

Toucan Eco safety data sheet

1. Product identification

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| Product name | Toucan Eco water |
| General use | Electrochemical activation between water and salt that creates a multipurpose disinfectant and cleaner which kills 99.999% 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 | 0.02% | 7790-92-3 |
| Sodium hypochlorite (NaCl) | 80ppm | 0.08% | 7647-14-5 |
| Water | N/A | 99.9% | 7732-18-5 |

3. Hazards identification & emergency overview

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| 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

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| 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.

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| 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

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| 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

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| 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

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| 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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