

## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE PRODUCT

#### 1.1. Product Name/s: **Fertix**

Recommended Use: Disinfectant Cleaner

Active agent: sodium hypochlorite

The sodium hypochlorite in the 1062/2014/EK concerning the placing of biocidal products second phase of the 10-year work program referred to in Article (2) - II Regulation. Annex 1, 2, 3, 4, 5, 6, 11 and 12 product types for inclusion in the review program.

#### 1.2. Manufacturer / Distributor:

##### Well Done St. Moritz Kft.

2900 Komárom, Mártírok út 92.

Tel.: (36) 34 340 312, Fax: (36) 34 540 129

Web: [www.welldone.eu](http://www.welldone.eu)

E-mail: [welldone@welldone.eu](mailto:welldone@welldone.eu)

Emergency Call: Hungarian Health and Toxicological Information Service (ETTSZ)

Phone number: (36) 1 476-6464, (36) 06 80 201-199

### 2. HAZARDS IDENTIFICATION

#### 2.1. Product classification

The product is dangerous mix.

#### 2.2. Label elements

Skin Irrit. 2, H315

Eye Dam. 1, H318

Aquatic Acute 1, H400

Hazard pictograms: GHS05 ; GHS09

DANGER



#### The mixture dangers / risks of warning H-phrase

H315 Causes skin irritation.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

EUH206 Warning! Do not use together with other products. May release dangerous gases (chlorine).

#### Precautionary Statements

P102 Keep out of reach of children.

P103 Read label before use.

P281 Use personal protective equipment as required.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P501 Dispose of contents/container to according to local regulations

**Active agent:** sodium hypochlorite 150 g/l 31,5% ;

**Hazard determining components:** sodium hypochlorite ; sodium hydroxide

**Ingredients according to the 648/2004 / EC:** <5% chlorine-based bleaching agent, <5% non-ionic surfactant, fragrance.

#### 2.3. Other hazards

**Attention! Do not mix with other products, danger of releasing dangerous gases (chlorine).**

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Proportion %	Classification
<b>Sodium Hypochlorite</b> CAS No.: 7681-52-9 EU No:231-668-3 Index:017-011-00-1	3-4	Skin Corr. 1B, H314; STOT SE 3, H335, Aquatic Acute 1, H400,; Aquatic Chronic 1, H410; EUH031
<b>Alkyl (C10-16) dimethyl amine N-oxide</b> CAS No.: 70592-80-2 EU No:274-687-2	< 1	Skin Irrit. 2, H315; Eye Dam. 1, H318; Aquatic Acute 1, H 400
<b>Sodium Hydroxide</b> CAS No: 1310-73-2 EU-No:215-185-5 Index:011-002-00-6	1	Met. Corr. 1, H290; Skin Corr. 1A, H314

#### 4. FIRST AID MEASURES

- 4.1. General Advice:** If poisoning occurs contact a doctor or Poisons Information
- 4.2. Ingestion:** Remove product from mouth. Drink 1 or 2 glasses of water. If large amount swallowed or symptoms develop contact a doctor or Poisons Information Centre. DO NOT induce vomiting.
- 4.3. Eye contact:** Hold eyes open, flood with water for at least 15 minutes and obtain medical attention.
- 4.4. Skin contact:** Remove contaminated clothing and wash the skin thoroughly with water. If symptoms occur seek medical advice.
- 4.5. Inhalation:** Remove from source of exposure to fresh air. Obtain medical attention immediately.
- 4.6. Symptoms:** Symptoms may vary depending on the level of exposure
- 4.7. Notes to physician:** Symptomatic and general supportive treatment should be given.
- 4.8. Treatment:** Treat Symptomatically

#### 5. FIREFIGHTING MEASURES

- 5.1. Suitable extinguishing media:**  
Extinguish with water, CO<sub>2</sub>, foam or dry chemical.
- 5.2. Specific hazards:** arising from the mixture of chlorine-containing gases and vapors. Hazards from decomposition products: Decomposes when heated, and under fire conditions, and at >35°C may emit toxic Chlorine gas. Reacts with acids and may produce dangerous levels of toxic Chlorine gas.
- 5.3. Precautions for fire fighters and special protective equipment:**  
Fire fighters should wear self-contained breathing apparatus for risk of exposure to decomposition products.

#### 6. ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions, protective equipment and emergency procedures:**  
Avoid contact with skin and eyes. Provide adequate ventilation. Be aware of the risk of slipping! The veszélyövezet seal, discharge only person with complete protective equipment.
- 6.2. Environmental precautions:**  
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- 6.3. Methods and material for containment and cleaning up:**  
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) with care to pre-prepared and labeled containers.
- 6.4. Reference to other sections: See also Chapter 7, 8 and 13 sections.

