**10. STABILITY AND REACTIVITY**

**Possibility of hazardous reactions** : Stable under recommended storage conditions.

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- 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.

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**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	-

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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



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

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**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.

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**13. DISPOSAL CONSIDERATIONS**

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

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**14. TRANSPORT INFORMATION**

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

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

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**15. REGULATORY INFORMATION**

**Notification status** : All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

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**16. OTHER INFORMATION**

**HMIS Ratings**

<b>Health</b>	3
<b>Flammability</b>	0
<b>Reactivity</b>	0

**NFPA Ratings**

<b>Health</b>	3
<b>Fire</b>	0
<b>Reactivity</b>	0
<b>Special</b>	-

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)
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