Part No: WA0002 - DEW Disinfect

Material Safety Data Sheet

DEW Disinfect

Revision: 16-07-2020

Replaces: 12-04-2020

Version: 1.7 / UK

Section 1: Product and company identification

1.1. Product identifier

Technical name: **DEW Electrolysed Water Disinfectant or Anolyte**

Trade names: **DEW Disinfect.**

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

Recommended uses: General purpose Disinfection.

Use biocides safely. Always read the label and product information before use. This safety data sheet contains general information concerning the chemical, but specific instructions and guidelines are indicated on the product label and in the instructions for use.

1.3. Details of the supplier of the safety data sheet.

Supplier: Ecoanolytes Limited
6 Lawside Road
Dundee. DD3 6BQ
Scotland.

Tel: +44 (0) 7500 821822

1.4. Emergency telephone number.

+44 (0) 7500 821822

Emergency telephone comments: The emergency telephone is open between 9 a.m. and 5 p.m. on working days.

Section 2: Hazards identification

CLP-classification (Regulation (EC) No 1272/2008):

The product shall be classified as **non-hazardous** according to EU classification and labelling rules.

2.1 Main Hazards: DEW Disinfect in its strongest form (C.ac >260mg/l) in rare cases may cause irritation to the eyes, sensitive skin and throat. Where the solution is stored in bottles one should not try to smell or inhale the evaporations.

2.2 Health effects Eyes: DEW Disinfect in its strongest form may cause irritation to people with sensitive eyes.

2.3 Health effects Skin: DEW Disinfect in its strongest form may cause slight irritation to very sensitive skin or open wounds.

2.4 Health effects Ingestion: Swallowing of the solution in its strongest form may cause minor irritation to the throat and digestive tract.

2.5 Health effects Inhalation: During generation of DEW Disinfect, particularly its strongest form, unless there is adequate ventilation there may be a build up of fumes which may cause dizziness and nausea.

Section 3: Composition and information on the ingredients

DEW Disinfect contains active chlorine compounds such as HOCl (FAC in mg/l or ppm) in the range of 0.024-0.03% generated from sodium chloride by means of electrolysis. The average/standard amount of active chlorine is ~0.026%. The solution contains no compounds as per the regulations for toxic compounds (67/548/EWG)

Main ingredients	CAS-No	EINICS-No	Wt/vol %	Symbols
Sodium Chloride	7647-14-5	231-598-3	0.134%	NaCl
Hypochlorous acid	7790-92-3	232-232-5	0.026%	HClO
Water	7732-18-5	231-791-2	99.84%	H_20

Section 4: First aid Measures

4.1. Description of 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

4.2. Most important symptoms and effects, both acute and delayed

May cause slight irritation to the skin and eyes.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptoms. No special immediate treatment required.

Section 5: Fire Fighting Measures

There are no special requirements for DEW Disinfect products, they are not flammable

Section 6: Accidental Release Measures

6.1. Personal precautions:

None.

6.2. Environmental precautions:

The solution is biodegradable and has a limited activation period so there are no potential risks to the environment.

6.3. Methods and material for containment and cleaning up

Wipe up with disposable towels there are no special disposal instructions.

6.4. Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

Section 7: Handling and Storage

7.1. Precautions for safe 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.

7.2 Conditions for safe storage including any incompatibilities :

Store in a cool dry ventilated area in sealed plastic containers and ensure the solution is correctly labelled

7.3. Specific end use(s)

None

Section 8: Exposure Control/ Personal Protection

8.1. Control parameters

Legal basis: Directive 2000/39/EC as subsequently amended. Contains no substances subject to reporting requirements.

8.2. Exposure controls

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:	Liquid
Colour and Appearance:	Clear, transparent liquid (like water)
Odour:	Faint odour similar to bleach, depending on strength of the solution
Solubility in water:	Completely soluble
PH-values:	6.2 - 6.7
Melting-point:	0°C.

Boiling-point: 100°C.
Fire-focus: N/A
Flammability: None
Upper/lower flammability limits: No data
Explosive: N/A
Upper/lower explosive limits: No data
Density: app. 1,000 kg.m^3
Steam-pressure: app. 2,330 Pa
Relative density: 1

Section 10: Stability and Reactivity

10.1. Reactivity Not reactive.

10.2. Chemical stability The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid None known.

10.5. Incompatible materials None known.

10.6. Hazardous decomposition products

None known.

Section 11: Toxicological Information

Acute toxicity - oral: Ingestion of large quantities may cause discomfort. The product does not have to be classified. Test data are not available.

Acute toxicity - dermal: The product does not have to be classified. Test data are not available.

Acute toxicity - inhalation: The product does not have to be classified. Test data are not available.

Skin corrosion/irritation: May cause slight irritation. The product does not have to be classified. Test data are not available.

Serious eye damage/eye irritation:

May cause eye irritation. The product does not have to be classified. Test data are not available.

Respiratory sensitisation or skin sensitisation:

The product does not have to be classified. Test data are not available.

Germ cell mutagenicity: The product does not have to be classified. Test data are not available.

Carcinogenic properties: The product does not have to be classified. Test data are not available.

Reproductive toxicity: The product does not have to be classified. Test data are not available.

Single STOT exposure: Inhalation of vapours may cause irritation to the upper airways. The product does not have to be classified. Test data are not available.

Repeated STOT exposure: The product does not have to be classified. Test data are not available.

Aspiration hazard: The product does not have to be classified. Test data are not available.

Other toxicological effects: None known.

Section 12: Environmental Information

12.1. Toxicity

The product does not have to be classified. Test data are not available.

12.2. Persistence and degradability

Expected to be biodegradable. Test data are not available.

12.3. Bioaccumulative potential

No bioaccumulation expected. Test data are not available.

12.4. Mobility in soil

Test data are not available.

12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

None known.

Section 13: Disposal Procedures

There are no special disposal procedures.

Section 14: Transport procedures

The product is not covered by the rules for transport of dangerous goods.

14.1. UN number -

14.2. UN proper shipping name -

14.3. Transport hazard class(es) -

14.4. Packing group -

14.5. Environmental hazards -

14.6. Special precautions for user -

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code –

Section 15: Regulatory Information

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. Ecoanolytes Ltd.

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

Special provisions: None.

15.2. Chemical safety assessment

Chemical safety assessment has not been performed.

Section 16: Other Information

Abbreviation explanations: PBT: Persistent, Bioaccumulative and Toxic

vPvB: Very Persistent and Very Bioaccumulative

STOT: Specific Target Organ Toxicity

Classification method: Calculation based on the hazards of the known components.

H-phrases: No H-phrases.

Training: A thorough knowledge of this safety data sheet should be a prerequisite condition. 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. In case of doubt or for clarification Ecoanolytes Ltd. should be consulted. Ecoanolytes Ltd. 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.

Other information: **This safety data sheet has been prepared for and applies to DEW Disinfection Ready-to-Use products. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with 1907/2006/EC (REACH) as subsequently changed.**

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DEW Disinfection Products

By