SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
Product name : GIGASEPT® PA_GENERATOR
Product code : 1308000.

1.2. Relevant identified uses of the substance or mixture and uses advised against
Cold disinfection of instruments and endoscopes
To be used after activation with Gigasept PA® (Activator)
For further information on product indication, please see the label.

1.3. Details of the supplier of the safety data sheet
Registered company name : Laboratoires ANIOS.
Address : PAVE DU MOULIN .59260.LILLE - HELLEMES.FRANCE.
Telephone : + 33 (0)3 20 67 67 67. Fax : + 33 ( 0)3 20 67 67 68.
e:mail : fds@anios.com

1.4. Emergency telephone number : + 33(0)1 45 42 59 59.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
In compliance with EC regulation No. 1272/2008 and its amendments.
This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.
This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).
This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.
This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).
This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements
In compliance with EC regulation No. 1272/2008 and its amendments.

Additional labeling :
- EUH210 Safety data sheet available on request.
- Precautionary statements - General :
P102 Keep out of reach of children.
- Precautionary statements - Prevention :
P280 Wear protective gloves.
- Precautionary statements - Response :
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Precautionary statements - Disposal :
P501 Dispose of unused product and its container as hazardous waste.

2.3. Other hazards
The mixture does not contain substances classified as ‘Substances of Very High Concern' (SVHC) >= 0.1% published by the European Chemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table
Risk of decomposition if in contact with decomposition catalysts, alkalis, reducing agents, flammable products.
The product is an oxidizing reactive agent. Risk of decomposition when heated.
Caution! Due to use of a degasser cap, it is imperative that packages are stored upright (cap on top), in order to avoid excessive pressure (risk of leak and/or swelling)

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Title for H, EUH and R indications: see § 16.

3.2. Mixtures

Composition:

<table>
<thead>
<tr>
<th>Identification</th>
<th>(EC) 1272/2008</th>
<th>67/548/EEC</th>
<th>Note</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 7722-84-1</td>
<td>GHS07, GHS05, GHS03</td>
<td>C;O</td>
<td>B</td>
<td></td>
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<tr>
<td>EC: 231-765-0</td>
<td>Dgr</td>
<td>C;R35</td>
<td>[1]</td>
<td></td>
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<tr>
<td>REACH: 01-2119485845-22</td>
<td>Ox. Liq. 1, H271</td>
<td>Xn;R20/22</td>
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<tr>
<td>HYDROGEN PEROXIDE SOLUTION</td>
<td>Acute Tox. 4, H302</td>
<td>O;R8</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skin Corr. 1A, H314</td>
<td>R5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acute Tox. 4, H332</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>STOT SE 3, H335</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aquatic Chronic 3, H412</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Information on ingredients:

[1] Substance for which maximum workplace exposure limits are available.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of exposure by inhalation:

Move the person away from the place of exposure and take him/her outside.

In the event of splashes or contact with eyes:

If applicable, remove contact lenses.

Wash thoroughly with soft clean water for 15 minutes, holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin:

Remove all contaminated or stained clothing immediately. Do not use them again until they have been decontaminated.

Rinse immediately and thoroughly with water.

In the event of skin irritation, seek medical advice.

In the event of swallowing:

Rinse out the mouth, do not induce vomiting, keep the person calm and take him/her to a clinic or a doctor’s. Show the container or label.

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

Cf. § 11

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

Refer to the recommendation of the doctor.

SECTION 5 : FIREFIGHTING MEASURES

Spray water to cool down surfaces exposed to fire and to protect the personnel.

In case of peripheral fire, there is a risk of decomposition with oxygen release which would favour combustion.

In case of a fire, if it is possible without risk, remove all containers exposed to the fire and store them in a safe place, away from any source of heat.

Risk of over-pressure and bursting in the event of decomposition in closed containers.

5.1. Extinguishing media

Suitable methods of extinction

Any extinguishing agents are authorized: foam, sand, carbon dioxide, water, powder.
5.2. Special hazards arising from the substance or mixture
A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke.

5.3. Advice for firefighters
Use autonomous insulating breathing apparatus and a full protective suit.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Consult the safety measures listed under headings 7 and 8. Avoid inhaling the fumes.

6.2. Environmental precautions
Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal. Do not get rid in natural spaces (waterways, ground and vegetations...)

6.3. Methods and material for containment and cleaning up
Absorb any spilled product with absorbent non-combustible materials, and sweep away or remove with a shovel. Put any waste in drums for disposal. Do not mix with any other waste. Wash the contaminated surface thoroughly with water. Do not collect the product for re-use.

