

## Safety Data Sheet

Complies with requirements of Regulation (EC) Nr. 453/2010 (REACH)

**Product name: hygoMat antibacterial Mat**  
**Revision Date: 22.09.2015**

**Licence Nbr. CHZN0279**  
**Version (2)**

### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product Identifier

Hygolet Art. 80.200 "hygoMat antibacterial Mat" (treated with Ultra-Fresh KW-48 of the company „Thomson Research Associates Inc.49, Gervais Drive, Toronto, Ontario, Canada M3C 1Y9“)

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

Polypropylene/carboxylated styrene butadiene latex urinal mat treated with Ultra-Fresh KW-48 for antimicrobial protection.

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

Company information: Hygolet (Europe) AG  
Zürcherstrasse 70  
CH-8620 Wetzikon  
Tel. ++41 (0)44 933 5656  
Fax. ++41 (0)44 933 5659

#### For further information please contact:

E-mail Address [info@hygolet.com](mailto:info@hygolet.com)

#### 1.4. Emergency telephone numbers:

Emergency telephone 145 (Speed calling Tox-center)  
+41 (0)44 251 51 51 (Tox-center)

## 2. Hazards Identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation EC No. 1272/2008

H302 Acute Tox. 4  
 H332 Acute Tox 4  
 H318 Eye Dam. 1  
 H400 Aquatic Acute 1  
 H410 Aquatic Chronic 1

### 2.2. Label elements



Signal Word: Danger

#### Hazard Statements

H302 Harmful if swallowed  
 H318 Causes serious eye damage  
 H332 Harmful if inhaled  
 H410 Very toxic to aquatic life with long lasting effects

#### Precautionary statements

P102 Keep away from children

### 2.3. Other hazards

None

## 3. Composition/Information on Ingredients

### 3.2. Mixtures (Ultra-Fresh KW48)

#### PYRITHIONE ZINC

Weight: 48%	Classification 67/548	EC No. 236-671-3, CAS No. 13463-41-7
	Classification 1272/2008	Xn; R22, T; R23, Xi; R41, N; R50
		Acute Tox. 4; H302, Acute Tox. 3; H331, Eye Dam. 1; H318, Aquatic. Acute 1; H400

Function in the product identifier Antimicrobial treatment of the urinal mat

#### SODIUM POLYNAPHTALENE SULFONATE CAS No. 9084-06-4

Weight: 8%	Classification 67/548	N; R50/53
	Classification 1272/2008	Aquatic. Acute 1; H400, Aquatic. Chronic 1; H410

Function in the product identifier Dispersing agent

#### Water

Weight: 44% Function in the product identifier Diluting agent

For the treatment of the urinal mat 28g of liquid ratio 1 to 6 is used, i.e. 1 part Ultra-Fresh KW48 and 6 parts water, which is 4g - 5g Ultra-Fresh KW-48 per mat.

Share Pyrithione Zink: 2.5g/Mat, Share Sodium Polynaphtalene Sulfonate: 0,4g/Mat

For the full text of R-Phrases and H-Statements see Section 16.

## **4. First-aid measures**

### **4.1. Description of first-aid measures**

General hint: On occurring of unidentifiable symptoms or if in doubt please require medical advice.

Skin contact: If symptoms develop, wash off with plenty of water for at least 15 min and obtain medical attention.  
Eye contact: Flush with plenty of water for at least 15 min and get medical help if symptoms develop.  
Inhalation: Remove victim to fresh air and get medical help if symptoms develop.  
Ingestion: Not a probable route of exposure

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

None

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

Note to physician: Treat symptomatically

## **5. Fire-fighting measures**

### **5.1. Extinguishing media**

Suitable Extinguishing Media: Water spray, dry chemical, carbon dioxide (CO<sub>2</sub>), or foam.  
Extinguishing media which shall not be used for safety reasons: None

### **5.2. Special hazards arising from the substance of mixture**

Thermal decomposition can lead to the release of irritating and toxic gases and vapors: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), Sulfur oxides.

### **5.3. Advice for firefighters**

As in any fire, wear self-contained breathing apparatus and full protective gear.

## **6. Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Eye, hand and respiratory protection is not required.

### **6.2. Environmental precautions**

Avoid release to waterbodies.

### **6.3. Methods and materials for containment and cleaning up**

Absorb spill with inert material (e.g. dry sand or earth). Wash spill area with soapy water.

### **6.4. Reference to other sections**

See also section 8 and 13.

## **7. Handling and storage**

### **7.1. Precautions for safe handling**

Ensure adequate ventilation.

### **7.2. Conditions for safe storage, including any incompatibilities**

Storage temperature 10-40 C. Do not expose to open flame.

### **7.3. Specific end uses**

The antimicrobial treatment of the urinal mat with Ultra-Fresh KW-48. Acts as a deodorizer for unpleasant odour.

## 8. Exposure Controls/Personal Protection

### 8.1. Control parameters

Pyrrithione Zinc 13463-41-7: Germany: Skin No further information.

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Provide adequate ventilation.