#### 7. HANDLING AND STORAGE

- 7.1. Precautions for Handling:** For domestic use: Avoid skin and eye contact. Wash hands immediately after use. When handling bulk product wear safety glasses and protective gloves. Avoid contact with skin. Avoid excessive inhalation. Always wash hands before smoking, eating, drinking and using the toilet.
- 7.2. Precautions for Storage:** An eyewash station should be installed next to where bulk product is made or stored. The product is cool, sunlight, well-ventilated place in original, unopened packaging, tightly closed, foodstuffs, consumer goods separately, acids should be stored away. Keep out of reach of children!
- 7.3. Specific end use(s):** biocidal product 2 and 4 product type.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. National occupational exposure limits

The sodium hypochlorite solution, acid, or heat effect of chlorine gas may be:

Chlorine: 1.5mg/m<sup>3</sup> TWA 1.5mg/m<sup>3</sup> STEL

Sodium hydroxide: 2mg/m<sup>3</sup> TWA 2mg/m<sup>3</sup> STEL

**DNEL/DERIVED NO EFFECT LEVEL:**

**Sodium hydroxide:** DNEL (long-term / inhalation exposure, local effects): 1 mg / m<sup>3</sup>

**sodium hypochlorite:**

DNEL (long-term dermal exposure, local effects): 0.5%

DNEL (long-term inhalation, systemic / topical effect): 1,55 mg/m<sup>3</sup>

DNEL (short exposure, inhalation, systemic / topical effect): 3.1 mg / m<sup>3</sup>

DNEL (long-term oral exposure, systemic effects): 0.26 mg / kg / day

**PNEC: PREDICTED NO EFFECT CONCENTRATION**

**Sodium hypochlorite:** PNEC (freshwater): 0.21 mg / l; PNEC (sea water): 0.024 mg / l

**8.2. Engineering controls:** When handling bulk product, ensure adequate ventilation.

### 8.3. Personal protective equipment:

When handling bulk product wear safety glasses and protective gloves. Avoid prolonged contact with skin. Avoid excessive inhalation. Wash hands before breaks and at end of shifts.

Always wash hands before smoking, eating, drinking and using the toilet.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form/Colour/Odour: translucent liquid. product characteristics (Citrus, pine, ocean)

Specific Gravity (20C): 1.08

Boiling Point (C): Not available

Melting Range (C): Not applicable

Vapour Pressure (20C): Not applicable

Flash Point (C): > 100 °C

Flammability Limits (%): Not available

pH: Approx. 12.5 (neat)

Active Chlorine 3,4 – 3,6%

## 10. STABILITY AND REACTIVITY

**10.1. Stability:** Product is stable when stored and used in accordance with manufacturers directions.

**10.2. Conditions to avoid:** Hot conditions >35°C. Cold conditions <0°C. Never add acid to this product.

**10.3. Incompatible materials:** Reducing Agents; Acids; Peroxides; ammonia, ammonium salts.

**10.4. Hazardous decomposition products:** Decomposes on heating emitting toxic Chlorine vapour.

**10.5. Hazardous reactions:** Reacts with acids to release toxic and corrosive Chlorine gas.

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Toxicological studies have did not happen been targeted

Human health assessment of only the composition and toxicity data for the individual components, that is specified in Section 3 concentrations, classifications, and of the requirements for concentration limits of Regulation 1272/2008 / EC

### 11.2. Symptoms of exposure to this product:

**Eye contact:** Causes irritation.

**Skin contact:** Causes irritation.

**Ingestion:** Causes irritation.

**Inhalation:** Causes irritation and may cause bronchospasm in chlorine sensitive individuals.

**11.3. Long Term Effects:** Causes irritation.

### 11.4. Acute Toxicity/Chronic Toxicity:

150 g / l sodium hypochlorite data concerning:

LD50 (oral, rat): 1100 to 5800 mg / kg;

LD50 (dermal, rabbit): > 20 000 mg / kg

LC50 (inhalation, rat): 10.5 mg / l / 1 h

Skin Corr serious damage to eyes (OECD 404, OECD 405).

NOAEL: 50 mg / kg / day

Other (Carcinogenicity, mutagenicity, reproductive toxicity, etc.) effect: not known significant effects or critical hazards.

