SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: Hydrogen peroxide solution <5%, stabilized
SDS-number: 000000020197
Type of product: Mixture

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

Use of the Substance/Mixture: Laboratory chemicals
Uses advised against: none

1.3. Details of the supplier of the safety data sheet

Company: Honeywell Specialty Chemicals Seelze
GmbH
Wunstorfer Straße 40
30926 Seelze
Germany

Honeywell International, Inc.
115 Tabor Road
Morris Plains, NJ 07950-2546
USA

Telephone: (49) 5137-999 0
Telefax: (49) 5137-999 123
For further information, please contact: PMTEU Product Stewardship:
SafetyDataSheet@Honeywell.com

1.4. Emergency telephone number

Emergency telephone number: +1-703-527-3887 (ChemTrec-Transport)
+1-303-389-1414 (Medical)

Country based Poison Control Center: see chapter 15.1

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008
Not a hazardous substance or mixture.

2.2. Label elements

REGULATION (EC) No 1272/2008
Hydrogen peroxide solution <5%, stabilized

Precautionary statements:

P280 Wear protective gloves/ eye protection/ face protection.

Not a hazardous substance or mixture.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Index-No.</th>
<th>REACH Registration Number</th>
<th>EC-No.</th>
<th>Classification 1272/2008</th>
<th>Concentration</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>hydrogen peroxide solution</td>
<td>7722-84-1</td>
<td>008-003-00-9</td>
<td>01-2119485845-22</td>
<td>231-765-0</td>
<td>Ox. Liq. 1; H271 Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1A; H314 STOT SE 3; H335 Aquatic Chronic 3; H412</td>
<td>&gt;= 1 % - &lt; 5 %</td>
<td>1*</td>
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</table>

1* - For specific concentration limits see Annexes of 1272/2008

Remaining components of this product are non-hazardous and/or are present at concentrations below reportable limits.

Occupational Exposure Limit(s), if available, are listed in Section 8.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice:
First aider needs to protect himself. Immediately take off contaminated clothing and rinse body with plenty of water.

Inhalation:
If inhaled, remove to fresh air. Call a physician if irritation develops or persists.

Skin contact:
After contact with skin, wash immediately with plenty of water. Call a physician if irritation develops or persists.

**Eye contact:**
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician if irritation develops or persists.

**Ingestion:**
Rinse mouth with water. Do NOT induce vomiting. Call a physician immediately.

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

no data available

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

no data available

See Section 11 for more detailed information on health effects and symptoms.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media:**
- Water spray
- Foam
- Carbon dioxide (CO2)
- Dry powder

**Extinguishing media which shall not be used for safety reasons:**
- High volume water jet

#### 5.2. Special hazards arising from the substance or mixture

Fire or intense heat may cause violent rupture of packages.

#### 5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

### SECTION 6: Accidental release measures

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

Provide adequate ventilation. Wear personal protective equipment. Unprotected persons must be kept away.
6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Should not be released into the environment.

6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Pick for disposal in tightly closed containers

6.4. Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling:
Exhaust ventilation at the object is necessary.

Advice on protection against fire and explosion:
Normal measures for preventive fire protection.

Hygiene measures:
Take off all contaminated clothing immediately. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday. When using do not eat or drink.

7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions:
Store in original container. Keep containers tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)

no additional data available
SECTION 8: Exposure controls/personal protection

8.1. Control parameters

*Occupational exposure limits:*

<table>
<thead>
<tr>
<th>Components</th>
<th>Basis / Value type</th>
<th>Value / Form of exposure</th>
<th>Exceeding Factor</th>
<th>Remarks</th>
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</thead>
<tbody>
<tr>
<td>hydrogen peroxide solution</td>
<td>EH40 WEL</td>
<td>2,8 mg/m³ 2 ppm</td>
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<td></td>
</tr>
<tr>
<td>hydrogen peroxide solution</td>
<td>STEL</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>hydrogen peroxide solution</td>
<td>TWA</td>
<td>1,4 mg/m³ 1 ppm</td>
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<td></td>
</tr>
</tbody>
</table>

STEL - Short term exposure limit
TWA - Time weighted average

*DNEL/ PNEC-Values*

<table>
<thead>
<tr>
<th>Component</th>
<th>End-use / Impact</th>
<th>Exposure duration</th>
<th>Value</th>
<th>Exposure routes</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>hydrogen peroxide solution</td>
<td>Workers / Long-term systemic effects</td>
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<td>1,4 mg/m³</td>
<td>Inhalation</td>
<td></td>
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<tr>
<td>hydrogen peroxide solution</td>
<td>Workers / Acute systemic effects</td>
<td></td>
<td>3 mg/m³</td>
<td>Inhalation</td>
<td></td>
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<tr>
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<td>Consumers / Long-term systemic effects</td>
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<td>0,21 mg/m³</td>
<td>Inhalation</td>
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<td>hydrogen peroxide solution</td>
<td>Consumers / Acute systemic effects</td>
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<td>1,93 mg/m³</td>
<td>Inhalation</td>
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</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Environmental compartment / Value</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>hydrogen peroxide solution</td>
<td>Fresh water: 0,0126 mg/l</td>
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<tr>
<td>hydrogen peroxide solution</td>
<td>Marine water: 0,0126 mg/l</td>
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<tr>
<td>hydrogen peroxide solution</td>
<td>Sewage treatment plant: 4,66 mg/l</td>
<td></td>
</tr>
<tr>
<td>hydrogen peroxide solution</td>
<td>Fresh water sediment: 0,47 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>
Hydrogen peroxide solution <5%, stabilized

8.2. Exposure controls

Occupational exposure controls

The Personal Protective Equipment must be in accordance with EN standards: respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, safety shoes EN-ISO 20345.