#### 8.2.2. Personal protective equipment in an event of fire

Eye protection: Tightly fitting safety goggles (EN 166)  
 Hand protection: Protective gloves; Nitrile rubber (EN 374)  
 Skin and body protection: Long sleeved clothing  
 Respiratory protection: Respirator must be worn if exposed to dust (BS EN 14387:2004+A1)

#### 8.2.3. Environmental Exposure Controls

Avoid release to the environment

## 9. Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

Physical state: A polypropylene/latex blend mat (48x40cm)  
 Colour: Black  
 Odour: Indiscernable  
 Odour threshold: Non-applicable

<u>Property:</u>	<u>Values:</u>
pH (20C):	6,5 – 9 (Ultra-Fresh KW-48)
Melting/freezing point :	1.5 (Ultra-Fresh KW-48)
Flashpoint:	>100 (Ultra-Fresh KW-48)
Evaporation rate:	No information available
Flammability:	>2000 (mat)
Upper/lower flammability limit:	No information available (Ultra-Fresh KW-48)
Vapor pressure:	23 mmHg (Ultra-Fresh KW-48)
Vapor density:	> 1 (Ultra-Fresh KW-48)
Relative density:	1.04 (Ultra-Fresh KW-48)
Water solubility:	Immiscible (Ultra-Fresh KW-48)
Partition coefficient:	n-Octanol/water, no information available (Ultra-Fresh KW-48)
Autoignition temperature:	>2000 (mat)
Decomposition temperature:	Non-applicable
Viscosity:	Non-applicable
Explosive properties:	Not explosive (Urinal mat and Ultra-Fresh-48)
Oxidizing properties:	Non-applicable

### 9.2. Other Information

VOC Content (%): 0 (ASTM: D2369-93)  
 Softening point: No information available  
 Molecular weight: No information available  
 Density: No information available  
 Bulk density: No information available

## 10. Stability and Reactivity

### 10.1. Reactivity

None known.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Non under normal processing.

### 10.4. Conditions to avoid

Temperatures above 54 C

### 10.5. Incompatible materials

None

### 10.6. Hazardous decomposition products

Thermal decomposition can lead to the release of irritation and toxic gases and vapors: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), Sulfur oxides

## 11. Toxicological Information (Urinal mat)

### 11.1. Information on toxicological effects

Acute toxicity:	none
Skin corrosion/irritation:	none
Serious damage/eye irritation:	none
Respiratory or skin sensitisation:	none
Mutagenicity:	not mutagenic
Carcinogenicity:	not carcinogenic
Reproductive toxicity:	none
Specific target organ toxicity STOT:	
- Single exposure	none
- Repeated exposure	none
Aspiration hazard:	none

Other information: None

## 12. Ecological Information (Ultra-Fresh KW-48)

### 12.1. Toxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Pyrethrin zinc EC<sub>50</sub>: 0,0082 mg/l/48h (daphnia); EC<sub>50</sub>: 0,0012 mg/l/120h algae; LC<sub>50</sub> 0,0026 mg/l/96h (fish)

**12.2. Persistence and degradability** Inherently biodegradable (Pyrethrin zinc)

**12.3. Bioaccumulative potential** Bioconcentration factor (BCF): 50 (Pyrethrin zinc) Does not bioaccumulate

**12.4. Mobility in soil** Immobile (Pyrethrin zinc). No further information available

### 12.5. Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT) nor very persistent or very bioaccumulating (vPvB).

**12.6. Other adverse effects** No information available

**13. Disposal Considerations** (Urinal mat)

**13.1. Waste treatment methods**

Waste of residues/unused products: Dispose of in accordance with local regulations.

**14. Transport Information** (Urinal mat)

<b>14.1. UN Number</b>	None applicable
<b>14.2. Proper shipping name</b>	Hygolet Art. 80.200 "Hygomat"
<b>14.3. Transport hazard class(es)</b>	None applicable
<b>14.4. Packing group</b>	None applicable
<b>14.5. Environmental Hazards</b>	None
<b>14.6. Special precautions for users</b>	None
<b>14.7. Transport in bulk according to MARPOL 73/78 and the IBC Code</b>	--

**15. Regulatory Information**

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

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 and No. 1272/2008.

**15.2. Chemical safety assessment**

No information available

**16. Other information**

Full text of R-phrases and H-statements referred to under sections 2 and 3.

**H-statements:**

- H302 Harmful if swallowed
- H318 Causes serious eye damage
- H332 Harmful if inhaled
- H400 Very toxic to aquatic life
- H410 Very toxic to aquatic life with long lasting effects

**R-phrases:**

- R20/22 Harmful by inhalation and if swallowed
- R22 Harmful if swallowed
- R23 Toxic by inhalation
- R41 Risk of serious damage to eyes
- R50 Very toxic to aquatic organisms
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Abbreviations:**

EC50 effective concentration 50%

LC50 Letal concentration 50%

VOC Volatile Organic Compounds

**Disclaimer:**

The information and recommendations contained herein are based upon data believed to be up-to-date and correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information and recommendations contained herein. We accept no responsibility and disclaim all liability for any harmful effects that may be caused by (incorrect) use, handling, purchase, resale, or exposure to our product. Customers and users of our product must comply with all applicable health and safety laws, regulations and orders. In particular, they are under an obligation to carry out a risk assessment for the particular work places and to take adequate risk management measures in accordance with the national implementation legislation of EU Directives 89/391 and 96/24.

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