MATERIAL SAFETY DATA SHEET

Section 1: IDENTIFICATION

Acevide\textsuperscript{\textregistered}-C Use-Solution

Recommended Use: For high-level disinfection and/or sterilization of medical instruments

BEST SANITIZERS, INC.
P.O. Box 1360
Penn Valley, CA 95946
(888) 225-3267

BEST SANITIZERS, INC.
310 Providence Mine Rd. Suite 120
Nevada City, CA 95959
(888) 225-3267

CHEMTREC Toll-free 24 hour Emergency Telephone Number: (800) 424-9300

<table>
<thead>
<tr>
<th>LEGEND</th>
<th>Health</th>
<th>NFPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severe</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>Serious</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Moderate</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Slight</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Minimal</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Section 2: HAZARDS

Emergency Overview

DANGER
HARMFUL IF SWALLOWED

Do not get in eyes, on skin or on clothing. Wear protective eyewear (goggles, face shield or safety glasses) and rubber gloves when handling. Wash hands thoroughly with soap and water after handling.

Do not use with devices containing silver, copper, or brass.

Keep out of reach of children.

Potential short-term health effects

Routes of exposure

Eyes, Skin contact, Inhalation, Ingestion

Eyes

May cause irritation

Skin

May cause irritation

Inhalation

Excessive inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).

Ingestion

Ingestion is unlikely through the normal anticipated use of this product.

May cause stomach distress, nausea or vomiting.

Target organs

Eyes. Respiratory system. Skin.

Chronic effects

Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms

Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Section 3: COMPOSITION INFORMATION

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS No</th>
<th>EC No</th>
<th>Proportion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>231-791-2</td>
<td>&lt; 95 %</td>
</tr>
<tr>
<td>Acetic Acid</td>
<td>64-19-7</td>
<td>200-580-7</td>
<td>&lt; 2 %</td>
</tr>
<tr>
<td>Peracetic Acid</td>
<td>79-21-0</td>
<td>201-186-8</td>
<td>&lt; 0.5 %</td>
</tr>
<tr>
<td>Potassium nitrate</td>
<td>7757-79-1</td>
<td>231-818-8</td>
<td>&lt; 0.5 %</td>
</tr>
<tr>
<td>Tetrasodium etidronate</td>
<td>3794-83-0</td>
<td>223-267-7</td>
<td>&lt; 0.5 %</td>
</tr>
<tr>
<td>Trisodium phosphate</td>
<td>7601-54-9</td>
<td>231-509-8</td>
<td>&lt; 0.5 %</td>
</tr>
</tbody>
</table>

Note: Once the Acevide-C Solutions are mixed, the resulting solution will be contained in the unit and not easily accessed.
**Section 4: FIRST AID**

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye (Contact)</strong></td>
<td>Hold eyelids apart and flush the eye continuously with running water for 5-15 minutes.</td>
</tr>
<tr>
<td><strong>Skin (Contact)</strong></td>
<td>Remove contaminated clothing and flush skin and hair thoroughly with running water.</td>
</tr>
<tr>
<td><strong>Inhalation (Breathing)</strong></td>
<td>If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.</td>
</tr>
<tr>
<td><strong>Ingestion (Swallowing)</strong></td>
<td>DO NOT induce vomiting. For advice, contact a doctor.</td>
</tr>
<tr>
<td><strong>Advice to Doctor</strong></td>
<td>Treat symptomatically for neutral detergent.</td>
</tr>
<tr>
<td><strong>First Aid Facilities</strong></td>
<td>Ensure an eye wash and safety shower are available and ready for use.</td>
</tr>
<tr>
<td><strong>Additional Information</strong></td>
<td>No aggravated medical conditions are known to be caused by exposure to the product.</td>
</tr>
</tbody>
</table>

**Section 5: FIREFIGHTING MEASURE**

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Suitable Extinguishing Media</strong></td>
<td>Solution does not burn. Use dry chemical powder, foam, water spray or fog type extinguishers.</td>
</tr>
<tr>
<td><strong>Hazards From Combustion Products</strong></td>
<td>Toxic and/or irritating fumes including carbon monoxide and carbon dioxide may be emitted.</td>
</tr>
<tr>
<td><strong>Precautions For Fire Fighters and Special Protective Equipment</strong></td>
<td>Keep containers or equipment holding Acecide-C cool by spraying with water.</td>
</tr>
</tbody>
</table>

**Section 6: ACCIDENTAL RELEASE MEASURES**

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
</table>
| **Spills / Clean up** | For small volumes (approximately less than 1L) - Personal protective equipment should be worn when cleaning up spills. Restrict access to area until completion of cleanup. Stop leak if safe to do so. Collect and dispose of spilled material according to local regulations. Wash away remnants with copious amounts of cold water.  
In the unlikely event of breach of multiple containers, contain spill with absorbent material, such as sand, vermiculite or other inert material. Prevent spill from entering sewers or waterways. Collect and dispose of spilled material according to local regulations. Wash away remnants with copious amounts of cold water. Clean area by working from the periphery to the centre of spill or from the edge of the room to the centre. |

