

SDS - Safety Data Sheet

ECA generated Alkaline Catholyte (Aqueous format)

CAS 1310-73-2 Concentration: <500 ppm

Purpose: An Alkaline Cleaner/Degreaser Solution. Sanera Catholyte is an Industrial Grade surfactant that is highly effective as a detergent and a cleaning agent. With a pH between 10 and 13 it is effective as a cleaning and degreasing agent. Sanera Catholyte will strip and clean hard surfaces of scale, hydrocarbon deposits, and bacterial films.
Prepared by means of diaphragmatic electrolysis from aqueous 1 ~ 3 % sodium chloride (table salt) solution.

Section 1: Product and company identification

Technical Name: **ECA Generated Alkaline Catholyte**
or Alkaline Catholyte

Trade Name:

Catholyte C-12



NON TOXIC - ALL NATURAL

Date Prepared: **October 1, 2023**

WHMIS Classification: This product is not controlled under the WHMIS Controlled Products Regulations (CPR)

Manufacturer/Supplier:

Sanera Canada Unit 3 - 23 Seapark Drive, St. Catharines, Ontario
L2M 6S5
Tel: 289-273-9283
e-mail: sales@saneracanada.com



Section 2: Composition and information on the ingredients

ECA Generated Alkaline Catholyte or Alkaline Catholyte is a preparation of Potable Water and Food Grade Sodium Chloride (NaCl).

The solution contains no compounds as per the regulations for toxic compounds.

Active substances	CAS-No	EINICS-No	Wt/vol %	Symbols
Sodium Chloride	7647-15-5	231-598-3	0.025%	NaCl
Water		231-791-2	99.75%	H ₂ O

After Activation:
Sodium Hydroxide 1310-73-2 < 1% < 10,000 ppm NaOH

Section 3: Hazards identification

The solution is classified as non-dangerous under normal conditions of use.

Main Hazards:

ECA generated Alkaline Catholyte in its strongest wet solution form may cause non harmful mild irritation to the eyes, sensitive skin and throat. Where the solution is stored in bottles one should not try to smell or inhale the evaporations.

Health effects Eyes:

ECA generated Alkaline Catholyte in its strongest wet solution form may cause non harmful mild

irritation to the eyes.

Health effects Skin:

ECA generated Alkaline Catholyte in its strongest wet solution form may cause non harmful slight irritation to sensitive skin or open wounds.

Health effects Ingestion:

Swallowing of the solution in its strongest form may cause non harmful mild irritation to the throat and digestive tract.

Health effects Inhalation:

During generation of **ECA generated Alkaline Catholyte**, particularly its strong wet solution form, unless there is adequate ventilation there may be a buildup of fumes which may cause slight or very mild dizziness and nausea.

Section 4: First aid Measures

Eye contact:

Only and if irritation occurs flush with cool fresh water

Skin Contact:

Only and if irritation occurs wash the skin wash with soap and warm water

Ingestion:

Drink cool fresh water to flush through and dilute

Inhalation:

Remove at once to fresh air if dizziness and nausea persist seek medical attention

Section 5: Fire Fighting Measures

There are no special requirements for **bottled aqueous** ECA generated Alkaline Catholyte. It is not flammable.

On-Site Production of ECA generated Alkaline Catholyte will produce small amounts of Hydrogen gas. Refer to the On-Site Generation of Alkaline Catholyte Safety Data Sheets by Radical Waters.

Section 6: Accidental Release Measures

Personal precautions:

None.

Environmental precautions:

The solution is biodegradable and has a limited activation period so there are no potential risks to the environment.

Spillage:

Wipe up with disposable towels. There are no special disposal instructions.

Section 7: Handling and Storage

Handling:

In the area where the solution is being produced there must be good ventilation. Preferably local exhaust ventilation. For those with very sensitive skin it may be advisable to wear gloves.

Storage:

Store in a cool dry ventilated area in sealed plastic containers and ensure the solution is correctly labeled

Section 8: Personal Protection and Exposure Control

Engineering control procedures:

Where the solution is being generated on site some engineering solutions should be implemented to prevent the buildup of fumes particularly where production facility has inadequate ventilation.

Mechanical fume extraction may be advised in this situation.

Documented process, safety controls and personnel protection where necessary, gloves, mask etc.

Respiratory Protection:

Where there is a high risk to sensitive skin the strong alkaline solution may cause irritation and therefore protective gloves should be worn.

Hand protection:

Eye and facial protection: There are no requirements. Recommend splash goggles be worn when using the product

Body protection:

Normal industrial work wears to avoid exposed skin when handling undiluted strong solution.

