

# MATERIAL SAFETY DATA SHEET



Product name:

## Liberty Max Antimicrobial

### 1. Product and Company Information

Product name: **Liberty Max Antimicrobial**  
Manufacturer/supplier: Profound Technology Inc.  
PO Box 3963  
Olds, AB  
Phone: 1-888 819 08 91

### 2. Composition / Information relating to Components

**Liberty Max Antimicrobial:** Water (H<sub>2</sub>O) CAS No.: 7732-18-5 99.9965%  
Hypochlorous acid (HOCl) CAS No.: 7782-50-5 0.0020%  
Sodium chloride (NaCl) CAS No.: 7647-14-5 0.0015%

Analysis of **Liberty Max Antimicrobial** (produced with current feed of 11 Ampère) carried out in August 2009 by the institute Dr. Loercher, Ludwigsburg, Germany.

| Parameter         | Analysis method              | Measured value | Dimension                          |
|-------------------|------------------------------|----------------|------------------------------------|
| pH value, 20°C    | DIN 30 404 C 5               | 5.5-6          | --                                 |
| Redox potential   | DIN 38 404 C 6               | 850            | mV                                 |
| Conductance, 25°C | DIN EN 27888 C 8             | 4400           | µS/cm                              |
| Oxygen saturation | DIN 38 408 G 23              | 240            | %                                  |
| HOCl              | titrimetisch nach DIN EN 901 | 20             | mg/l                               |
| Chlorate          | DIN EN 10304-4/IC            | 15             | mg/l ClO <sub>3</sub> <sup>-</sup> |
| NaOCl             | DIN EN ISO 15061 D 34 (IC)   | 20             | mg/l BrO <sub>3</sub> <sup>-</sup> |

Comparison to tap water H<sub>2</sub>O in CH-8863 Buttikon:

pH value ~ 7  
ORP value ~ +250 mV  
Oxygen O<sub>2</sub> ~ 4,5 mg/l.

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No dangerous ingredients for the purpose of the directive 67/548/EEC.

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## 3. Hazards Identification

The product is classified as not dangerous for the purpose of the directive 88/379/EEC.  
Direct contact with eyes can result in no irritation.  
Ingestion can result in irritation of the oesophagus and of the digestive tract.

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## 4. First Aid Measures

### Inhalation:

Temporary inhalation is inoffensive. Otherwise remove individual to fresh air.

### Eye contact:

No particular precautions required.

### Skin contact:

No particular precautions required.

### Ingestion:

Drink clear water.

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## 5. Fire-Fighting Measures

Not applicable

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## 6. Accidental Release Measures

No particular precautions required.

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## 7. Handling and Storage

### Handling:

Inhaling of atomised spray should be avoided.

### Storage:

Keep container locked up.

Do not expose to ambient temperature of under 2°C and over 25°C.

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## 8. Exposure Control / Personal Protection

Safety measure:

Provide for sufficient ventilation by local extraction or room aeration.

Breathing protection:

Under normal conditions, a breathing protection is not necessary.

Hand protection:

No special precautions required.

Eye and face protection:

No particular precautions required

Body protection:

Normal work clothes. In case of spillage, remove wet clothes and rinse with water.

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## 9. Physical and Chemical Properties

|                         |                                 |
|-------------------------|---------------------------------|
| Appearance:             | clear liquid (like water)       |
| Odour:                  | typical faint smell of chlorine |
| pH-value:               | 5.5-6                           |
| Melting point:          | approx. 0° C                    |
| Boiling point:          | approx. 100° C                  |
| Flame point:            | not applicable                  |
| Ignition:               | not applicable                  |
| Self-Ignition:          | not applicable                  |
| Danger of explosion:    | not applicable                  |
| Density at 20° C:       | approx. 1'000 kg/m <sup>3</sup> |
| Steam pressure at 20°C: | approx. 2'330 Pa                |
| Solubility in water:    | immediate and total             |

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## 10. Stability and Reactivity

|                        |                                |
|------------------------|--------------------------------|
| Stability:             | stable under normal conditions |
| Reactivity:            | oxidising                      |
| Casual decay products: | none known                     |

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## 11. Toxicological Information

Acute exposure:

|               |                                   |
|---------------|-----------------------------------|
| Inhalation    | no afflictions known              |
| Absorption    | no afflictions known              |
| Eyes and skin | may sporadically cause irritation |

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Chronic effects:

|               |         |
|---------------|---------|
| Allergisation | unknown |
| Carcinogenic  | unknown |
| Mutagenic     | unknown |

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## 12. Ecological Information

Germicidal within the limits of the intended use.

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## 13. Disposal Considerations

Dispose into sewer system. Consider point 6.

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## 14. Transport Considerations

Not considered dangerous goods.

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## 15. Regulatory Information

Registered by Health Canada and Canadian Food Inspection Agency for sanitizing status.

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## 16. Miscellaneous

The security file describes products with regard to the safety requirements and does not have the meaning of property promise.

The details, which are contained in the security files refer only to the indicated product and is based on the latest developments and the latest knowledge. However, they cannot apply for the product if product is used with different materials or in a different processing.

There is no guarantee for perfection, reliability and completeness.

It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions and disposal procedures.