

MATERIAL SAFETY DATA SHEET (MSDS)

Section 1 Product and company identification

Product: Neutral Electrolyzed Water

Trade name: *NEWater*® Anolyte

Company: *NatureTech Solutions, Inc.*

2440 Butter Rd. Lancaster, PA 17601

717-394-2275

Section 2 Composition and information about ingredients

Ingredient	CAS-No	EINICS-No	Wt./Vol. %	Symbols
Sodium chloride	7647-14-5	231-598-3	0.260%	NaCl
Hypochlorous Acid	7790-92-3	323-323-5	0.045%	HOCL
Sodium Hypochlorite	7681-52-9	231-668-3	0.005%	NaOCL ⁻
Water	7732-18-5	231-791-2	99.690%	H ₂ O

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

Section 3 Hazards identification

Main Hazards:

NEWater® Anolyte in the strongest form (FAC ~500ppm) may cause slight irritation to the eyes, sensitive skin and throat. When the solution is stored in bottles, one should not try to smell or inhale the vapors once opened.

Health affects Eyes:

NEWater® Anolyte in the strongest form may cause slight irritation to eyes.

Health effects Skin:

NEWater® Anolyte in the strongest form may cause slight irritation to sensitive skin or open wounds.

Health effects ingestion:

Swallowing of the solution in its strongest form may cause slight irritation to a throat and digestive tract.

Health effects inhalation:

During generation of the solutions, particularly in its strongest form, unless there is adequate ventilation, there may be a build up of fumes.

Section 4 First aid measures

Eye contact:

Where irritation occurs, flush with cool fresh water

Skin Contact:

Where irritation occurs wash the skin with soap and water

Ingestion:

Drink cool fresh water to flush through and dilute

Inhalation:

Move to fresh air. If dizziness or nausea persists seek medical attention

Section 5 Fire- fighting measures

There are no special requirements for this solution. Not flammable

Section 6 Accidental release measures

Personal precautions:

Do not touch or breathe

Environmental precautions:

The solution is biodegradable and has a limited activation period.

Spillage:

Wipe up with disposable towels. NO special disposal instructions.

Section 7 Handling and Storage**Handling:**

There should be good ventilation in the area where the solution is produced. Preferably local exhaust ventilation. For those with very sensitive skin it may be advisable to wear gloves.

Storage:

Liquid must not be stored. Point of use only.

Section 8 Personal protection and exposure control**Engineering control procedures:**

Where **NEWater**® Anolyte is generated on site, some engineering solutions should be implemented to prevent the build up of fumes particularly if the production facility has inadequate ventilation. Mechanical fume extraction may be advised in this situation. Documented process, safety control and personnel protection where necessary: gloves masks etc.

Respiratory Protection:

Where there is a high risk of fumes building up due to inadequate ventilation in a processing area, a respirator should be worn.

Hand protection:

Where service personnel have sensitive skin the strongest solutions may cause irritation and therefore protective gloves should be worn.

Eye and facial protection:

There are no requirements

Body Protection:

Wear normal industrial works to avoid exposed skin when handling near strong liquids

Section 9 Chemical and Physical Properties

Physical state:	Liquid
Color and Appearance:	Clear, transparent liquid (like water)
Odor:	Slight chlorine smell varying with the strength of the solution
Solubility in water:	Completely soluble
PH-values:	7,0 ± 0.5
Freezing point:	0°C. 32 F
Boiling point:	100°C. 212 F
Fire-focus:	N/A
Flammability	None
Explosive:	N/A
Density:	approximately 1,000 kg.m ³
Steam-Pressure:	approximately 2,330 Pa

Section 10 Stability and Reactivity**Stability:**

Stable under all normal storage conditions

Materials to avoid:

The solution does not react with other materials

Hazardous decomposition products:

None

Section 11 Toxicological information**Acute toxicity:**

Non-toxic

Irritant-Eyes:

Data for related material suggests this could produce conjunctivitis irritation

Irritant-Skin:

Data for related material suggests this may cause skin irritation

Reproductive and developmental:

None known

Skin contact:

The possibility of allergic sensitization should be considered

Chronic toxicity/Carcinogens:

None

Human Data:

Inhalation may cause respiratory irritation

Section 12 Environmental information**Eco toxicity:**

Destroys bacteria, spores, viruses and algae. Solutions are non-toxic to environment or humans.

Degradability and Persistence:

Fully biodegradable.

Bioaccumulation:

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

Not listed

Section 16 Other Information

The biocidal liquid (**NEWater**®) Analyte generated solely consists of two active substances: HOCL and OCL

Section 17 Hazard Rating

Health 0, Fire 0, Reactivity 0

0—Minimum, 1—Slight, 3—Serious, 4—Extreme

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