

## MATERIAL SAFETY DATA SHEET

Version 3.1 EN  
Revised 2017-09-01

**PRODUCT:** Catholyte

**SPECIAL INFORMATION:** The product is electrochemically generated online by *Anolytech Disinfection System™ Products*.

**Company information:** Anolytech Norden AB, P.O. Box 2019, SE-27102 Ystad, Sweden Phone: +46 411 24 30 30 E-mail: [info@anolytech.se](mailto:info@anolytech.se)

**Emergency call:** Out of office time, call 112

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### 1. PRODUCT IDENTITY

Chemical Name of Product: Sodium hydroxide, dilute solution in water

Common name: Catholyte

Product Type: Weak alkaline disinfectant in water

Ingredients used	CAS-No.	EINECS-No	Weight / Volume %
Water	7732-18-5	231-791-2	99.5
Sodium chloride	7647-15-5	231-598-3	0.5

#### After electrochemical activation

	CAS-No.	EINECS-No	Concentration (g/L, mol/L)
Sodium hydroxide	1310-72-2	215-185-5	0.76 / 0,02

Safety instructions in this document relate to non-diluted solution taken directly from the system, it contains 0,08% of sodium hydroxide.

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### 2. HAZARD IDENTIFICATION

Statement: The solution is not classified as dangerous

Identification: None

Danger Symbol: None

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### 3. COMPOSITION

This product is a preparation based on salt for drinking water softener, typically made of very pure refined vacuum salt, free from any harmful soluble or insoluble contaminants. Aqueous solution that also contains brine (sodium chloride).

## 4. FIRST AID MEASURES

Skin contact	Remove contaminated clothing including shoes immediately and wash affected skin with water (>10 min, 20-30 °C). Seek medical attention if irritation develops and persists.
Eye contact	Immediately flush eyes with water (>10 min, 20-30 °C). Seek medical advice if irritation persists.
Ingestion	Do not induce vomiting: give plenty of water to drink. Seek medical assistance if ill effects occur.
Inhalation	-

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## 5. FIRE-FIGHTING MEASURES

Extinguishing media suitable	Chemical type foam, Powder, Sand, water spray
Hazardous combustion products	Harmful fumes may be formed
Hazards and methods	General hazard – evacuate personnel downwind of fire to avoid inhalation of irritating and/or harmful fumes or smoke.
Protection of fire fighters:	
Flammability	Not flammable
Special fire-fighting procedures	Use breath protection

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## 6. ACCIDENTAL RELEASE MEASURES

Leaks and spills can be removed in accordance with methods employed for ordinary water.  
Wash to waste with plenty of water.

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## 7. HANDLING AND STORAGE

Handling concentrated product	Do not store or handle together with strong acids, such as hydrochloric acid or sulfuric acid.
Handling or applying diluted product	No special precautions necessary
Storage	Avoid containers made of aluminium, zinc and tin.
Other precautions	Keep out of reach of uninformed persons, children and animals.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear safety glasses and protective gloves (nitrile rubber 0.1 mm) when handling the product. Avoid prolonged contact with the skin. Use good personal hygiene practices.

Breath protection is required in case of an aerosol is formed. Recommended filter P2 acc DIN 3181.

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## 9. PHYSICAL & CHEMICAL PROPERTIES

Physical stat	Liquid
Chemical	pH = 12 ± 0.5
Appearance	Homogeneous clear liquid
Colour	Colourless
Solubility	Completely in water
Odour	None
Boiling point	100 °C

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## 10. STABILITY AND REACTIVITY

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Stability	Stable. When in contact with ambient air carbon dioxide the activity decreases due to formation of sodium carbonate.
Incompatibility (material to avoid)	Avoid mixing with concentrated acids.
Hazardous decomposition	None

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## 11. TOXICOLOGICAL INFORMATION

Acute toxicity	None
Acute dermal irritation	Weak irritation
Acute eye irritation	Weak irritation
Dermal Sensitisation – Guinea Pig	No data
Mutagenicity (Ames test)	No data
Cytogenicity	No data
Carcinogenicity	No data
Inhalation	Not applicable

Occupational exposure limits	< 2 mg/m <sup>3</sup> (as solid dust, max allowed)
Health hazards	There are no known health hazards.

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## 12. ECOLOGICAL INFORMATION

Environmental data	No identified hazard to the environment.
Degradability	The product degrades to source water quality with a low sodium chloride mineralisation allied to the input concentration of the salt.
Hazards	No data

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## 13. DISPOSAL CONSIDERATIONS

Where permitted, the product can be disposed of in municipal drains without adverse effects. However, where required, local environmental regulatory requirements should be followed. Dilute to waste with plenty of water.

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## 14. TRANSPORT INFORMATION

Packaging in black plastic containers. No specific transport requirements.

(For concentrated solutions of hypochlorous acid special transportation regulations apply.)

## 15. REGULATORY INFORMATION

This document has been established in accordance with 1907/2006/EC, 453/2010/EC and 1272/2008/EC.

## 16. OTHER INFORMATION

**FOR FURTHER INFORMATION REFER TO ANOLYTECH AB's COMPANY WEBSITE OR PERSONAL SUPPORT**

**DISCLAIMER:** This information is based on our current knowledge and is intended to describe the product for the purposes of health and safety requirements only. It should not, therefore, in itself be construed as a guarantee of any specific quality relating to the product, which will depend on the terms of the contract of trial or sale. The user must satisfy himself/herself that the product is suitable for his/her purpose.

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