1. PRODUCT IDENTIFICATION

1.1. Product Identifiers

Product name: InVade™ Bio Cleaner™

1.2. Other Means of Identification

Product synonyms: none

1.3. Recommended Uses/Restrictions to Use

Uses: Cleaning concentrate utilizing nonpathogenic microbial organisms to digest and remove organic waste from a variety of surfaces and hard to reach places

Restrictions: See product label for details

1.4. Supplier Details

Company: Rockwell Labs Ltd
1257 Bedford Avenue
North Kansas City, MO 64116-4308
USA

Telephone: 1 816-283-3167

1.5. Emergency Contact

Outside normal business hours
Emergency Phone #: 1 800-424-9300 (USA & Canada)
1 703-527-3887 (Outside USA & Canada)

2. HAZARDS IDENTIFICATION

2.1. Classification of Substance or Mixture

none

2.2. GHS label elements, including precautionary statements

Pictogram(s): none

Signal word: none

Hazard statement(s): none

Precautionary statement(s): none

2.3. Other hazards which do not result in classification

none
3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixtures

Hazardous component(s) or components of note:

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Contains (% w/w)</th>
<th>CAS-No.</th>
<th>Hazard Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nonpathogenic bacillus bacteria</td>
<td>&gt;1 million cfu/gallon</td>
<td>-----</td>
<td>none</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice
Consult a physician or poison control center. Provide this safety data sheet to medical personnel. Move out of hazardous areas.

If inhaled
Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible. Call a poison control center or doctor for further treatment advice.

In case of skin contact
Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

In case of eye contact
Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If swallowed
Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

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

None known

4.3. Indication of any immediate medical attention and special treatment needed, if necessary

None known

5. FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. Specific hazards arising from the chemical

Oxides of carbon, nitrogen, and sulfur.

5.3. Special protective equipment and precautions for fire fighters

Wear self contained breathing apparatus for firefighting if deemed necessary.

Additional information: none.

5.4. Further information
6. **ACCIDENTAL RELEASE MEASURES**

6.1. **Personal precautions, protective equipment and emergency procedures**
Avoid contact with spilled product and contaminated surfaces. Evacuate personnel to safe areas during emergencies. For safe handling instructions see section 7. For proper PPE see section 8.

6.2. **Environmental precautions**
Prevent further leakage or spillage if safe to do so.

6.3. **Methods and materials for containment and cleaning up**
Wipe up any spilled material and dispose of according to instructions in section 13. Wash contaminated surfaces with soap and water. If required, clean surface with bleach or quaternary ammonia disinfectant.

7. **HANDLING AND STORAGE**

7.1. **Precautions for safe handling**
Handle in accordance with good industrial hygiene practices. For additional precautions see section 2.2

7.2. **Conditions for safe storage, including any incompatibilities**
Store in a cool dry place. Store in original container. Do not store where children or animals may gain access.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1. **Control parameters**
Components with workplace parameters

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>none</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
</tbody>
</table>

8.2. **Appropriate engineering controls**
Ensure relevant engineering controls are employed to prevent exceeding threshold values for the listed control parameters in section 8.1.

8.3. **Individual protection measures, such as personal protective equipment**
In normal use and handling conditions refer to the product label for required PPE. In all other cases the following recommendations would apply.

**Eye/face protection**
Safety glasses or other similar eye protection conforming to ANSI Z87.1 standards recommended when handling product.

**Skin protection**
Chemical resistant nitrile rubber or similarly compatible gloves recommended when handling product. Dispose of contaminated gloves after use in accordance with applicable local and state regulations. Wash exposed skin with soap and water immediately. Wash all contaminated clothing prior to reuse.

**Respiratory protection**
Not required under normal use conditions.

**Thermal hazards**
None known
9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

- Appearance; Orange liquid
- Odor; Citrus
- Odor threshold; No data available
- pH; 6.0 – 7.0 (25 °C)
- Melting point/freezing point; No data available
- Initial boiling point and boiling range; No data available
- Flash point; > 200 °F (93 °C)
- Evaporation rate; No data available
- Flammability (solid, gas); No data available
- Upper/lower flammability or explosive limits; No data available
- Vapor pressure; No data available
- Vapor density; No data available
- Relative density; 0.99 g/ml
- Solubility; Soluble in water
- Partition coefficient: n-octanol/water; No data available
- Auto-ignition temperature; No data available
- Decomposition temperature; No data available
- Kinematic Viscosity; Similar to that of water

9.2. Additional Information

No data available

10. STABILITY AND REACTIVITY

10.1. Reactivity

No data available

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Exposure to excessive heat.

