SAFETY DATA SHEET

In accordance with 1907/2006 annex II 2015/830 and 1272/2008 (All references to EU regulations and directives are abbreviated into only the numeric term) Revision date 2020-05-05 Replaces issued SDS 2020-04-08 Version number 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade nameAnolyt-pH(after electrochemical activation)

1.2. Relevant identified uses of the substance or mixture and uses advised against Identified uses Disinfectants

1.3. Details of the supplier of the safety data sheet

| | * * | ÷ | |
|-----------|-----|---|-------------------------|
| Company | | | Anolytech Norden AB |
| | | | Östra Balkåkravägen 317 |
| | | | 271 93 Ystad |
| | | | Sweden |
| Telephone | | | 0411-243030 |
| E-mail | | | stefan@anolytech.se |
| | | | |

1.4. Emergency telephone number

Acute cases: Call 112, request poison information.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Upon assessment, this mixture is not classified as hazardous according to 1272/2008

2.2. Label elements

| Hazard pictogram | Not applicable |
|------------------|----------------|
| Signal word | Not applicable |
| Hazard statement | Not applicable |

2.3. Other hazards

This product does not contain any substances that are assessed to be a PBT or a vPvB

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Note that the table shows known hazards of the ingredients in pure form. These hazards are reduced or eliminated when mixed or diluted, see Section 16d.

| Constituent | Classification | Concentration |
|-------------------|----------------|---------------|
| HYPOCHLOROUS ACID | | |
| CAS No: 7790-92-3 | | 0.075 % |
| EC No: 232-232-5 | | |

| Constituent | Classification | Concentration |
|---|---|---------------|
| SODIUM HYPOCHLORITE, SOLUTION % CL ACTIVE | | |
| CAS No: 7681-52-9 | Skin Corr 1B, Eye Dam 1, Aquatic Acute 1; $M = 10$, Aquatic Chronic 1; $M = 1$; | <0.0075 % |
| EC No: 231-668-3 | H314, H318, EUH031, H400, H410 | |
| Index No: 017-011-00-1 | | |

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complements used in the calculation of the classification of this mixture, see Section 16b.

SECTION 4: First aid measures

4.1. Description of first aid measures Generally

In case of concern, or if symptoms occur, call a doctor/physician.

Upon breathing in

Fresh air and rest. If symptoms persist seek medical advice.

Upon eye contact

Rinse the eye for several minutes with lukewarm water. If irritation persists call a doctor.

Upon skin contact

Normal washing of the skin is considered sufficient; If nevertheless symptoms do occur, contact a physician.

Upon ingestion

Rinse nose, mouth and throat with water. Get medical attention if you feel unwell.

- **4.2. Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3. Indication of any immediate medical attention and special treatment needed** Symptomatic treatment.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Extinguish with water mist, powder, carbon dioxide or alcoholresistant foam.

5.2. Special hazards arising from the substance or mixture In case of fire, substances hazardous to health, or substances harmful in other respects, may be dispersed.

5.3. Advice for fire-fighters

Protective measures should be taken regarding other material at the site of the fire. In case of fire use proper breathing apparatus. Wear full protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

In case of spillage in protected water, call the emergency services immediately, tel. 112 (in Europe). Avoid inhalation and exposure to skin and eyes. Use recommended safety equipment, see section 8.

Ensure good ventilation.

Note that there is a risk of slipping if product is leaking/spilling.

6.2. Environmental precautions

Avoid emissions into soil, water or air.

6.3. Methods and material for containment and cleaning up

Small spills can be wiped up with a cloth or similar. Then flush the spill site with water. Larger spills should first be covered with sand or earth and then be collected. Collected material should be disposed according to Section 13.

6.4. Reference to other sections

See section 8 and 13 for personal protection equipment and disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Store this product separately from food items and keep it out of the reach of children and pets.

Avoid spillage, inhalation and contact with eyes and skin.

Do not eat, drink or smoke in premises where this product is handled.

Handle in premises which have modern ventilation standards.

Remove contaminated clothing.

Wash contaminated clothing before reuse.

Avoid contact with other chemicals.

Keep away from incompatible products.

