



STERALL

MULTIPURPOSE DISINFECTANT

PRODUCT & COMPANY IDENTIFICATION



1.1. Product Identifier

Technical Name: STERALL, powered by ECA Technologies. AKA; HoCl Water, Neutral Electrolysed Water

Trade Name: STERALL, powered by ECA technologies

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

Disinfectant and Sanitizer.

Applied to surfaces and 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 Material Safety Data Sheet:

Manufacturer: ECA TECHNOLOGIES AFRICA (PTY) LTD

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



Sterall 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, Sanitizer, 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 STERALL, 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: Wipe up with disposable towels, there are no special disposal instructions containment and cleaning up
- 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. Precaution 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: HANDLING AND STORAGE



- 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 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 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 result 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: ENVIROMENTAL 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 & 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



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.

