

# MATERIAL SAFETY DATA SHEET

**EKOKLEEN**

KILLS VIRUSES, BACTERIA & FUNGI

DISINFECTANT



|                 |                           |                               |                   |
|-----------------|---------------------------|-------------------------------|-------------------|
| Physical state: | Liquid.                   | Chemical                      | pH = 7.0 ± 0.5    |
| Appearance:     | Homogeneous clear, liquid | Oxidation Reduction Potential | ORP = >750mV      |
| Colour:         | Colourless                | Solubility                    | Complete in water |
| Odour:          | Mild chlorine/ozone odour | Boiling point                 | 100degC           |

## SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

|   |  |
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| Stability:                              | The product is stable under normal ambient conditions of temperature and pressure. Neutral Anolyte retains its optimal [i.e. sporicidal activity] Oxidation Reduction Potential (ORP) for a period of up to 48 hours, whereafter it progressively degrades to the ORP of source water. |
| Incompatibility (material to avoid):    | As a dilute aqueous solution Neutral Anolyte is reactive with concentrated acid and alkaline solutions as per standard chemical practices.   |
| Hazardous decomposition or bi-products: | Neutral Anolyte degrades to the quality of source water. May produce Oxides of Chlorine vapours.   |
| Hazardous polymerisation:               | No hazardous polymerisation products have been detected.   |
| Corrosion Potential:                    | Stainless Steel grades – 304=<10 <sup>-3</sup> mm/annum, 316=<10 <sup>-3</sup> mm/annum, 3CR12=<10 <sup>-1</sup> mm/annum, mild steel =0.35mm/annum, Galvanised steel=0.24mm/annum.  |

## SECTION 11. TOXICOLOGICAL INFORMATION

|                                    |  |
|------------------------------------|--|
| Acute toxicity:                    | LD <sub>50</sub> (oral: Rat) > 20,000mg/kg   |
| Acute dermal irritation:           | Negative   |
| Acute eye irritation:              | Negative   |
| Dermal Sensitisation – Guinea Pig: | Negative   |
| Mutagenicity (Ames test):          | Negative for In-vitro <i>Salmonella typhimurium</i> mutagenic studies  |
| Cytogenicity:                      | At 500ppm available chlorine, no Cytogenetic activity on mice bone marrow chromosomes was induced.                                 |
| Carcinogenicity:                   | No conclusion on the carcinogenicity of chlorine can be made from the limited information available from human and animal studies. |
| Inhalation:                        | Not available  |
| Occupational exposure limits:      | None   |
| Health hazards:                    | There are no known health hazards.   |

## SECTION 12. ECOLOGICAL INFORMATION

|                     |   |
|---------------------|---|
| Environmental data: | Presents no hazard to the environment   |
| Degradability:      | Neutral Anolyte degrades to source water quality with a low sodium chloride mineralisation allied to the input concentration of the salt. |
| Hazards:            | Neutral Anolyte generated at pH=7, is non-hazardous to human and animal tissue.   |

## SECTION 13. DISPOSAL CONSIDERATIONS

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|-----------------|--|
| Waste disposal: | Where permitted, Neutral Anolyte can be disposed of in municipal drains without adverse effects. However, where required, local environmental regulatory requirements should be followed. The oxidant activity of Anolyte can be neutralised with surplus organic matter/soiling - Dilute to waste with plenty of water. |
|-----------------|--|

## SECTION 14. TRANSPORT INFORMATION

Packaging in black plastic containers, and no specific transport requirements are necessary.

## SECTION 15. REGULATORY INFORMATION

Regulations specific to the product. Refer to sections 1, 2, 3 & 4.

## SECTION 16. OTHER INFORMATION

### FOR FURTHER INFORMATION REFER TO RADICAL WATERS.

DISCLAIMER: This information is based on our current knowledge and is intended to describe the product for the purposes of health and safety requirements only. It should not, therefore, in itself be construed as a guarantee of any specific quality relating to the product, which will depend on the terms of the contract of trial or sale. The user must satisfy himself/herself that the product is suitable for his/her purpose.

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|----------------|----------------------------|
| DATE PREPARED: | April 2005                 |
| DATE REVISED:  | February 2007 – revision 1 |
| DATE REVISED:  | December 2008 – revision 2 |
| DATE REVISED:  | April 2012 – revision 3    |
| DATE REVISED:  | MAY 2013 – revision 4      |
| DATE REVISED:  | October 2018 – revision 5  |