

MATERIAL SAFETY DATA SHEET

Section 1: Product and Company Identification	1.1 Product Identifier	Technical Name	ECOLYTE-Neutral, Anolyte or Anolyte-Neutral. Aka: HOCl water, neutral electrolysed water		
	1.2 Relevant Identified Uses of the Substance / Mixture; and Uses Advised Against	Trade Name	Eco-Lyte (NTL)		
		Recommended Uses	Disinfectant and Sanitizer		
			Applied to surfaces and water		
			Contact supplier and/or always read the label and product information before use		
	1.3 Details of the Supplier of the Safety Data Sheet	Manufacturer	ECA Technologies Africa (Pty) Ltd 25 Putney Rd, Kenilworth, 7435, Cape Town		
Tel		+27 (0)21 300 0434			
Email		info@ecatech.co.za			
Section 2: Hazards Identification	<p>CLP-classification (Regulation (EC) No 1272/2008) and FDA (GRAS) 21 CFR Part 178 and US EPA: 40 CFR 180.940</p> <p>The product shall not be classified as hazardous according to EU / FDA, OSHA & US EPA classification and labelling rules</p> <p>None of the ingredients are classified as hazardous in the amounts present in the product. Under normal conditions use the likelihood of any adverse health effects is minimal</p>				
Section 3: Composition and Information on the Ingredients	Eco-Lyte (NTL) contains active Oxy-Chlor compounds such as HOCl in the range of 0,03% - 0,05% at production, generated from sodium chloride by means of electrolysis. The solution contains no compounds as per the regulations for toxic compounds (67/548/EWG)				
	Synonyms	Disinfectant, Sanitiser, Biocide, Anolyte			
	Chemical Nature of the Product	Weak acid			
	Main Ingredients	CAS-No	EINICS-No	Wt/vol %	Symbols
	Sodium Chloride	7647-14-5	231-598-3	~0.26%	NaCl
	Hypochlorous Acid	7790-92-3	232-232-5	0.03% To 0.05%	HOCl
	Water	7732-18-5	231-791-2	To balance ~99.69%	H2O

Section 4: First Aid Measures	4.1 Description of First Aid Measures	Eye Contact	None required. If discomfort develops, flush with plenty of water. Obtain medical attention, if irritation develops
		Skin Contact	None required. If irritation develops, flush with plenty of water and obtain medical attention
		Ingestion	Drink two glasses of fresh water and obtain medical attention, if feeling unwell
		Inhalation	If discomfort develops, remove from further exposure. Obtain medical attention if any effects occur
	4.2 Most Important Symptoms and Effects, both Acute and Delayed	The vapours of concentrated product after opening agitated packaging may cause slight irritation to the eyes & nose	
	4.3 Indication of any Immediate Medical Attention and Special Treatment Needed	No special immediate treatment required, treat symptoms if detected	
Section 5 Fire Fighting Measures	There are no special requirements for Eco-Lyte (NTL), product is not flammable		
Section 6 Accidental Release Measures	6.1 Personal Precautions	None	
	6.2 Environmental Precautions	The solution is biodegradable and has a limited activation period so there are no potential risks to the environment	
	6.3 Methods and Material for Containment and Cleaning Up	Wipe up with disposable towels, there are no special disposal instructions	
	6.4 Reference to Other Sections	See section 8 for type of protective equipment. See section 13 for instructions on disposal	
Section 7 Handling and Storage	7.1 Precautions for Safe Handling	None	
	7.2 Conditions for Safe Storage including any Incompatibilities	Store in a cool area away from UV or direct sunlight. Keep container tightly closed when not in use	
	7.3 Specific End Use (s)	None	
Section 8 Exposure Control/ Personal Protection	8.1 Control Parameters	Contains no substances subject to reporting requirements	
	8.2 Exposure Controls	Personal Protection	Maintain general industrial hygiene practices when using this product
		Respiratory Protection	Adequate ventilation. Personal respiratory protection is not required. Do not breathe vapour directly from storage vessel
		Eye Protection	Not required for normal use. Use safety glasses, if desired
		Skin Protection	Not required for normal use. For highly sensitive user wear latex or vinyl gloves if desired

