

Toucan Eco safety data sheet

1. Product identification

Product name	Toucan Eco water
General use	Electrochemical activation between water and salt that creates a multipurpose disinfectant and cleaner which kills more than 99.99% of microorganisms.
Chemical family	Chlorine compounds of hypochlorous acid (HOCl) and sodium hypochlorite (NaOCl). Also contains chlor-oxygen species that are short-lived with oxidant-demanding substances.
Manufacturer	Centrego Ltd., The Coach House, Newbury Frome, Somerset BA11 3RG, UK.

2. Composition / ingredients

Chemical name	PPM	Percent	CAS #
Hypochlorous acid (HOCl)	20ppm	0.002%	7790-92-3
Sodium hypochlorite (NaCl)	80ppm	0.008%	7647-14-5
Water	N/A	99.99%	7732-18-5

3. Hazards identification & emergency overview

Immediate concerns	No hazard under normal conditions of use.
Skin effects	Negative.
Eye effects	Negative.
Carcinogenic effects	Negative.
Mutagenic effects	Negative.
Teratogenic effects	No known significant affects or critical hazards.
Developmental toxicity	No known significant affects or critical hazards.

4. First aid measures

Eyes	Rinse with water, and seek medical attention if any irritation persists.
Skin	In the strongest form may cause slight irritation to sensitive skin or open wounds. Wash with water.
Ingestion	Drink large quantities of water and consult with a physician.
Inhalation	During activation in its strong form adequate ventilation will prevent the build up to fumes, however if dizziness occurs, move into an open space.

5. Firefighting measures

The solution produced by Toucan Eco devices is not flammable.

Flammable limits	Not available.
Flammable class	Non-flammable.
Flame propagation or burning rate of solids	Not available.
General hazard	Evacuate personnel downwind of fire to avoid inhalation of fumes and smoke.
Extinguishing media	Chemical type foam, powder, sand, water spray.
Hazardous combustion products	Oxides of chlorine.
Firefighting procedures	The solution is non-flammable, however cool exposed containers with water spray to prevent overheating.
Sensitive to static discharge	Not available
Sensitivity to impact	Not available

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6. Accidental release measures

Spillages No special requirement. Wash to waste.

7. Handling and storage

Handling No special requirement. Wash to waste.

Storage Best stored in sealed containers out of sunlight and between 5 and 40°C to prolong shelf life.

8. Exposure controls / personal protection

Respiratory protection Not necessary.

Protective clothing Not necessary.

Ventilation Good room ventilation is adequate for devices.

9. Physical and chemical properties

Physical state Liquid.

Odour Slight chlorine smell.

Appearance Clear liquid.

pH 7.5 to 8.2.

Vapour pressure Not available.

Vapour density Not available.

Boiling point Not available.

Freezing point Not available.

Melting point 68°C (154.4F)

Solubility in water Soluble.

Density 0.9g/ml at 20°C (68F).

Viscosity Not available.

Molecular formula Not available.

Molecular weight Not available.

Coeff. Oil/water Not available.

10. Stability and reactivity

Stable Yes.

Hazardous polymerization No.

Conditions to avoid Heat.

Stability This product is stable under normal ambient conditions of temperature and pressure.

Polymerization Will not occur.

Hazardous decomposition products Oxides of chlorine; amine vapours.

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11. Toxicology information

Routes of entry	Absorbed through the skin, eye contact, inhalation and ingestion.
Skin affects	Negative.
Eye effects	Negative.
Toxicity to animals	None.
Chronic effects on humans	None.
Carcinogenic effects	Negative.
Mutagenic effects	Negative.
Sensitization effects	Negative.
Other toxic effects	Negative.
Dermal LD50	> 5000 mg/kg.
Oral LD50	> 5000 mg/kg.
Inhalation LD50	Not available.

12. Ecological information

Environmental data	Presents no hazards to the environment,
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13. Disposal considerations

No special precautions are required for this product.

14. Transport information

Not applicable.

15. Regulatory information

United States	
HOCL	FDA material clearance No. 178.1010.
Canada	Not available.
European Community (EU)	
EEC label symbol and classification	No S or R phrases assigned.
CE	Available with generator.
European Community Regulatory	All intentional ingredients are listed on the European's EIMECS inventory.
State regulations	Not available.
Local regulations	Not available.

Legal disclaimer: The information supplied above is based upon the present state of our knowledge of the product at the time of publication. It is given in good faith and no warranty is implied with respect to the specification or quality of the product. Always use as directed.

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