**Section 7: HANDLING AND STORAGE**

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
</table>
| **Precautions for Safe Handling** | Product is intended for the high-level disinfection and sterilization of medical instruments. Any non-intended or non-authorized use of this product may result in personal injury or damage to equipment.  
Do not manually open container.  
**When used in an automatic endoscope reprocessor, do not open machine while in use.**  
Wash hands and face thoroughly after handling and before work breaks, eating, drinking, smoking and using toilet facilities.  
Do not use with chlorine-based products. The product is acidic in nature and reaction with chlorine-based products may produce poisonous chlorine gas. |
| **Conditions for Safe Storage** | Store in a cool, dry, well ventilated area away from direct sunlight and incompatible materials. Keep container tightly sealed. Store between 0°C and 25°C. Note that storage at higher temperatures may reduce product use life. Store unused Acecide-C in the upright position following instructions on the package. |
Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

### Exposure Standards

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS No</th>
<th>ES-TWA</th>
<th>ES-STEI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen Peroxide</td>
<td>7722-84-1</td>
<td>1 ppm 1.4 mg/m³</td>
<td>Not available</td>
</tr>
<tr>
<td>Acetic Acid</td>
<td>64-19-7</td>
<td>10 ppm 25 mg/m³</td>
<td>15 ppm 37 mg/m³</td>
</tr>
</tbody>
</table>

### Biological Limit Values

Not available.

### Engineering Controls

Ensure adequate ventilation to keep airborne concentrations below exposure standards.

### Personal Protective Equipment

- **Eye/face protection** – Wear safety glasses to prevent eye contact.
- **Skin protection** – Use nitrile rubber gloves to prevent skin contact.
- **Respiratory protection** – Respirator is not usually necessary, but if product is irritating, use a respirator suitable for organic vapours.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Clear colourless liquid

### Boiling Point

Not available

### Odour

Characteristic

### Freezing Point

Not available

### pH

3.0 - 4.0

### Solubility

Soluble in water.

### Specific Gravity

1.0

### Flash Point

Not Applicable

### Vapour Pressure

Not Available

### Upper and Lower Flammability limits (in air)

Not Applicable

### Vapour Density

Not Available

### Ignition Temperature

Not Applicable

Section 10: STABILITY AND REACTIVITY

### Chemical Stability

Stable under normal ambient storage conditions.

### Conditions to avoid

Avoid high temperatures (store between 0°C and 25°C). Protect against physical damage. Do not mix with other chemicals unless instructed to for disposal purposes.

### Incompatible materials

Reducing agents and metals (iron, copper, silver, brass, etc.).

### Hazardous decomposition products

None known.

### Hazardous reactions

Do not use with chlorine-based products. The product is acidic in nature and reaction with chlorine-based products may produce poisonous chlorine gas.

Section 11: TOXICOLOGICAL INFORMATION

### HEALTH EFFECTS

**Acute**

**Swallowed**

Considered an unlikely route of entry in commercial / industrial environments. May be irritating to gastro-intestinal tract.

**Eye**

May cause irritation and reddening.

**Skin**

May cause irritation.

**Inhaled**

Inhalation of mist may cause irritation.
Chronic
Swallowed  No effects known.
Eye        No effects known.
Skin       No effects known.
Inhalation No effects known.

TOXICITY DATA
Peracetic acid  LD₅₀ 210mg/kg (oral, mouse)  RTECS SD8750000
Hydrogen peroxide  LD₅₀ 1518mg/kg (oral, rat)  RTECS MX0890000
Acetic acid      LD₅₀ 3310mg/kg (oral, rat)   RTECS AF1225000
Potassium nitrate LD₅₀ 3015mg/kg (oral, rabbit)
Tetrasodium etidronate  LD₅₀ >2000mg/kg (rat)
Trisodium phosphate  LD₅₀ 1700mg/kg (oral, rat)
            LD₅₀ 2380mg/kg (oral, mouse)
            LD₅₀ 2500mg/kg (oral, rabbit)

Section 12: ECOLOGICAL INFORMATION
Ecotoxicity  Not available.
Persistence and degradability Not available.
Mobility     Not available.

Section 13: DISPOSAL CONSIDERATIONS
Disposal method Before disposal, check to see if the wastewater conforms to the local, federal, state and national standards (for pH, BOD, COD and other measures). Check with your local Publicly Owned Treatment Works (POTW) to determine if peracetic acid solutions like Acecide-C Use-Solution can be disposed of in the sanitary sewer system. Some POTWs may prohibit the disposal of peracetic acid solutions in the sanitary sewer or may require dilution with copious amounts of water and/or neutralization prior to disposal. In most cases, Acecide-C Use-Solution can be disposed of direct to drain but there may be exceptions.

Section 14: TRANSPORT INFORMATION
Acecide-C Use-Solution will not be transported.
Not classified as Dangerous Goods by the criteria of the European Transportation Law, including the following regulations: ADR, RID, ADNR, IMDG and ICAO/IATA.
UN Number        Not applicable.
UN Proper Shipping Name  Not applicable.
Class and subsidiary risk Not applicable.
Packing Group    Not applicable.
Special precautions for user Not applicable.
Hazchem Code     Not applicable.

Section 15: REGULATORY INFORMATION
Not classified as hazardous by the criteria of EG directive 67/548/EEC.

Section 16: OTHER INFORMATION
Acecide-C Use-Solution is the combined result of mixing Acecide-C Solution 1, with Acecide-C Solution 2 and water. Once the Acecide-C Solutions are mixed and diluted, the resulting Use-Solution should be handled in accordance with this Material Safety Data Sheet.

For further safety information please contact Best Sanitizers Inc. 888-225-3267