

aquagroup Aktiengesellschaft

Biocide / Disinfectant

Produced by ECA Technology and ECA System of Aquagroup AG, Germany

NADES 2.0

ECA (Electro Chemically Activated) Solution/Disinfectant to safe and improve the microbial quality of water, food, environment and surface area. This disinfectant is produced by the electrolysis of natural ingredients (water and salt (NaCl)) only.

One For All. Perfect form of Disinfection. (Kills 99.99% of Germs)

Features

- High antimicrobial efficacy
- Effective against all known microorganism & biofilm (including bacteria, virus, algae, fungi and spore)
- No harmful Chlorates
- Environmentally friendly
- Non-irritating
- High Worker Safety
- Produced by natural and food grade ingredients
- Easy to use
- Quick acting against Germs

Fields of Applications

- Water, Beverage, Dairy and Brewing Industry
- Meat, Sea Food Industry
- Poultry Farms, Slaughter House & Abattoir
- Live Stock & Dairy Farm
- Hotel, Resort, Hotel Apartment, Villa, Commercial & Residential Building
- Schools
- Hospital and Clinic
- Restaurant, Kitchen & Cafeteria
- Fruits & Vegetables Processing Co.
- Cooling Tower Industry
- Cosmetic & Pharma Co.
- Biogas Plants
- Cruise Liner & Off Shore



Applications of NADES 2.0

Water Treatment	Surface Disinfection	Product Microbial Decontamination
 Drinking water treatment 	• Floor/Wall/Tables	Fruit/Vegetable sanitation
 Process water treatment 	CIP/Machines	• Fish microbial
Swimming pool water	Filler head microbial	decontamination
treatment	decontamination	Carcass washing
Cooling tower water	Bottle rinsing	Meat/Sea Food microbial
treatment	 Reused bottles rinsing 	decontamination
Waste/Sewerage water treatment	 Water pipeline and water system flushing 	
 Lake water treatment 	 Tank disinfection 	
 Irrigation water treatment 	Utensils/Equipment	
Dosage – 1% - 5%	Dosage – 2 % to 5 %	Dosage – 1% - 5%
Contact Time: 1 – 5 Min	Contact Time: 1 – 5 Min	Contact Time: 1 – 5 Min

TECHNICAL SPECIFICATIONS

Product identifier NADES 2.0

Biocide/Disinfectant Relevant Uses

Details of the supplier of the safety data sheet

Supplied by

Fayfa Chemicals (Aquagroup Swiss

GmbH - Dubai Branch)

P.O Box: 6246, Dubai, UAE Tel: +971 4 347 20 82 Mob: +971 50 451 05 13 Fax: +971 4 347 20 42 www.FavfaChemicals.com

Address enquiries to Technical information

support@fayfachemicals.com

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/ not applicable

2008 [CLP]

Classification according to Regulation 67/548/EEC or

1999/45/EC

Hazard symbols none R-phrases none

The product does not require a hazard warning label in accordance

with EC-directives

Label elements

Labeling according to Regulation 67/548/EEC or 1999/

45/EC

Hazard symbols none R-phrases none Biocide (98/8/CE) contains

0.8/100g Sodium hypochlorite

Regulation:

Other hazards

Environment hazards

Human health dangers No particular hazards known. The product/the substance in concentrated farm is hazardous to

Section-3

Product-type:

<3

The product is a mixture.

Range [%] substance

Sodium hypochlorite 0.1 - 0.8

CAS: 7681-52-9 FINECS/FLINCS: 231-668-3. EU-INDEX: 017-011-00-1 GHS/CLP: Met. Corr. 1 - H290 - Skin Corr. 1B - H314 - Aquatic Acute 1-

H400 - EUH 031 EEC: C-N. R 31-34-50 Sodium chloride

CAS: 7647-14-5, EINECS/ELINCS:

231-598-3 GHS/CLP:

<0,0002 Sodium hydroxide

CAS: 1310-73-2, EINECS/ELINCS: 215-185-5, EU-INDEX: 017-011-00-1 GHS/CLP: Skin Corr. 1A - H314

EEC: C. R 35

Section-4

Personal precautions, protective equipment and -

emergency procedures

Ensure adequate ventilation. Use personal protective equipment.

