	<b>ACTIWA SWISS (THAILAND) CO.,LTD</b>			<b>MSDS</b>
	<b>MATERIAL SAFETY DATA SHEET</b>			
	<b>Product</b>	<b>Rev.</b>	<b>Page</b>	<b>Date</b>
<b>Steriplant®</b>	<b>1.2e</b>	<b>1</b>	<b>20/08/2016</b>	

## 1. IDENTIFICATION OF PRODUCT

<b>Trademark Name :</b>	<b>Steriplant®</b>
<b>Intended Use :</b>	Surface disinfectant (Bacteria, Fungus, Virus), Extending the shelf life (Fruit, Vegetables, Meats), Drinking water treatment
<b>Manufacturer :</b>	Actiwa Swiss (Thailand) Co., Ltd.
<b>Address :</b>	100/219 Soi Chaloem, Phrakiet, Soi 28 Yeak 3, Dok Mai, Prawet, Bangkok 10250
<b>Telephone / Fax Number :</b>	+66.8.46999957
<b>Emergency Phone Number:</b>	EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT with this product. +66(0)8 46 999957 Contact person: Leonard Melvin Fernando

### Global Distribution Channels

Marketed by: Green Energy Marketing (Thailand) Co. Ltd. - Contact person: Leonard Melvin Fernando - +66.8.46999957  
Marketed by WaterCloud International (Singapore) Pte. Ltd. - Contact person; Grace Ling - +65.9199.9218  
Marketed by WaterCloud International (Malaysia) Sdn. Bhd. - Contact person: Leonard Melvin Fernando -+66.8.46999957

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

(Component)	CAS No.	UN/ID No.	Volume/1,000 ml (W/W)	Unique Dataset No. SZID	Register No.
Sodium hypochlorite	7681-52-9	1791	0.035 %	28789	1. Reg. Nr. CHZN 1017 (Federal office of community health) in Switzerland 2. Reg. Nr. 933 since Dec.2008 in Slovenia 3. Reg. Nr.36480, 36481,36482 (BAUA)
Chlorine dioxide	10049-04-4	9191	0.0011 %		
Sodium chlorate	7775-09-9	1495	0.0015 %		
Ozone	-	-	0.0024 %		
<b>Total of Oxidants (Calculate as available chlorine)</b>			<b>0.04 %</b>		
Water	7732-18-9	-	99.96 %		

**Note : Balance of the ingredients are non-hazardous or less than 1% in concentration (composition is less than 0.1%. consequently it is not classified as a carcinogen)**

## 3. HAZARDS IDENTIFICATION

**Product Specification :** Product is not classified as dangerous according to Switzerland Register No. CHZN1017 of the BAG, Register No.933 in Slovenia, Register No.36480, 36481, 36482 of the BAUA

**Physical and Chemical Hazard / Fire and Explosion :** Liquid can not release vapors that can readily form flammable mixtures at temperatures at or above the flash point.

## 4. EMERGENCY FIRST AID MEASURES


**Measures general :** never give anything by mouth to an unconscious person. if you feel unwell, seek medical advice  
**Eye contact :** No action required

**Skin contact :** No action required.

**Inhalation :** Non reactive.

## 5. FIREFIGHTING MEASURES

Since the product has no ingredients that cause spark and explosions therefore there is no fire fighting measures.

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	<b>Product</b>	<b>Rev.</b>	<b>Page</b>	<b>Date</b>
	<b>Steriplant®</b>	<b>1.2e</b>	<b>2</b>	<b>20/08/2016</b>

## 6. ACCIDENTAL RELEASE MEASURES

The product is not toxic to environmental.

## 7. HANDLING AND STORAGE INFORMATION

**Storage Temperature :** 10-40 C°

**Transport Temperature :** 10-40 C°

**Loading/Unloading Temperature :** 10-40 C°

**Storage/Transport Pressure :** Atmospheric pressure

**Electrostatic Accumulation Hazard :** None

**Material and Coating Suitable :** High Density Polyethylene Containers

**Material and Coating Unsuitable :** PP Containers or PET Bottles

**Storage/Handling :**

- Store in closed container between 10-40 C°
- The containers are reusable

## 8. PERSONAL PROTECTION MEASURES

None, since the product doesn't cause irritation

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State :** Liquid

**Appearance :** Clear liquid, No sediment

**Solubility in water :** Good

**Viscosity :** None

**Fire Hazard :** Although the components have not been tested for fire hazard and explosion data, they are not expected to be fire hazards, but some of the kit packaging materials may burn under fire conditions

**Flash Point :** Not established.

**Auto Igniting :** Product is not known to be self-igniting.

**pH :** The liquid chemical components are between pH 7 and 7.3

## 10. STABILITY AND REACTIVITY INFORMATION

**Stability :** Stable under ordinary conditions of use and storage.

**Material to Avoid :** None

## 11. TOXICOLOGICAL INFORMATION

**Acute**

Inhalation

- Negligible, the product cannot irritate the mucous membrane.

Skin Contact

- Prolonged or repeated contact does not cause significant skin irritation.

Ingestion

- No hazards anticipated from ingestion.

Eyes Contact

- Doesn't cause irritation

**Chronic**

Prolonged or repeated contact does not cause chronic toxicity or side effect or human and animals

## 12. ECOLOGICAL INFORMATION


**Environment Mobility :** Waste can be disposed without water treatment

**Environmental Degradability :** The product can decompose immediately

**Eco-toxicity and Bioaccumulation :** The product can not cause eco-toxicity

## 13. DISPOSAL CONSIDERATIONS

**PREPARING WASTES FOR DISPOSAL :** Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

	<b>ACTIWA SWISS (THAILAND) CO.,LTD</b> <b>MATERIAL SAFETY DATA SHEET</b>			<b>MSDS</b>
	<b>Product</b>	<b>Rev.</b>	<b>Page</b>	<b>Date</b>
	<b>Steriplant®</b>	<b>1.2e</b>	<b>3</b>	<b>20/08/2016</b>

#### 14. TRANSPORT INFORMATION

**Road and Rail Transport**

**DOT Hazard Class** : Not regulated

**DOT Proper Shipping Name** : Not applicable

**UN/NA Number** : Not applicable

**Marine Transport**

**IMDG/IMO Hazard Class** : Not regulated

**IMDG/IMO Proper Shipping Name** : Not applicable

**Air Transport**

**ICAO/IATA Hazard Class** : Not regulated

**ICAO/IATA Proper Shipping Name** : Not applicable

This product is not classified as Dangerous Goods, by rules of IMDG/IMO and ICAO/IATA

#### 15. REGULATORY INFORMATION

This product is not hazard under criteria of:

- Federal Office of Public Health (FOPH), Switzerland. Registration No. CHZN1017
- Slovenia Registration No. 933
- BAUA Registration No. 36480, 36481, 36482
- Food and Drug Administration, Thailand. Registration No. Sor Por 32/2557
- Department of Livestock, Thailand. Registration No. Kor Por Sor 01 02 57 0104
- Department of Fisheries, Thailand. Registration No. Kor Sor 0514 01 3 0022 56

#### 16. OTHER INFORMATION

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.