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

1.1 Product Identifier
   Product No 322151

1.2 Relevant identified uses of the substance or mixture and uses advised against
   Identified uses For Research Use Only. Not for diagnostic use.

1.3 Details of the supplier of the safety data sheet
   Supplier Advanced Cell Diagnostics
   Address 7707 Gateway Blvd. Newark, CA 94560
   Tel: (510) 576-8800

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
   Classification (EC 1272/2008)
      Physical and Chemical Not classified
      Human health Skin Sens. 1 – H317
      Environment Not classified
   Classification (1999/45/EEC) R43
   The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

2.2 Label elements
   Contains METHYL-2H or METHYL-4 (3:1) Mixture of EC No. 220-239-6
   Label In Accordance with (EC) No. 1272/2008

   Signal Word Warning
   Hazard Statements H317 May cause an allergic skin reaction.
   Precautionary Statements
      P280 Wear protective gloves/protective clothing/eye protection/face protection.
      P501 Dispose of contents/container in accordance with national regulations.
   Supplementary Precautionary Statements
      P272 Contaminated work clothing should not be allowed out of the workplace.
      P261 Avoid breathing vapor/spray
      P321 Specific treatment [see medical advice on this label.]
      P302+P352 IF ON SKIN: Wash with plenty of soap and water.
      P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
      P363 Wash contaminated clothing before reuse.

2.3 Other Hazards
   Not classified as PBT/vPvB by current EU criteria.
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Section 3.1: Mixtures

<table>
<thead>
<tr>
<th>CAS-No. 55965-84-9</th>
<th>EC No.:</th>
</tr>
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<tbody>
<tr>
<td>Classification (EC 1272/2008)</td>
<td>Classification (67/548/EEC)</td>
</tr>
<tr>
<td>Acute Tox. 3 – H301</td>
<td>T;R23/24/25</td>
</tr>
<tr>
<td>Acute Tox. 3 – H311</td>
<td>C;R34</td>
</tr>
<tr>
<td>Acute Tox. 3 – H331</td>
<td>R43</td>
</tr>
<tr>
<td>Skin Corr. 1B – H314</td>
<td>N;R50/53</td>
</tr>
<tr>
<td>Skin Sens. 1 – H317</td>
<td></td>
</tr>
<tr>
<td>Aquatic Acute 1 – H400</td>
<td></td>
</tr>
<tr>
<td>Aquatic Chronic 1 – H410</td>
<td></td>
</tr>
</tbody>
</table>

Hydrogen Peroxide Solution

<table>
<thead>
<tr>
<th>CAS-No. 7722-84-1</th>
<th>EC No.: 231-765-0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classification (EC 1272/2008)</td>
<td>Classification (67/548/EEC)</td>
</tr>
<tr>
<td>Ox. Liq. 1 – H271</td>
<td>R5</td>
</tr>
<tr>
<td>Acute Tox. 4 – H302</td>
<td>O;R8</td>
</tr>
<tr>
<td>Acute Tox. 4 – H332</td>
<td>C;R35</td>
</tr>
<tr>
<td>Skin Cor. 1A – H314</td>
<td>Xn;R20/22</td>
</tr>
<tr>
<td>STOT SE 3 – H335</td>
<td></td>
</tr>
</tbody>
</table>

The full text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID AND MEASURES

4.1 Description of first aid measures

General information
Treat symptomatically.

Inhalation
Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion
NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention if any discomfort continues.

Skin Contact
Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

Eye Contact
Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact
May cause skin sensitization.

4.3 Indication of any immediate medical attention and special treatment needed

Treat Symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Extinguishing Media
This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products
Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.
5.3 Advice for fire fighters

- Special Fire Fighting Procedures
  No specific fire fighting procedure given.
- Protective equipment for fire fighters
  Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2 Environmental Precautions

Avoid discharge into drains, water courses or onto the ground.

6.3 Methods and material for containment and cleaning up

Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer.

6.4 Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid spilling, skin and eye contact.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.
- Storage class
  Chemical storage.

