



Safety Data sheet

Revision: 22-04-2020
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Version: 3.2 / RSA

Section 1: Product and company identification

1.1. Product identifier

Technical name: ECOLYTE-Neutral, Anolyte or Anolyte – Neutral. AKA; HoCl Water, Neutral Electrolysed Water

Trade name: ECO-LYTE (NTL)

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended uses: Disinfectant and Sanitizer.
Applied to surfaces & water
Contact supplier and or always read the label and product information before use.
This Safety Data Sheet contains general information concerning the chemistry, but specific instructions and guidelines are indicated on the product label or with consultation of the supplier.

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: 021 3000 434
Email: info@ecatech.co.za

Section 2: Hazards identification

CLP-classification (Regulation (EC) No 1272/2008) and FDA (GRAS) 21 CFR Part 178 and US EPA: 40 CFR 180.940

The product shall **not** be classified as hazardous according to EU / FDA, OSHA & US EPA classification and labelling rules.

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.

Section 3: Composition and information on the ingredients

ECOLYTE – 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%	H ₂ O

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 2 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 vapors 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 ECOLYTE – 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 breath vapor 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 odor
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
10.3. 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 results of reaction with acids

Section 11: Toxicological Information

Route of entry

Skin Contact	Skin Absorption	Eye Contact	Inhalation Acute	Inhalation Chronic	Ingestion
x	x	x	x	x	x

Effects & Symptoms of short-term exposure

No reported adverse effects

Chronic Effects & 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 viruses, mold & algae

The product does not have to be classified. Destroys bacteria, spores,

12.2 Persistence and degradability

Fully biodegradable to original components of NaCl & 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

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.

15.1. Safety, health, and environmental regulations/legislation specific for the substance or mixture Special provisions:

None.

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.**