Section 9: Chemical and Physical Properties

Physical state:	Liquid
Color and Appearance:	Clear, transparent liquid (like water)
Odour:	Mild Saline odour depending on strength of the solution
Solubility in water:	Completely soluble
pH-values:	10.0 -12.0 +/- 1.0
Melting-point:	0°C.
Boiling-point:	100°C.
Fire-focus:	N/A
Flammability:	None
Oxidation Reduction Potential:	ORP = -750 +/- 150 mV
Density:	app. 1,000 kg.m ³
Steam-pressure:	app. 2,330 Pa

Section 10: Stability and Reactivity

Stability:

Stable under all normal storage conditions. Alkaline Catholyte retains its optimal OORP for a period of up to 12 hours, whereafter it will progressively degrade to the ORP of the source water.

Materials to avoid:

The solution as a dilute aqueous solution is reactive with concentrated acid solutions as per standard chemical practices.

Corrosion Potential: Stainless steel grades 304 $\leq 10^3$mm/annum, 316 $\leq 10^3$ mm per annum, 3CR12 $\leq 10^3$ mm per annum, mild steel = 0.35mm per annum, Galvanized steel = 0.24 mm per annum.

Hazardous decomposition products:

None

Section 11: Toxicological Information

Acute toxicity:

Not toxic

Irritant-Eyes:

Although none has been reported data for related material suggests this could produce non harmful mild conjunctivitis eye irritation on direct wet solution contact with eyes. **Important to Note** that no conjunctivitis eye irritation has ever been noted and or recorded as a result of **ECA generated Alkaline Catholyte** solution which has been dried from a previously application surface and transferred to the eye by touch or by air movement

Irritant-Skin:

Although none has been reported data for related material suggests this may cause mild skin irritation on direct wet solution contact with skin. **Important to Note** that no skin irritation has ever been noted and or recorded as a result of **ECA generated Alkaline Catholyte** solution which has been dried from a previously application surface and transferred to the skin by touch or by air movement

Reproductive and developmental:

None known

Skin contact:

The possibility of should be considered

Chronic toxicity/Carcinogens:

None

Human Data:

Although none has been reported data for related material Inhalation may cause non harmful slight respiratory irritation

Section 12: Environmental Information**Eco toxicity:**

Destroys bacteria, viruses, spores and algae

Degradability and Persistence:

Fully Biodegradable

Bio-accumulation: None

Mobility: None

Section 13: Disposal Procedures

There are no special disposal procedures.

Section 14: Transport procedures

Not classified as hazardous for transport

Section 15: Regulatory Information

TSCA No.: All active ingredients in this product are listed on the EPA TSCA Inventory List
CERCLA/SARA: This product has been reviewed according to the EPA "Hazard Categories" under Section 311 and 312 of SARA. It does not fall into any listed category and poses no risk of immediate Acute) health hazard, delayed (chronic) health hazard, or sudden release of pressure and is not reactive (29CFR 1910.1200)

OSHA Hazard Communication Standard: This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200

WHMIS Classification: This product is not controlled under the WHMIS Controlled Products Regulations (CPR)

Section 16: Other Information

ECA generated Alkaline Catholyte is not a chemical but is a solution made from all natural ingredients which are non-toxic and non-hazardous therefore not subject to WHMIS Controlled Products Regulations.

ECA generated Alkaline Catholyte is made by passing an electric current through a solution of water and a small amount of salt (approx. 0.02~ 0.03 %) in a process known as electrolysis. **ECA generated Alkaline Catholyte** is composed of NaOH generated in the water electrochemically. The active ingredient is an approved substance by EPA, FDA and Health Canada for application to hard non-porous surfaces. The information presented within this Safety Data Sheet was written based upon our general knowledge and it is intended to describe the product for the purpose of health and safety requirements only.

Personal Protection	A - Splash Goggles
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NFPA Rating	
NFPA health hazard	0 - None
NFPA fire hazard	0 - None
NFPA reactivity	0 - Normally stable
NFPA Specific Hazard	0 - None

HMIS Rating	
Health	0 - None
Flammability	0 - None
Physical	0 - None



For Contact information call 289-273-9283 or visit the website www.saneracanada.com

Data provided in this safety data sheet has to be accessible to everyone whose work is connected with the chemical material, preparation. Data correspondence is our possessed knowledge and is meant to describe chemical material, aspects of occupational safety and health, environment protection.

Information of safety data sheet will be replenished when new data on effects of chemical material, preparation on health and environment, on preventive measures to reduce hazards or totally avoid them originates.

The information and recommendations contained herein are to the best of Sanera Canada knowledge and belief, accurate and reliable as of the date issued. Sanera Canada does not warrant or guarantee their accuracy or reliability, and Sanera Canada shall not be liable for any loss or damage arising out of the use thereof. The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for their particular use and application.

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