



Envirocleanse LLC
12621 W. Airport Ste 200
Sugar Land, TX 77478
www.eco-enviro.com

Material safety data sheet: Catholyte (Envirocleanse C)

Section 1: Product and company identification

Trade name: **Catholyte**

Manufacturer/Supplier:

Envirocleanse LLC
12621 W. Airport Ste 200
Sugar Land, TX 77478
(713) 252-6219

Section 2: Composition and information on the ingredients

K-catholyte contains hydroxyls and hydroxyl radicals such as NaOH, H₂O₂, HO⁻. The solution contains no compounds as per the regulations for toxic compounds.

Section 3: Hazards identification

The solution is classified as non dangerous.

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 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 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 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

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

<u>Physical state:</u>	Liquid	<u>CAS</u>
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<u>#:</u>	1310-73-2
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<u>Colour and Appearance:</u>	Clear, transparent liquid (like water)
<u>Odour:</u>	Slight Chlorine smell varying with the strength of the solution
<u>Solubility in water:</u>	Completely soluble
<u>PH-values:</u>	10 – 13
<u>Melting-point:</u>	0°C.
<u>Boiling-point:</u>	100°C.
<u>Fire-focus:</u>	N/A
<u>Flammability:</u>	None
<u>Explosive:</u>	N/A
<u>Density:</u>	app. 1,000 kg.m ³
<u>Steam-pressure:</u>	app. 2,330 Pa

Section 10: Stability and Reactivity

Stability:

Stable under all normal storage conditions.

Materials to avoid:

Non corrosive on metals (relates to very low active concentration NaOH, less than 0.07%)

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 Envirocleanse LLC should be consulted. Envirocleanse LLC 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.

Prepared August 2011 by Envirocleanse LLC