

FINNSONIC CAVITEC HD PRO

Date 10.11.2015

Previous date: 15.10.2015

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier****1.1.1 Commercial Product Name**

FINNSONIC CAVITEC HD PRO

1.1.2 Product code

423051,423052

1.2 Relevant identified uses of the substance or mixture and uses advised against**1.2.1 Recommended use**

Strongly basic liquid/mixture. For professional users only.

1.3 Details of the supplier of the safety data sheet**1.3.1 Supplier**

FinnSonic Oy

Street address

Parikankatu 8

Postcode and post office

15170 LAHTI

Telephone

(03) 883030

Telefax

(03) 8830 330

Business ID

1081076-0

Email

sales@finnsonic.com

1.4 Emergency telephone number**1.4.1 Telephone number, name and address**

Poison advisory center in Finland: +358 9 471 977

SECTION 2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture****1272/2008 (CLP)**

Skin Corr. 1A, H314

Met. Corr. 1, H290

2.2 Label elements**1272/2008 (CLP)**

GHS05

Signal word

Danger**Hazard Statements**

H314

Causes severe skin burns and eye damage.

H290

May be corrosive to metals.

Precautionary Statements

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P313

Get medical advice/attention.

P501

Dispose of contents/container to [in accordance with local regulations].

2.3 Other hazards

n.v.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Hazardous components****CAS/EC and
Reg.number****EINECS****Chemical name of the
substance****Concentration Classification**

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1310-58-3 / 215-181-3 01-2119487136-33	potassiumhydroxide	5 - 15 %	Acute Tox. 4 (oral), H302; Skin Corr. 1A, H314; Met. Corr. 1, H290
64-02-8 / 01- 200-573-9 2119486762-27	4Na EDTA	5 - 9,5 %	Eye irrit. 2, H319; Acute Tox. 4 (inhal.) H332; STOT RE 3, H373; Met.Corr.1, H290
164462-16-2	Trisodium dicarboxymethylalaninate	5 - 15 %	Met.corr.1; H290

3.3 Other information

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SECTION 4. FIRST AID MEASURES**4.1 Description of first aid measures**

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4.1.2 Inhalation

Move to fresh air. As needed go to the doctor

4.1.3 Skin contact

Take off all contaminated clothing immediately. Wash off immediately with plenty of water.

4.1.4 Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

4.1.5 Ingestion

Consult a physician. Do not induce vomiting. Rinse mouth. Drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of immediate medical attention and special treatment needed

Treatment according to symptoms.

SECTION 5. FIREFIGHTING MEASURES**5.1 Extinguishing media****5.1.1 Suitable extinguishing media**

The product in itself is incombustible.

5.2 Special hazards arising from the substance or mixture

When the product reacts with metals, frees hydrogen, which can form the explosive mixture with air.

5.3 Advice for firefighters

Overalls for chemicals. Aqualung or comparable breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment.

6.2 Environmental precautions

Should not be released into the environment. Prevent product from entering drains.

6.3 Methods and materials for containment and cleaning up

Neutralise with acid. Small amounts: Flush with plenty of water.

6.4 Reference to other sections

Personal protection, see item 8.

SECTION 7. HANDLING AND STORAGE

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- 7.1 Precautions for safe handling**
Handle and open container with care. wear personal protective equipment
- 7.2 Conditions for safe storage, including any incompatibilities**
Keep at temperatures above +10 °C.
- 7.3 Specific end use(s)**
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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
- 8.1.1 Threshold limits**
Potassium hydroxide 2 mg/m³ (15 min)
- 8.1.4 DNELs**
No information available.
- 8.1.5 PNECs**
No information available.
- 8.2 Exposure controls**
- 8.2.1 Appropriate engineering controls**
wear personal protective equipment
- 8.2.2 Individual protection measures**
- 8.2.2.1 Respiratory protection**
As needed: Respiratory protection according to EN 143: P2/P3.
- 8.2.2.2 Hand protection**
Protective gloves complying with EN 374. PVC, nitrile rubber, butylrubber.
- 8.2.2.3 Eye/face protection**
Eye protection according to EN166. face-shield, Eye wash bottle with pure water tightly fitting safety goggles.
- 8.2.2.4 Skin protection**
chemical resistant apron, protective suit. Rubber or plastic boots.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Important Health Safety and Environmental Information**
- 9.1.1 Appearance**
clear, yellowish liquid.
- 9.1.4 pH** > 13,5
- 9.1.13 Relative density** 1,30 kg/dm³
- 9.1.14 Solubility(ies)**
- 9.1.14.1 Water solubility** completely soluble
- 9.2 Other information**
None

SECTION 10. STABILITY AND REACTIVITY

- 10.1 Reactivity**
When the product reacts with metals, frees hydrogen, which can form the explosive mixture with air.
- 10.2 Chemical stability**
Stable at normal conditions.
- 10.3 Possibility of hazardous reactions**
Exothermic reaction with strong acids.
- 10.4 Conditions to avoid**
Store above freezing.

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- 10.5 Incompatible materials**
light metals.
- 10.6 Hazardous decomposition products**
n.v.

SECTION 11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects**
- 11.1.1 Acute toxicity**
potassium hydroxide:
LD50/oral/rat = 273 mg/kg
- 11.1.2 Irritation and corrosion**
Causes severe skin burns and eye damage.
- 11.1.3 Sensitisation**
n.v.
- 11.1.4 Subacute, subchronic and prolonged toxicity**
n.v.

SECTION 12. ECOLOGICAL INFORMATION

- 12.1 Toxicity**
- 12.1.1 Aquatic toxicity**
potassium hydroxide:
LC50/96h/fish (*Gambusia affinis*) = 45 mg/l
- 12.2 Persistence and degradability**
- 12.2.1 Biodegradation**
No data is available on the product itself.
- 12.2.2 Chemical degradation**
See item [10].
- 12.3 Bioaccumulative potential**
n.v.
- 12.4 Mobility in soil**
Because the product is water-soluble, it can spread in the soil.
- 12.5 Results of PBT and vPvB assessment**
n.v.
- 12.6 Other adverse effects**
n.v.

SECTION 13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods**
Dispose in compliance with local and national regulations

SECTION 14. TRANSPORT INFORMATION

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	Land transport ADR/RID	Sea transport IMDG/IMO
14.1 UN number	UN1814	UN1814
14.2 UN proper shipping name	KALIUMHYDROKSIDILIUOS	POTASSIUM HYDROXIDE SOLUTION
14.3 Transport hazard class(es)	8	IMO Class 8
14.4 Packing group	II	PGII
14.5 Environmental hazards		
Other information		

14.6 Special precautions for users

n.v.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

n.v.

SECTION 15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****15.2 Chemical safety assessment**

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SECTION 16. OTHER INFORMATION**16.3 Key literature references and sources for data**

This MSDS is based on currently valid laws and regulations. Safety Data Sheets of raw materials

16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H373	May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

16.6 Training advice

Look at label or leaflet.