## 12. ECOLOGICAL INFORMATION

**12.1. Toxicity:** product targeted studies have been performed, was assessed in accordance with the CLP Regulation on the basis of ecotoxicological data on ingredients. The product mixture no in an acute or chronic hazard classified environment.

in the product surfactant is readily biodegradable. The biodegradability complies with the biodegradability criteria as laid down in Regulation 648/2004 / EC. Data to support this at all times to the competent authorities of the Member States are available, and can be viewed on request or at the request of a detergent manufacturer directly.

### **Benzyl-alkyl (C12-16) dimethyl ammonium chloride:**

LC50 (Fish, 96 h): 0.515 mg / l

EC50 (Daphnia magna, 48 h): 0.016 mg / l

IC50 (algae, 96 h): 0.03 mg / l

NOEC (Daphnia magna, 21 days): 0,025 mg / l

NOEC (fish, 28 days): 0.0322 mg / l

**Sodium hypochlorite:** EC50 (Daphnia magna, 48 h): 0.141 mg active chlorine / l

LC50 (freshwater fish): 0.06 mg / l

LC50 (seafood): 0.032 mg / l

EC50 (Crassostrea virginica, 48 h): 0.026 mg / l

**Alkyl (C10-16) dimethyl amine N-oxide:** LC50 (fish, 96 h): 0.1 to 1 mg / l

12.2. Bioaccumulative - No data

12.3. Mobility in soil - No data

12.4. Results of PBT and vPvB - No data

12.5. Other adverse effects - no data

## 13. DISPOSAL CONSIDERATIONS

Refer to State Land Waste Management Authority. Empty bottles can be rinsed and disposed through council recycling service if this type of packaging is accepted.

## 14. TRANSPORT INFORMATION

UN Number: 1791

Proper shipping name: HYPOCHLORITE SOLUTION

Class: 8 Corrosive

Classification code: C5

Packing group: III

Tunnel restriction code: 2 (E)

Limited and discount rate 5 liters and E1

Special Precautions for User: None

## 15. REGULATORY INFORMATION

Relevant Community legislation, ( 1907/2006/EC) and amendments ( 987/2008 , 134/2009/EK , 552/2009/EK , 453/2010/EK ) REACH Regulation DSD and DPD Directive, 67/548/EEC and 1999/45/EC CLP Regulation ( 1272/2008/EC ) , as amended Biocidal pieces of legislation: Directive 98/8/EC No 1451/2007/EK Detergent Regulation, 648/2004/EC and its amendments Relevant national legislation Chemical safety: 2005th CXXVII . to 2004. XXVI . amended by Law 2000th XXV . Dangerous for the environment , the 44/2000. ( . XII.27 ) Ministry of Health and its amendments ;25 / 2000th ( IX.30 . ) ACGIH TLV band and its amendments . Health and safety: the 2007th CLXII year . Law for 2004. Act XI . Law and the 1997th CII . amended by Law 1993rd XCIII . Occupational Safety and Health Act. Biocides Regulation 38 / 2003rd ( . VII.7 ) ESzCsSM Ministry of Agriculture , Ministry of Environment co - regulation and amendments thereto; Waste : . ( . Chapter 15 ) 98/2001 Decree , and the 16 / 2,001th KöM ( VII.18 . ) Fire protection: the 1996 Convention. Act XXXI . Law on protection against fire, technical rescue and fire brigades , the 9 / of 2008. ÖTM ( II.22 . ) .

## 16. OTHER INFORMATIONS

The safety data sheet is characterized by the safety requirements of the product and is not intended to guarantee certain of its properties, is not a substitute for product specifications. The information, data and recommendations contained in this safety data sheet is based on our best knowledge and awareness, and they are accurate, we know to be correct at time of publication and believe. The user takes responsibility for themselves as to the application and use of the product. The data does not imply any legal liability or responsibility for the consequences of any circumstances, use or misuse of the result.

### **Explanations used for the hazard**

**Eye Irrit.2** Eye irritation, category 2

**Skin Corr.1B** Skin Corrosion category 1

**Met.Corr.1** Corrosive to metals category 1

**Eye Dam.1** Eye damage category 1

**Aquatic Chronic 1** The aquatic environment is dangerous, long-term threat. category 1

**STOT SE 1** Organ toxicity, single exposure category 1

**H phrases (indications of danger) used in step 3 Safety Data Sheet:**

H290- May be corrosive to metals.

H302- Harmful if swallowed

H314- Causes severe skin burns and eye damage.

H315- Skin irritation

H318 -Causes serious eye damage.

H400- Very toxic to aquatic life.

H410 -Very toxic to aquatic life with long lasting effects.

EUH031- Contact with acids liberates toxic gas.

Date of issue: 28 September 2015