Do not breathe vapours or spray mist.

Personal protective equipment

Respiratory protection:
In the case of vapour formation use a respirator with an approved filter.

Hand protection:
Glove material: Natural Latex
Break through time: > 480 min
Glove thickness: 1 mm
Combi-Latex 395
Gloves must be inspected prior to use.
Replace when worn.
Remarks: Supplementary note: The specifications are based on information and tests from similar substances by analogy.
Due to varying conditions (e.g. temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.
Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer recommends to use the chemical protective glove in practice not longer than 50% of the recommended permeation time.
Manufacturer’s directions for use should be observed because of great diversity of types.
Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

Eye protection:
Safety goggles

Skin and body protection:
Protective suit

Environmental exposure controls

Handle in accordance with local environmental regulations and good industrial practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Form : liquid

Colour : colourless

molecular weight : 34.01 g/mol

Boiling point/boiling range : no data available

Flash point : Not applicable

Ignition temperature : Not applicable

Vapour pressure : 31.1 hPa
at 30 °C

Density : 1.00 g/cm³

Water solubility : completely miscible

9.2 Other Information

no additional data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended storage conditions.

10.2. Chemical stability

No decomposition if used as directed.

10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4. Conditions to avoid

Keep away from heat.

10.5. Incompatible materials

Zinc
Powdered metals
Iron
Copper
Nickel
10.6. Hazardous decomposition products

no data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:
Acute toxicity estimate
Value: > 2.000 mg/kg
Method: Calculation method

Acute dermal toxicity:
no data available

Acute inhalation toxicity:
Acute toxicity estimate
Value: > 20 mg/l
Exposure time: 4 h
Method: Calculation method

Skin irritation:
no data available

Eye irritation:
no data available

Respiratory or skin sensitisation:
no data available

Aspiration hazard:
no data available

Other information:
no data available

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish:
no data available

Toxicity to aquatic plants:
no data available

Toxicity to aquatic invertebrates:
12.2. Persistence and degradability

*Biodegradability:*
The methods for determining biodegradability are not applicable to inorganic substances.

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

13.1. Waste treatment methods

*Product:*
Dispose according to legal requirements.

*Packaging:*
Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

*Further information:*
Provisions relating to waste:
EC Directive 2006/12/EC; 2008/98/EEC
Regulation No. 1013/2006

For personal protection see section 8.

SECTION 14: Transport information

ADR/RID
Not dangerous goods

IATA
Not dangerous goods

IMDG
Not dangerous goods
## SECTION 15: Regulatory information

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

**Poison Control Center**

<table>
<thead>
<tr>
<th>Country</th>
<th>Phone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Austria</td>
<td>+4314064343</td>
</tr>
<tr>
<td>Belgium</td>
<td>070 245245</td>
</tr>
<tr>
<td>Bulgaria</td>
<td>(+)35929154233</td>
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<tr>
<td>Croatia</td>
<td>(+3851)23-48-342</td>
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<tr>
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<tr>
<td>Czech Republic</td>
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<tr>
<td>Denmark</td>
<td>82121212</td>
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<tr>
<td>Estonia</td>
<td>16662; (+372)6269390</td>
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<tr>
<td>Finland</td>
<td>9471977</td>
</tr>
<tr>
<td>France</td>
<td>+33(0)145425959</td>
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<tr>
<td>Greece</td>
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<tr>
<td>Hungary</td>
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<tr>
<td>Iceland</td>
<td>5432222</td>
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<tr>
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<tr>
<td>Germany</td>
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<td>Bonn : 0228/19240</td>
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<td>+370532362052</td>
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<tr>
<td>Luxembourg</td>
<td>070245245; (+352)80002-5500</td>
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<td>030-2748888</td>
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<td>Norway</td>
<td>22591300</td>
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<td>Slovakia (NTIC)</td>
<td>+421 2 54 774 166</td>
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<tr>
<td>Spain</td>
<td>+34915620420</td>
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<tr>
<td>Sweden</td>
<td>112 (begär; Giftinformation): +46104566786</td>
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<tr>
<td>United Kingdom</td>
<td>no data available</td>
</tr>
</tbody>
</table>

**Other inventory information**

- US. Toxic Substances Control Act
  - On TSCA Inventory
- Australia. Industrial Chemical (Notification and Assessment) Act
  - On the inventory, or in compliance with the inventory
Hydrogen peroxide solution <5%, stabilized

000000020197

Version 1.1 Revision Date 30.04.2017

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)
All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List
On the inventory, or in compliance with the inventory

Korea. Toxic Chemical Control Law (TCCL) List
On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act
On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances
On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand
On the inventory, or in compliance with the inventory

15.2 Chemical safety assessment
A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Further information
All directives and regulations refer to amended versions.
Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

Abreviations:
EC European Community
CAS Chemical Abstracts Service
DNEL Derived no effect level
PNEC Predicted no effect level
vPvB Very persistent and very biaccumulative substance
PBT Persistent, bioaccumulative and toxic substance

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.
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