7.2. Conditions for safe storage, including any incompatibilities

This product should be stored well out of reach of young children and kept safely apart from products intended for consumption.

The product should be stored in a manner which prevents hazards to health and the environment. Avoid exposure to humans and animals and do not discharge the product in a sensitive environment.

Always use sealed and visibly labeled packages.

Store in dry and cool area.

Keep away from light.

Do not store close to incompatible materials (see section 10.5).

7.3. Specific end uses

See identified uses in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National limit values

All ingredients (cf. Section 3) lack occupational exposure limit values.

DNEL

No data available.

PNEC

No data available.

8.2. Exposure controls

Wash hands thoroughly after handling and before food intake or smoking.

8.2.1. Appropriate engineering controls

Handle in premises which have modern ventilation standards.

Eye/face protection

Eye protection should be worn if there is any danger of direct exposure or splashing.

Skin protection

Wear suitable protective clothing when necessary.

Protective gloves are normally not needed due to the properties of this product, but may be necessary for other reasons, e.g. mechanical risks, temperature conditions or microbiological risks.

Respiratory protection

Respiratory protective equipment is not normally required when working with this product, given that adequate ventilation is provided.

8.2.3. Environmental exposure controls

For limiting environmental exposure, see section 12.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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|------------------------------------|----------------------------------|
| a) Appearance | Form: liquid. Colour: Clear. |
| b) Odour | Not indicated |
| c) Odour threshold | Not indicated |
| d) pH | Not indicated |
| e) Melting point/freezing point | Not indicated |
| f) Initial boiling point and boili | ng range Not indicated |
| g) Flash point | Not indicated |
| h) Evaporation rate | Not indicated |
| i) Flammability (solid, gas) | Not applicable |
| j) Upper/lower flammability of | r explosive limits Not indicated |
| k) Vapour pressure | Not indicated |
| 1) Vapour density | Not indicated |
| m) Relative density | Not indicated |
| n) Solubility | Solubility in water: Soluble |
| o) Partition coefficient: n-octar | nol/water Not applicable |
| p) Auto-ignition temperature | Not indicated |
| q) Decomposition temperature | Not indicated |
| r) Viscosity | Not indicated |
| s) Explosive properties | Not applicable |
| t) Oxidising properties | Not applicable |
| | |

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product contains no substances which can lead to hazardous reactions at normal use.

10.2. Chemical stability

Decomposes slowly to oxygen. Decomposition may be accelerated by sunlight and some metals e.g. nickel, cobalt and copper.

10.3. Possibility of hazardous reactions

Upon reaction with acids chlorine is released.

10.4. Conditions to avoid

Avoid heating. Avoid contact with other chemicals. The product is sensitive to light.

10.5. Incompatible materials

Avoid contact with acids. Avoid contacts with amines. Avoid contact with ammonium compounds. Coloured fabric may be bleached.

10.6. Hazardous decomposition products

Oxygen. Chlorine gas.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Chlorine may be released upon heating or during contact with acids. This may cause airway irritation, nausea, pressure in chest and dyspnoea. With higher levels there is a risk of pulmonary oedema which may occur after several hours without prior trouble.

Acute toxicity

The product is not classified as acutely toxic.

SODIUM HYPOCHLORITE, SOLUTION ... % CL ACTIVE

LD50 rat 24h: 8200 mg/kg Orally

Skin corrosion/irritation

The product is neither corrosive nor irritant.

Serious eye damage/irritation

The product is not classified as irritant to the eyes.

Respiratory or skin sensitisation

The product is not classified as sensitising.

Germ cell mutagenicity

The product is not classified as mutagen.

Carcinogenicity

The product is not classified as carcinogenic.

Reproductive toxicity

The product is not classified as a reproductive toxicant .

STOT-single exposure

The product is not classified for specific organ toxicity after single exposure.

STOT-repeated exposure

The product is not classified for specific organ toxicity after repeated exposure.

Aspiration hazard

The product is not classified as being toxic for aspiration.

SECTION 12: Ecological information

12.1. Toxicity

Prevent release on land, in water and drains. No ecological damage is known or expected in the event of normal use.

