

**SAFETY DATA SHEET**

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

**DUCK® Liquid – Ocean (Professional)**Version 2.0  
Revision Date 02.12.2016Print Date 27.03.2017  
Specification Number: 350000025912  
SITE FORM Number:  
30000000000000006707.005**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

- 1.1 Product identifier** : DUCK® Liquid – Ocean (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 known.
- 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)

This product does not meet the criteria for classification in any hazard class according to regulation (EC) 1272/2008.

**2.2 Label elements**

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

**Active Ingredients (BPR)**

l-(+)-lactic acid 2.02% (2.02g/100g)

**Precautionary statements**

(P102) Keep out of reach of children.

(P264) Wash hands thoroughly after handling.

(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 + P312) IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

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As with any household product avoid prolonged skin contact with this product

For use only in toilet bowls.

Do not mix with bleach or any other household cleaners.

For professional users only.

Safety data sheet available for professional user on request.

**Detergents regulations** :**Contains**

&lt; 5% Anionic surfactants, non-ionic surfactants, Disinfectants, perfume

**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
l-(+)-lactic acid	79-33-4 201-196-2	01-2119474164-39	Skin corrosion/irritation Category 2 H315 Serious eye damage/eye irritation Category 1 H318	>= 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	>= 0.50 - < 1.00

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			Serious eye damage Category 1 H318 Acute toxicity Category 4 H302	
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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 : No special requirements
- Skin contact : Rinse with plenty of water.  
Get medical attention if irritation develops and persists.
- Eye contact : Rinse with plenty of water.  
Get medical attention if irritation develops and persists.
- Ingestion : If symptoms persist, call a physician.

**4.2 Most important symptoms and effects, both acute and delayed**

- Eyes : No adverse effects expected when used as directed.
- Skin effect : 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 : No adverse effects expected when used as directed.

**4.3 Indication of any immediate medical attention and special treatment needed**

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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.

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**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. Use appropriate containment to avoid environmental contamination. Prevent large amounts of product from entering drains. Prevent further leakage or spillage if safe to do so.

**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.

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**SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling** : For personal protection see section 8. Normal measures for preventive fire protection.

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- 7.2 Conditions for safe storage, including any incompatibilities** : Do not freeze.  
Keep out of the reach of children.  
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)

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

**Occupational Exposure Limit Values**

Contains no substances with occupational exposure limit values.

Refer to current EN or National standard as appropriate.

**8.2 Exposure controls**

- Respiratory protection : No personal respiratory protective equipment normally required.
- 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 : No special requirements.
- Skin and body protection : Wear suitable protective clothing.  
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.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

- Appearance : liquid
- Colour : blue

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Odour	:	Marine/Ozone	
Odour Threshold	:	Test not applicable for this product type	
pH	:	2.2 - 2.6	
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	:	does not flash	
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	
Vapour density	:	Test not applicable for this product type	
Relative density	:	1.003 - 1.007 g/cm <sup>3</sup> at 20 °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	:	1,300 - 1,900 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**

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- 10.1 Reactivity** : Do not mix with bleach or any other household cleaners.
- 10.2 Chemical stability** : Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions** : Do not mix with bleach or any other household cleaners.
- 10.4 Conditions to avoid** : Extremes of temperature and direct sunlight.
- 10.5 Incompatible materials** : Do not mix with bleach or any other household cleaners.
- 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		> 2,000 mg/kg

## Acute inhalation toxicity

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
l-(+)-lactic acid	LD50	Rat	3,543 mg/kg

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Alcohols, C13-15-branched and linear, ethoxylated EO=8	No data available		
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**Acute inhalation toxicity**

Name	Method	Species	Dose	Exposure time
l-(+)-lactic acid	LC50 (dust and mist)	Rat	> 7.94 mg/l	4 h
Alcohols, C13-15-branched and linear, ethoxylated EO=8	No data available			

**Acute dermal toxicity**

Name	Method	Species	Dose
l-(+)-lactic acid	LD50	Rabbit	> 2,000 mg/kg
Alcohols, C13-15-branched and linear, ethoxylated EO=8	No data available		

- Skin corrosion/irritation : Based on available data, the classification criteria are not met.
- Serious eye damage/eye irritation : Based on available data, the classification criteria are not met.
- 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.



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SITE FORM Number:  
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Components	End point	Species	Value	Exposure time
l-(+)-lactic acid	LC50 static test	Oncorhynchus mykiss (rainbow trout)	100 - 180 mg/l	96 h
Alcohols, C13-15-branched and linear, ethoxylated EO=8	LC50	Oncorhynchus mykiss (rainbow trout)	> 1 - < 10 mg/l	48 h

**Toxicity to aquatic invertebrates**

Components	End point	Species	Value	Exposure time
l-(+)-lactic acid	EC50 static test	Daphnia magna (Water flea)	130 mg/l	48 h
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
l-(+)-lactic acid	EC50 static test	Pseudokirchneriella subcapitata (green algae)	> 2,800 mg/l	72 h
Alcohols, C13-15-branched and linear, ethoxylated EO=8	EC50	Desmodesmus subspicatus (green algae)	> 1 - < 10 mg/l	72 h

**12.2 Persistence and degradability**

Component	Biodegradation	Exposure time	Summary
l-(+)-lactic acid	67 %	20 d	Readily biodegradable
Alcohols, C13-15-branched and linear, ethoxylated EO=8	60 %	28 d	Readily biodegradable

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Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
l-(+)-lactic acid	No data available	-0.62
Alcohols, C13-15-branched and linear, ethoxylated EO=8	No data available	No data available

**12.4 Mobility in soil**

Component	End point	Value
l-(+)-lactic acid	log Koc	< 1.32
Alcohols, C13-15-branched and linear, ethoxylated EO=8	No data available	

**12.5 Results of PBT and vPvB assessment**

Component	Results
l-(+)-lactic acid	Not fulfilling PBT and vPvB criteria
Alcohols, C13-15-branched and linear, ethoxylated EO=8	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**

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**Land transport**

Not classified as dangerous in the meaning of transport regulations.

**Sea transport**

Not classified as dangerous in the meaning of transport regulations.

**Air transport**

Not classified as dangerous in the meaning of transport regulations.

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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.

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**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**

H302	Harmful if swallowed.
H315	Causes skin irritation.

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H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

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