Section 9 Chemical and Physical Properties	Physical State	Liquid					
	Colour and Appearance	Clear, transparent liquid (like water)					
	Odour	Slight chlorine / ozone like odour					
	Solubility in Water	Completely soluble					
	pH-Values	5 To 7, 5					
	Melting-point	0 °C.					
	Boiling-point	100°C.					
	Fire-focus	N/A					
	Flammability	None. Upper / lower flammability limits: No data					
	Explosive	N/A					
	Upper / Lower Explosive Limits	No data					
	Density	App. 1,000 kg.m3					
	Steam-pressure	App. 2,330 Pa					
	Relative Density	1					
Section 10 Stability and Reactivity	10.1 Reactivity	Not reactive					
	10.2 Chemical Stability	Yes. Acceptable losses of active ingredients at high temperatures, atmospheric exposure and/or direct UV light. Product label contains shelf life information					
	10.2 Possibility of Hazardous Reactions	None known					
	10.4 Conditions to Avoid	Heat, UV light, acidification					
	10.5 Incompatible Materials	Avoid contact with acids, heavy metals, reducing agents & ammonia					
	10.6 Hazardous Decomposition Products	Elemental chlorine as a result of reaction with acids					
Section 11 Toxicological Information	Route of Entry	Skin contact	X	Eye contact	X	Inhalation chronic	X
		Skin absorption	X	Inhalation acute	X	Ingestion	X
	Effects and Symptoms of Short-term Exposure	No reported adverse effects					
	Chronic Effects and Symptoms of Long-term Exposure	No reported adverse effects. Has not been found to be a carcinogen nor produce genetic, reproductive or development effects					
	Sensitisation	Generally non-sensitising					
	Irritancy of Product	Generally non irritating					
	Acute Toxicity	LD50 (oral: Rat) > 20,000mg/kg					
Section 12 Environmental Information	12.1 Eco Toxicity	The product does not have to be classified. Destroys bacteria, spores, viruses, mold & algae					
	12.2 Persistence and Degradability	Fully biodegradable to original components of NaCl and H2O					
	12.3 Bio Accumulative Potential	None					
	12.4 Mobility in Soil	None					
	12.5 Results of PBT and VPVB Assessment	The product does not contain any PBT or VPVB substances					
	12.6 Other Adverse Effects	None known					

Section 13 Disposal Procedures	There are no special disposal procedures		
Section 14: Transport Procedures	The product is not covered by the rules for transport of dangerous goods		
	14.1 UN Number		N/A
	14.2 UN Proper Shipping Name		N/A
	14.3 Transport Hazard Class(ES)		N/A
	14.4 Packing Group		N/A
	14.5 Environmental Hazards		N/A
	14.6 Special Precautions for User		N/A
14.7 Transport in Bulk according to Annex II Of MARPOL73/78 and the IBC Code		N/A	
Section 15 International Regulatory Information	15.1 Safety, Health, and Environmental Regulations/Legislation Specific for the Substance or Mixture Special Provisions		None
	Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products, approved PT1-5. Tested to EN standards BSEN 1276, BSEN 1656, BSEN 13704, BSEN 14204, BSEN 13697		
	FDA 21 CFR Part 178 Sub Part B 178.010 of the Federal Register	Hypochlorous Acid does not need to be classified	
	USDAO CFR 7 Part 205	Hypochlorous Acid is included in the National Organics Program for Crops / Livestock / Handling	
	FDA FSIS	Approved Sterilizer & Sanitizer for use on slaughtered poultry / cattle and swine	
	FDA GRAS Product	Generally Regarded As Safe and approved for use on raw fruit & vegetables during washing & peeling	
	US EPA 40 CFR 180.940	Approved Anti-microbial formulation food contact surface sanitizer / Food contact surfaces in public eating areas / Dairy / Processing equipment / Food processing equipment & utensils	
	Korea FDA	Approved as sanitizer and disinfectant	
	South Africa	NRCS Act 5 GNR529/245793/072/0438, SABS 1827, 1828, 1853	
Section 16 Other Information	Abbreviation Explanations	PBT	Persistent, Bio accumulative and Toxic
		vPvB	Very Persistent and Very Bio accumulative
		STOT	Specific Target Organ Toxicity
	Classification Method	Calculation based on the hazards of the known components	
	H-Phrases	No H-phrases	
	Training	A thorough knowledge of this safety data sheet should be a prerequisite condition.	

The Information Contained In This Document Is Based On Data Considered To Be Accurate At The time of publication and is given free of charge. It is representative of typical product, but batches may exhibit minor variations. In case of doubt or for clarification the distributor or manufacturer should be consulted. ECA Technologies is unable to anticipate all conditions under which the product may be used, and users are advised to carry out an assessment of workplace risk and carry out their own tests to determine safety and suitability for the process and conditions of use.

Other information: this safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and information provided by authorities, scientific literature & test data.