10.5. Incompatible materials

10.6. Hazardous decomposition products
Other decomposition products – no data available
In the event of a fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Toxicity
LD50 Oral – Rat – > 5000 mg/kg
LD50 Dermal – Rat – > 5000 mg/kg
LD50 Inhalation – no data available

Skin corrosion/irritation
Not a skin irritant

Serious eye damage/irritation
Not an eye irritant

Respiratory or skin sensitization
Not a known sensitizer

Germ cell mutagenicity
Not a known mutagen

Carcinogenicity
IARC: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.
NTP: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.
OSHA: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

Reproductive toxicity
Not a known reproductive toxicant

Specific target organ toxicity – single exposure
No data available

Specific target organ toxicity – repeated exposure
No data available

Aspiration hazard
No data available

11.2. Other information
No data available

12. ECOLOGICAL INFORMATION

12.1. Toxicity
Toxicity to fish no data available
10. Toxicity to daphnia and other aquatic invertebrates
   10.2. Persistence and degradability
   No data available
   10.3. Bioaccumulative potential
   No data available
   10.4. Mobility in soil
   No data available
   10.5. Other adverse effects
   No data available

13. DISPOSAL CONSIDERATIONS

   The best disposal method is to use the entire quantity per label directions. If it is necessary to dispose of unused material then follow the label instructions and relevant local, state and federal waste disposal guidelines.
   Product Disposal:
   Do not contaminate water, food or feed by storage or disposal.
   Packaging Disposal:
   If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency or 1-800-CLEANUP which is managed as a public-private partnership.
   See section 8 for proper PPE and precautionary handling measures.

14. TRANSPORT INFORMATION

   DOT
   Not dangerous goods
   IMDG
   Not dangerous goods
   IATA
   Not dangerous goods

15. REGULATORY INFORMATION

   SARA 302 Components
   No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
   SARA 313 Components
   This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
   SARA 311/312 Hazards
   None
   California Proposition 65 Components
   This product does not contain any chemicals known to the state of California to cause cancer, birth defects, or reproductive harm.
TSCA
All components of this product are listed, exempted, or excluded from listing on the U.S. Toxic Substances Control Act chemical substance inventory.

16. OTHER INFORMATION

Acronyms and abbreviations used
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50</td>
<td>Lethal Dose, 50%</td>
</tr>
<tr>
<td>OECD</td>
<td>Organization for Economic Cooperation and Development</td>
</tr>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>ACGIH</td>
<td>American Conference of Industrial Hygienists</td>
</tr>
<tr>
<td>NTP</td>
<td>National Toxicology Program</td>
</tr>
<tr>
<td>OSHA</td>
<td>Occupational Safety and Health Administration</td>
</tr>
<tr>
<td>DOT</td>
<td>Department of Transportation</td>
</tr>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Goods</td>
</tr>
<tr>
<td>IATA</td>
<td>International Air Transport Association</td>
</tr>
<tr>
<td>SARA</td>
<td>Superfund Amendments and Reauthorization Act</td>
</tr>
<tr>
<td>TSCA</td>
<td>Toxic Substances Control Act</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>Chemical Abstract Services - Number</td>
</tr>
<tr>
<td>PPE</td>
<td>Personal Protective Equipment</td>
</tr>
<tr>
<td>HMIS</td>
<td>Hazardous Materials Identification System</td>
</tr>
<tr>
<td>NFPA</td>
<td>National Fire Protection Association</td>
</tr>
<tr>
<td>PPM</td>
<td>Parts Per Million</td>
</tr>
</tbody>
</table>

Hazard Rating System Crossover

<table>
<thead>
<tr>
<th>HMIS Rating</th>
<th>NFPA Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Hazard:</td>
<td>1</td>
</tr>
<tr>
<td>Flammability:</td>
<td>0</td>
</tr>
<tr>
<td>Reactivity:</td>
<td>0</td>
</tr>
</tbody>
</table>

Preparation information

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Version: 1.1
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Reason for revision: Updated formatting

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