1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product Name:** Qualitative Fit Testing Kit, Bitrex(TM) Solutions

**Product Number:** 99009-00

| Date Prepared: | 11/7/2002 |
| Manufacturer: | Kimberly-Clark Corporation 1400 Holcomb Bridge Road Roswell, GA 30076-2199 United States of America |
| Telephone: | MEDICAL EMERGENCY 1-877-561-6587 \nTRANSPORTATION EMERGENCY INFORMATION 1-800-424-9300 1-920-721-4757 |

**Product Use:** Respirator fit testing

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No./ EINECS-No.</th>
<th>%</th>
<th><strong>EU Classification (67/548/EEC):</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Denatonium benzoate (Bitrex(TM))</td>
<td>3734-33-6 / 223-095-2</td>
<td>&lt;5%</td>
<td>Xn, R22</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5/231-791-2</td>
<td>95%</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

See Section 16 for further information on EU Classification.

3. HAZARDS IDENTIFICATION

**Emergency Overview:** Clear, colorless, odorless liquid. Extreme bitter taste.

May cause mild eye irritation. May be harmful if swallowed.

**EU Classification (1999/45/EC):** Not classified as a dangerous substance or preparation.

**US OSHA Classification (29CFR1910.1200):** Not Hazardous

**Canadian WHMIS Classification:** Not a controlled product.

4. FIRST AID MEASURES

**Inhalation:** Move to fresh air. Seek medical advice if cough, shortness of breath or other respiratory problems occur.
**Skin contact:** Rinse with water. Seek medical advice if redness, swelling, itching or burning occurs.

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids. Obtain medical attention if irritation persists.

**Ingestion:** Call a physician or Poison Control Centre immediately. If victim is conscious, rinse mouth with a small amount of water. Never give anything by mouth to a person who is unconscious or drowsy.

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5. **FIRE-FIGHTING MEASURES**

**Flashpoint:** Not applicable

**Flammable Limits in Air % by Volume:**

- **LEL (Lower):** Not applicable
- **UEL (Upper):** Not applicable

**Suitable Extinguishing Media:** Use media suitable for surrounding materials.

**Special Fire Fighting Procedures:** Not required.

**Unusual Fire and Explosion Hazards:** None.

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6. **ACCIDENTAL RELEASE MEASURES**

Contain and collect with inert absorbent material and place in a suitable container for disposal.

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7. **HANDLING AND STORAGE**

Avoid contact with eyes. No special storage conditions required

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8. **EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure limit(s)**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Denatonium benzoate (Bitrex(TM))</td>
<td>None established</td>
</tr>
</tbody>
</table>

**Ventilation:** No special ventilation normally required.

**Respiratory Protection:** No personal respiratory protective equipment normally required.

**Protective Gloves:** Not required.

**Eye Protection:** Safety glasses or goggles recommended.
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance and Odor</td>
<td>Clear, colorless, odorless liquid. Extreme bitter taste.</td>
</tr>
<tr>
<td>Boiling point/range</td>
<td>212°F (100°C)</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific Gravity (water=1)</td>
<td>1.0</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor density (air=1)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Solubility</td>
<td>Complete</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water):</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate (Butyl acetate=1)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Percent Volatile by Volume (%)</td>
<td>95%</td>
</tr>
<tr>
<td>Volatile Organic Carbon Compounds (VOC) (g/L)</td>
<td>None.</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

**Stability:** Stable

**Conditions to Avoid:** None currently known.

**Materials to avoid:** None expected.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide.

**Hazardous Polymerization:** Does not occur.

11. TOXICOLOGICAL INFORMATION

**Symptoms/Effects of Overexposure:**

**Inhalation:** Inhalation of aerosol may cause irritation to the upper respiratory tract. Extreme bitter taste.

**Skin contact:** Prolonged skin contact may cause mild irritation in sensitive individuals.

**Eye contact:** May cause mild eye irritation.

**Ingestion:** May cause nausea, vomiting, diarrhea, dizziness, drowsiness and other symptoms of central nervous system depression. The material has a profoundly bitter taste so ingestion of large amounts is very unlikely.

**Chronic toxicity:** None expected.

**Medical Conditions Aggravated by Exposure:** None expected.
Carcinogenicity Data: None of the components of this product is listed as a carcinogen by IARC, NTP or OSHA.

Reproductive Toxicity: None currently known.

Acute Toxicity Values: Denatonium benzoate: LD50 oral rat 584 mg/kg

12. ECOLOGICAL INFORMATION

No data is currently available.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all state, local and federal regulations.

14. TRANSPORT INFORMATION

US DOT Shipping Description: Not regulated

IATA Shipping Description (Air): Not regulated

IMDG Shipping Description (Vessel): Not regulated

15. REGULATORY INFORMATION

US Regulations

EPA Toxic Substances Control Act (TSCA): All of the components of this product are listed on the TSCA Inventory or exempted from TSCA.

SARA 302 Listed Chemicals: None.

SARA 311/312 Hazard Categories: None.

SARA 313 This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under the SARA Section 313 (40 CFR 372): None.

California Proposition 65: This product does not contain chemicals listed per the Safe Drinking Water and Toxic Enforcement Act of 1986.

International Regulations

Canadian CEPA: All of the components are either listed on or exempted from the Domestic Substances List (DSL).

Canadian WHMIS Classification: Not a controlled product.

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

EU Labeling: None.
EU EINECS Status: All of the components of this product are listed on the EINECS Inventory or exempted from notification.

16. OTHER INFORMATION

HMIS Rating: Health 0 Fire 0 Reactivity 0

EU Classes and Risk Phrases for Reference (See Sections 2 and 3):
  - Xn - Harmful
  - R22 - Harmful if swallowed.

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