6.4. Reference to other sections
Disposal considerations: see section 13.

SECTION 7 : HANDLING AND STORAGE

7.1. Precautions for safe handling
Product for external use - do not swallow. Avoid all contact with skin or eyes. Handle in accordance with user instructions on label. Do not mix with any other product than the ones dedicated to the solution activation. Use in well-ventilated areas. Handle at a temperature not exceeding 45°C. Handle in a well ventilated place, with extraction at the source during transfer operations. Risk of overpressure and bursting in the event of decomposition in closed containers and in pipes. Do not hermetically seal the container when the mixture Gigasept PA Activator/Generator has been performed.

Fire prevention:
Prevent access by unauthorised personnel.

Recommended equipment and procedures:
For personal protection, see section 8. Observe precautions stated on label and also industrial safety regulations. Ensure room is well ventilated. Water source nearby.

Prohibited equipment and procedures:
No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities
Keep in the original container only, in a cool and well-ventilated place, out of the light and away from combustible materials and reducing agents (amines), acids, bases, heavy metal compounds (accelerators, siccative agents, metallic salts). Recommended storage temperature: from +5°C to +25°C.
Do not hermetically seal the container.
Always transport and store the containers upright. Risk of overpressure and bursting in the event of decomposition in closed containers and in pipes. Do not use after the expiry date mentioned on the packaging. Keep out of the reach of children.
7.3. Specific end use(s)
For professional use only
Refer to paragraph 1 for product indication

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION
The information in this chapter refers to the product specifically described in this document. If the product is handled and/or exposed simultaneously with other chemical agents, these must be taken into consideration when choosing personal safety equipment.
The Exposure Threshold Limit Value and the Average Exposure Value given below are quoted by the CAS number of the substance. Paragraph 3 details the chemical name corresponding to the CAS number.

8.1. Control parameters
Occupational exposure limits :
- Belgium (Order of 19/05/2009, 2010) :
  CAS TWA : STEL : Ceiling : Definition : Criteria :
  7722-84-1 1 ppm - - - -
- France (INRS - ED984 :2008) :
  CAS VME-ppm : VME-mg/m3 : VLE-ppm : VLE-mg/m3 : Notes : TMP No :
  7722-84-1 1 1.5 - - - -
- Spain (Instituto Nacional de Seguridad e Higiene en el Trabajo (INSHT), Mayo 2010) :
  CAS TWA : STEL : Ceiling : Definition : Criteria :
  7722-84-1 1 ppm - - - -
- Poland (2009) :
  CAS TWA : STEL : Ceiling : Definition : Criteria :
  7722-84-1 1.5 mg/m3 4 mg/m3 - - -
- Czech Republic (Regulation No. 361/2007) :
  CAS TWA : STEL : Ceiling : Definition : Criteria :
  7722-84-1 1 mg/m3 2 mg/m3 - - -
- Slovakia (Regulation No. 300/2007) :
  CAS TWA : STEL : Ceiling : Definition : Criteria :
  7722-84-1 1.4 mg/m3 I.
- Switzerland (SUVA 2009) :
  CAS VME-mg/m3 : VME-ppm : VLE-mg/m3 : VLE-ppm : Temps : RSB :
  7722-84-1 0.71 0.5 0.71 0.5 15 min -
- UK / WEL (Workplace exposure limits, EH40/2005, 2007) :
  CAS TWA : STEL : Ceiling : Definition : Criteria :
  7722-84-1 1 ppm 2 ppm - - -

8.2. Exposure controls
Suitable technical inspections
Ensure the rooms are well-ventilated. Atmospheric concentrations at the workplace must not exceed the limit values given for normal conditions of use.

- Eye / face protection
Avoid contact with eyes.
Water source nearby.

- Hand protection
Recommended properties :
- Impervious gloves in accordance with standard EN374
When handling this product, wear suitable gloves.
Neoprene gloves are particularly recommended.

