1. **Product and Company Identification:**
   
   Trade name: **Ameclen (sodium hypochlorite 3% solution)**.
   
   Product Use: Antibacterial, bleaching agent, source of available chlorine, endodontic irrigation. For External Use Only. For Professional and Hospital Use Only.
   
   Manufacturer identification: Ameya, SAIF Zone-Sharjah, UAE.

2. **Composition:**

<table>
<thead>
<tr>
<th>S.No</th>
<th>Ingredient Name</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Sodium Hypochlorite</td>
<td>3%</td>
</tr>
<tr>
<td>02</td>
<td>Hydrogen peroxide</td>
<td>0.05%</td>
</tr>
<tr>
<td>03</td>
<td>Water</td>
<td>QS</td>
</tr>
</tbody>
</table>

3. **Hazards Identification:**

   Critical Hazards: Irritating to eyes and skin. Slightly hazardous in case of inhalation (lung sensitizer).

4. **First Aid Measures:**

   **Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

   **Skin Contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

   **Serious Skin Contact:** Wash with a disinfectant soap. Seek medical attention.

   **Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

   **Serious Inhalation:** Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

   **Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

   **Serious Ingestion:** Not available.
5. **Fire Fighting Measures**:

Flammable Properties: Not flammable.

Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or foam as appropriate for the surrounding material.

6. **Accidental Release Measures**:

Personal Precautions: Avoid direct contact with skin, eyes and clothing.

Precautions to protect environment: Prevent contamination of soil, drains and surface water.

Spill Clean-up: Wear suitable protective clothing and equipment. Vacuum or mop up liquid and place in a container suitable for chemical waste; avoid generation of aerosols. Place collected material into a suitable container for disposal. Thoroughly wash area with detergent and water. Dispose of all solid waste and wash and rinse with water in accordance with federal, state, and local regulations.

7. **Handling and Storage**:

Handling (Personnel): Do not get in eyes, on skin, or on clothing. Do not taste. Wash thoroughly after handling. Wash contaminated clothing after use. Use only with adequate ventilation.

Handling (Physical Aspects): Close container after each use.

Storage: Store in airtight container, in the dark. Keep container closed when not in use. Store at below 30°C.

8. **Exposure Controls/Personal Protection**:

Engineering Controls: Handle material under adequate ventilation. Keep container tightly closed when not in use.

Personal Protective Equipment: Wear safety glasses with side shields. Wear full-face protection when judged that the possibility exists for eye and face contact.

9. **Physical and Chemical Properties**:

Odor: Characteristic. Chlorine-like (Slight.)

Appearance: Colorless to light greenish yellow clear liquid.

Solubility: Easily soluble in cold water.

pH: 11.0 to 13.0

Specific Gravity (water=1): 1.02 to 1.17.
10. Stability and Reactivity:

Conditions to Avoid: Store away from heat; Sparks and/or Flames; Store out of direct sunlight.

Materials to Avoid: Strong acids; Strong oxidizing agents; Avoid alkali metals (eg. sodium);

Decomposition: Decomposition will not decompose under conditions of usual handling.

Stability and Reactivity: Slowly decomposes, evolving oxygen. Pressure can develop in sealed containers.

11. Toxicological Information:

Routes of Entry: Absorbed through skin. Eye contact. Inhalation. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): 5800 mg/kg [Mouse]. (Sodium hypochlorite).

Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified 3 (Not classifiable for human.) by IARC [Sodium hypochlorite]. MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. [Sodium hypochlorite]. Mutagenic for mammalian somatic cells. [Sodium hydroxide]. Contains material which may cause damage to the following organs: lungs, mucous membranes, skin, eyes.

Other Toxic Effects on Humans: Very hazardous in case of skin contact (irritant), of ingestion, . Hazardous in case of skin contact (corrosive), of eye contact (corrosive). Slightly hazardous in case of inhalation (lung sensitizer, lung corrosive).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: May affect genetic material (mutagenic) (Sodium hypochlorite)

Special Remarks on other Toxic Effects on Humans: Potential Health Effects: Can cause severe irritation and possible burns to skin and eyes. Eye contact may also cause corneal and conjunctival edema, conjunctival hemorrhages. Contact with skin may also cause vesicular eruptions and eczematoid dermatitis which becomes evident upon re-exposure. Prolonged or repeated eye contact may cause conjunctivitis. Ingestion can cause burns to the digestive tract. Symptoms may include: 1. pain and inflammation of the mouth, pharynx, esophagus, and stomach, 2. erosion of the mucous membranes (chiefly of the stomach), nausea, vomiting, choking, coughing, hemorrhage, 3. circulatory collapse with cold and clammy skin (due to methemoglobinemia), cyanosis, and shallow respirations, 4. confusion, delirium, coma, 5. edema of the pharynx, glottis, larynx with stridor and obstruction, 6. perforation of the esophagus, or stomach, with mediastinitis or peritonitis. Inhalation causes slight to severe respiratory tract irritation and delayed pulmonary edema. Prolonged or repeated inhalation may cause allergic respiratory reaction (asthma).
12. Ecological Information:
   
   Ecotoxicological Information: No information available.
   
   Chemical Fate Information: No information available.

13. Disposal Considerations:
   
   Do not discharge into drains or the environment, deposit to an authorized waste collection point. Disposal should be in accordance with local, state or national legislation.

14. Transport Information:
   
   DOT Classification: Class 8: Corrosive material
   
   Identification: Hypochlorite solution UNNA: 1791 PG: III
   
   Special Provisions for Transport: Not available.