SODIUM HYPOCHLORITE, SOLUTION ... % CL ACTIVE

LC50 Rainbow trout (Oncorhynchus mykiss) 96h: 0.06 mg/L EC50 Freshwater water flea (Daphnia magna) 48h: 0.141 mg/L NOEC 96h: 0.04 mg/L NOEC Algae 7d: 0.002 mg/L

12.2. Persistence and degradability

The product degrades in the natural environment.

12.3. Bioaccumulative potential

This product or its constituents are not expected to accumulate in nature.

12.4. Mobility in soil

The product is miscible with water and is therefore variable in soil and water.

12.5. Results of PBT and vPvB assessment

This product does not contain any substances that are assessed to be a PBT or a vPvB.

12.6. Other adverse effects

No known effects or hazards.

SECTION 13: Disposal considerations

13.1. Waste treatment methods Waste handling of the product

Avoid discharge into sewers. The product is not classified as hazardous waste. Empty, rinsed packaging is sent for recycling where practicable. Observe local regulations or contact the supplier for further information. See also national waste regulations.

SECTION 14: Transport information

Where not otherwise stated the information applies to all of the UN Model Regulations, i.e. ADR (road), RID (railway), ADN (inland waterways), IMDG (sea), and ICAO (IATA) (air).

14.1. UN number

Not classified as dangerous goods

- 14.2. UN proper shipping name
- Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable

14.8 Other transport information

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

REGULATION (EU) No 528/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 22 May 2012 concerning the making available on the market and use of biocidal products.

15.2. Chemical safety assessment

Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

SECTION 16: Other information

16a. Indication of where changes have been made to the previous version of the safety data sheet

Revisions of this document

Earlier versions

2020-04-08 Changes in section(s) 1, 3, 11, 12.

16b. Legend to abbreviations and acronyms used in the safety data sheet

| Fun texts for mazaru Class and Category Code mentioned in section 5 | | |
|---|--|--|
| Skin Corr 1B | Corrosive (Category 1B) | |
| Eye Dam 1 | Irreversible Eye Effects (Category 1) | |
| Aquatic Acute 1; $M = 10$ | Very toxic to aquatic life (Category Acute 1 M=10) | |
| Aquatic Chronic 1; $M = 1$ | Very toxic to aquatic life with long lasting effects to aquatic environments (Category | |
| | Chronic 1) | |

Explanations of the abbreviations in Section 14

ADR European Agreement concerning the International Transport of Dangerous Goods by Road

RID Regulations concerning the International Transport of Dangerous Goods by Rail

- IMDG International Maritime Dangerous Goods Code
- ICAO International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)

IATA The International Air Transport Association

16c. Key literature references and sources for data Sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I, as updated to 2020-05-05.

Where such data was not available, alternative documentation used to establish the official classification was used, e.g. IUCLID (International Uniform Chemical Information Database). As a second alternative, information was used from reputable international chemical industries, and as a third alternative other available information was used, e.g. material safety data sheets from other suppliers or information from non-profit associations, where reliability of the source was assessed by expert opinion. If, in spite of this, reliable information could not be sourced, the hazards were assessed by expert opinions based on the known hazards of similar substances, and according to the principles in 1907/2006 and 1272/2008.

Full texts for Regulations mentioned in this Safety Data Sheet

- 1907/2006 REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
- 2015/830 COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- 1272/2008 REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- 1907/2006 REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification

Hazard calculation for this mixture has been performed as a cumulative assessment with the aid of expert assessments in accordance with 1272/2008 Annex I, where all available information which may be significant to establishing the hazards of the mixture was assessed together, and in accordance with 1907/2006 Annex XI.

16e. List of relevant hazard statements and/or precautionary statements Full texts for hazard statements mentioned in section 3

- H314 Causes severe skin burns and eye damage
- H318 Causes serious eye damage
- EUH031 Contact with acids liberates toxic gas
- H400 Very toxic to aquatic life
- H410 Very toxic to aquatic life with long lasting effects

16f. Advice on any training appropriate for workers to ensure protection of human health and the environment Warning for misuse

This product is not expected to cause severe harm to humans or the environment. The manufacturer, the distributor or the supplier are not responsible for adverse effects if the product is not handled in accordance with the directions for use.

Other relevant information

Not indicated

Editorial information



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