- Body protection
Work clothing worn by personnel shall be laundered regularly.
After contact with the product, all parts of the body that have been soiled must be washed.
- **Respiratory protection**
  In case of insufficient ventilation, with the risk of exceeding the TLVs (Threshold Limit Values)/TWA, wear suitable breathing apparatus. Use Type B1P1 or B2P2 filters.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1. Information on basic physical and chemical properties

**General information:**
- Physical state: Fluid liquid.
- Odour: N/A
- Colour: Colourless

**Important health, safety and environmental information**
- pH: 8.00 (Slightly basic)
- Boiling point/boiling range: Not specified
- Flash point interval: Not relevant
- Vapour pressure (50°C): Not relevant
- Density: +/- 1
- Water solubility: Soluble
- Melting point/melting range: Not specified
- Self-ignition temperature: Not specified
- Decomposition point/decomposition range: Not specified

9.2. Other information
No data available.

**SECTION 10: STABILITY AND REACTIVITY**

10.1. Reactivity
No hazardous reaction if the instructions/indications for storage and handling are respected.

10.2. Chemical stability
This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions
Cf. § 10.1 and 10.2

10.4. Conditions to avoid
- Avoid:
  - Frost
  - Do not mix with other products except those defined for use.
  - Avoid exposure to light and sun
  - Decomposition by heat and light.

10.5. Incompatible materials
Chlorinated products.
Decomposition catalysts, alkalis, reducing agents, iron, galvanized steels, soft steels, non-ferrous metal, aluminium: possible dangerous reaction (product decomposition with release of hydrogen and oxygen).

10.6. Hazardous decomposition products
At high temperatures, dangerous decomposition products may be produced, such as fumes, carbon dioxide and carbon monoxide, nitrogen oxide.
Decomposition in water and oxygen
SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects
No data available.

11.1.1. Substances
Not specified

11.1.2. Mixture
The toxicological data of the mixture (resulting from studies or in accordance with conventional methods) are outlined below.

Acute toxicity:
Acute toxicity estimate (ATE)*:
Oral ATE: > 2000 mg/kg
* according to the method of calculation described in the CLP regulation (Classification, Labelling, Packaging) Part 3 Chapter 3.1 based on the data of the different components present in the product.
Ingestion may lead to irritation of the buccal cavity.
Sore throat, abdominal pain, nausea.

Skin corrosion/skin irritation:
Possibility of itching with light to moderate local redness.

Serious damage to eyes/eye irritation:
May lead to slight ocular irritation: redness of the conjunctiva and lacrimation.

SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity
12.1.1. Substances
Not specified

12.1.2. Mixtures
The mixture has not been classified as an environmental hazard, in compliance with EC regulation 1272/2008.

12.2. Persistence and degradability
No data available.

12.3. Bioaccumulative potential
No data available.

12.4. Mobility in soil
No data available.

12.5. Results of PBT and vPvB assessment
No data available.

12.6. Other adverse effects
No data available.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

Do not pour into waterways.

13.1. Waste treatment methods
Waste:
Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.
Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Soiled packaging:
Empty container completely. Keep label(s) on container.
Give to a certified disposal contractor.
**Codes of wastes (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste):**

18 01 06 * chemicals consisting of or containing dangerous substances

For information:
The waste code must be determined by the user, according to the application of the product.
The following waste code is given for indicative purposes only.
18 = Wastes from human or animal health care and/or related research (except kitchen and restaurant wastes not arising from immediate health care)

**SECTION 14 : TRANSPORT INFORMATION**

Exempt from transport classification and labelling.

**SECTION 15 : REGULATORY INFORMATION**

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

15.2. Chemical safety assessment

Information from the chemical safety assessment of substances present in the product is included in the appropriate sections of this safety data sheet, whenever necessary.

**SECTION 16 : OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture.

It is recommended that the information contained in this safety data sheet is provided to the users, if necessary in an appropriate form.

This information relates to the specifically designated product and may not be valid in combination with any another product. The product must not be used for applications other than those specified in heading 1 without having first obtained written handling instructions.

**UPDATES SINCE PREVIOUS VERSION**


**Title for H, EUH and R indications mentioned in section 3:**

- **H271** May cause fire or explosion; strong oxidiser.
- **H302** Harmful if swallowed.
- **H302 + H332** Harmful if swallowed or if inhaled.
- **H314** Causes severe skin burns and eye damage.
- **H332** Harmful if inhaled.
- **H335** May cause respiratory irritation.
- **H412** Harmful to aquatic life with long lasting effects.
- **R 20/22** Harmful by inhalation and if swallowed.
- **R 35** Causes severe burns.
- **R 5** Heating may cause an explosion.
- **R 8** Contact with combustible material may cause fire.

**Abbreviations:**

- **ADR**: European agreement concerning the international carriage of dangerous goods by Road.
- **IMDG**: International Maritime Dangerous Goods.
- **IATA**: International Air Transport Association.
- **ICAO**: International Civil Aviation Organisation.
- **RID**: Regulations concerning the International carriage of Dangerous goods by rail.