**Material safety data sheet**

**ANK-Neutral Anolyte (91/155/EWG)**

**Section 1: Product and company identification Trade name: ANK-Neutral Anolyte Manufacturer/Supplier: Envira O3 AB**

**Supplier**: **Kemikonsult Norr AB**

 Viktoriaesplanaden 8B

 892 39 Örnsköldsvik

**Section 2: Composition and information on the ingredients**

ANK-Neutral Anolyte contains active chlorine compounds such as HOCl and CLO- (C.ac in mg/l) in the range of 0,001-0, 09%. The average/standard amount of active chlorine is ~0, 05%. 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:
ANK-Neutral Anolyte in its strongest form (C.ac >600mg/l) may cause irritation to the eyes, sensitive skin and throat. Where the solution is stored in bottles one should try to smell or inhale the evaporations.
Health effects Eyes:
ANK- Neutral Anolyte in its strongest form may cause irritation to the eyes.
Health effects Skin:
ANK - Neutral Anolyte in its 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 irritation to the throat and digestive tract.
Health effects Inhalation:
During generation of ANK-Neutral Anolyte, 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 ANK-Neutral Anolyte .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

**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 build up of fumes particularly where productions 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 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:**Colour and Appearance: Odour:
Solubility in water: PH-values: Melting-point: Boiling-point:

**Liquid**Clear, transparent
Chlorine odour dependeing on strength of solution  Completely soluble
7,5-8,5
0 degrees celcius
100 degrees celcius

**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:**

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**

Not listed

**Section 16: Other Information**

The information in this document meets the European requirements for safety and health measurements. (91/155/EWG)

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