



Safety Data Sheet:

Enviolyte – Catholyte

Section 1: Product and company identification

Trade name: Enviolyte – Catholyte

Manufacturer:

Enviolyte Industries International Ltd. Ravala str. 8 -C603, 10143 Tallinn, Estonia
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UK Distributor:

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19 Brookway,
Prenton,
Merseyside,
CH43 3DS

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Email: john@enviolyte.co.uk

Section 2: Composition and information on the ingredients Composition:

<u>Ingredient</u>	<u>CAS – Number</u>	<u>Volume %</u>	<u>Symbols</u>
Water	CAS No 7732-18-5	99.75%	H2O
Sodium Chloride	CAS No 7647-14-5	0.2%	NaCl

After activation:

Sodium Hydroxide	CAS No 1310-73-2	0.05%	NaOH
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The solution contains no compounds as per the regulations for toxic compounds (67/548/EWG)

Section 3: Hazards identification

The solution is classified as non-dangerous accordingly (88/279/EWG)

Main Hazards:

Catholyte in its strongest form may cause slight irritation of throat.

Health effects Eyes:

Catholyte in its strongest form may cause slight irritation to the eyes.

Health effects Skin:

Catholyte in its strongest form may cause irritation to the skin or open wounds.

Health effects Ingestion:

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



Health effects Inhalation:

During generation of the solution, particularly its strong form, unless there is adequate ventilation, there may be a build-up of fumes which may cause dizziness and nausea.

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 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 Catholyte. It is not flammable.

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 labelled. Shelf life is up to 12 months.

Section 8: Personal Protection and Exposure

Control Engineering control procedures:

Where the Catholyte is being generated on site, some engineering solutions should be implemented to prevent the build-up of fumes, particularly where the production facility has inadequate ventilation. Mechanical ventilation extraction would be advised for this situation.

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

Respiratory Protection:

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



Hand protection:

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

Eye and facial protection: There are no requirements.

Body protection:

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

Section 9: Chemical and Physical Properties

Physical state: Liquid

Colour and Appearance: Clear, transparent liquid (like water)

Odour: Slight Chlorine smell varying with the strength of the solution

Solubility in water: Completely soluble

PH-values: 10 - 13 **Melting-point:**

0°C.

Boiling-point: 100°C.

Fire-focus: N/A

Flammability: None

Explosive: N/A

Density: app. 1,000 kg.m³

Steam-pressure: app. 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: Not 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 sensitisation should be considered.

Chronic toxicity/Carcinogens: None

Human Data:

Inhalation may cause respiratory irritation.



Section 12: Environmental Information

Eco toxicity: None.

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

Not listed

Section 16: Other Information

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.

NO warranty is expressed or implied concerning the accuracy of this data.

In case of doubt or for clarification Envirolyte should be consulted.

Envirolyte is unable to anticipate all conditions under which the product may be used, and users are advised to carry out an assessment of any workplace risks and carry out their own tests to determine Safety and Suitability for the process and the conditions of use.