Environmental precautions

Do not discharge 100% concentrate into the drains/surface

waters/groundwater. Prevent spread over a wide area (e.g. by containment or oil barriers).

Description of first aid measures

General information Change soaked clothing

Inhalation Ensure supply of fresh air Skin contact When in contact with the skin, clean with soap and water.

Consult a doctor if skin irritation

nersists

In case of contact with eyes rinse

thoroughly with plenty of water and seek medical advice. Do not induce vomiting.

Rinse out mouth and give plenty of

water to drink.

Supply with medical care.

Eye contact

Ingestion

Precautions for safe handling

Use only in well-ventilated areas. The normal safety precautions for handling chemicals must be

observed.

Conditions for safe storage, including any incompatibilities

Keep only in original container. Prevent penetration into the

ground.

Do not store together with acids. Keep container tightly closed. Keep container in a well-ventilated

nlace

Keep in a cool place.

Information on basic physical and chemical properties

Liquid Light yellowish Color Chlorine Odor pH-value 9,5 Density [g/ml] 1.2 Solubility in water soluble

Section-8

Reactivity No dangerous reactions known if

used as directed.

Stable under normal ambient **Chemical stability**

conditions (ambient temperature).

Possibility of hazardous reactions

Reactions with oxidizing agents.

Conditions to avoid strong heating

Incompatible materials Sodium hypochlorite: Evolution of

chlorine under influence of acids.

Hazardous decomposition products

Chlorine compounds.

Information on toxicological effects

Acute toxicity

Range [%] Substance

<3

Sodium hypochlorite: CAS: 7681-0, 1 - 0, 8

52-9

LD50, oral, Rat: > 5000 mg/kg (IUCLID).

LC50, inhalative, Rat: > 10,5 mg/l

(IUCLID).

Sodium chloride, CAS: 7647-14-5 LD50, oral, Rat: 3000 mg/kg

bw (IUCLID).

< 0.0002 Sodium hydroxide, CAS 1310-73-2

LD50, oral Rat: 2000 mg/kg (Lit.). LD50, dermal, Rabbit: 1350 mg/kg

(IUCLID).

Section-10

0.1 - 0.8

<3

Toxicity

Range [%] Substance

52-9

Sodium hypochlorite: CAS: 7681-EC50, (48h), Daphnia magna:

0,01-0,1 mg/L. M=10 LC50, (96h), fish:0,01-0,1mg/L M=0

Sodium chloride, CAS: 7647-14-5 EC50, (48h), Daphnia magna:

1000 mg/L (IUCLID).

LC50, (96h), Lepomis macrochirus:

9675 mg/L (IUCLID).

< 0,0002 Sodium hydroxide, CAS 1310-73-2

LC50, (96h), fish: 35 - 189 mg/L. LC50, (96h), Oncorhynchus mykiss: 45,4 mg/L (IUCLID)(50%) EC50, (24h), Daphnia magna:

76 mg/L (50%).

Safety, health and environment regulations/legislation

specific for the substance or mixture

EEC-REGULATIONS 1967/548 (199/45): 1991/689 (2001/

118): 1999/13: 2004/42: 648/2004: 1907/2006 (Reach); 1272/2008; 75/ 324/EEC (2008/47/EC); 453/2010/EC

TRANSPORT-REGULATIONS

DOT-Classification, ADR (2011);IMDG-Code (2011, 35. Amdt.); IATA-DGR (2

012).

NATIONAL REGULATIONS (GB):

EH40/2005 Workplace exposure limits with amendments October

2007. CHIP 3/ CHIP 4

Chemical safety assessment

Chemical safety assessments for substances in this mixture were not

carried out.

Note: For further information please see MSDS