7.3 Specific end user(s)

The identified uses for this product are detained in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSO...
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
   Appearance: Liquid

9.2 Other information
   Not available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
   There are no known reactivity hazards associated with this product.

10.2 Chemical stability
   Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions
   Not available.

10.4 Conditions to avoid
   Avoid excessive heat for prolonged periods of time. Avoid contact with strong oxidizers. Avoid contact with strong reducing agents.

10.5 Incompatible Materials
   Materials to avoid
   Strong oxidizing substances. Strong reducing agents.

10.6 Hazardous decomposition products
   In case of fire, toxic gases (CO, CO2, NOx) may be formed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
   Toxicological information
   No information available.
   Health warnings
   INHALATION: In high concentrations, vapors may irritate throat and respiratory system and cause coughing. INGESTION: May cause discomfort if swallowed. SKIN CONTACT: Liquid may irritate skin. EYE CONTACT: Spray and vapor in the eyes may cause irritation and smarting.
   Toxicological information on ingredients.

   HYDROGEN PEROXIDE SOLUTION … % (CAS: 7722-84-1)

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity
   No data available.

12.2 Persistence and degradability
   Degradability
   No data available

12.3 Bioaccumulative potential
   Bioaccumulative potential
   No data available on bioaccumulation

12.4 Mobility in soil
   Mobility
   No data available
   Surface tension
   Not determined.

12.5 Results of PBT and vPvB assessment
   Not classified as PBT/vPvB by current EU criteria.

12.6 Other adverse effects
   Not determined.
SECTION 13: DISPOSAL CONSIDERATIONS

General Information
Waste is classified as hazardous waste. Dispose to licensed waste disposal site in accordance with the local Waste Disposal Authority.

13.1 Waste treatment methods
Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

Road Transport Notes Not classified.
Rail Transport Notes Not classified.
Sea Transport Notes Not classified.
Air Transport Notes Not classified.

14.1 UN Number
Not applicable.

14.2 UN proper shipping name
Not applicable.

14.3 Transport hazard class(es)
Not applicable.

14.4 Packing group
Not applicable.

14.5 Environmental hazards
Environmentally Hazardous Substance/Marine Pollutant
No

14.6 Special precautions for user
Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

SECTION 15: REGULATORY INFORMATION

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

Statutory Instruments

Approved Code of Practice
Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

Guidance Notes
Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

EU Legislation

15.2 Chemical Safety Assessment
No chemical safety assessment has been carried out.
<table>
<thead>
<tr>
<th>Risk Phrases in Full</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R34</td>
<td>Causes burns.</td>
</tr>
<tr>
<td>R35</td>
<td>Causes severe burns.</td>
</tr>
<tr>
<td>R8</td>
<td>Contact with combustible material may cause fire.</td>
</tr>
<tr>
<td>R20/22</td>
<td>Harmful by inhalation and if swallowed.</td>
</tr>
<tr>
<td>R5</td>
<td>Heating may cause an explosion.</td>
</tr>
<tr>
<td>R37</td>
<td>Irritating to respiratory system.</td>
</tr>
<tr>
<td>R43</td>
<td>May cause sensitization by skin contact.</td>
</tr>
<tr>
<td>R23/24/25</td>
<td>Toxic by inhalation, in contact with skin and if swallowed.</td>
</tr>
<tr>
<td>R50/53</td>
<td>Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled.</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>H271</td>
<td>May cause fire or explosion; strong oxidizer.</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>H331</td>
<td>Toxic if inhaled.</td>
</tr>
<tr>
<td>H301</td>
<td>Toxic if swallowed.</td>
</tr>
<tr>
<td>H311</td>
<td>Toxic in contact with skin.</td>
</tr>
<tr>
<td>H410</td>
<td>Very toxic to aquatic life with long-lasting effects.</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life.</td>
</tr>
</tbody>
</table>

Disclaimer

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 process. Such information is, to the best of the company’s knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user’s responsibility to satisfy himself as to the suitability of such information for his own particular use.