1. PRODUCT IDENTIFICATION

1.1. Product Identifiers
Product name : InVade™ Hot Spot™

1.2. Other Means of Identification
Product synonyms : none

1.3. Recommended Uses/Restrictions to Use
Uses : Ready to use foaming aerosol utilizing nonpathogenic microbial organisms to digest and remove organic waste from drains and other hard to reach areas
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
Aerosol (Category 3)

2.2. GHS label elements, including precautionary statements
Pictogram(s) : none

Signal word : Warning

Hazard statement(s) : H229
Pressurized container: may burst if heated

Precautionary statement(s) : P210
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P251
Do not pierce or burn, even after use.

P410 + 412
Protect from sunlight. Do not expose to temperatures exceeding 50 C/122 °F.
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>
<tr>
<td>Isobutane</td>
<td>3</td>
<td>75-28-5</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
No data available

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/PERSOAL 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>Isobutane</td>
<td>75-28-5</td>
<td></td>
<td>TWA 1,000 ppm</td>
<td>ACGIH (TLV)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TWA 800 ppm (1900 mg/m³)</td>
<td>NIOSH REL</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. Chemical cartridge respirator with organic vapor cartridge recommended when risk assessment shows need for air-purifying respirators.

**Thermal hazards**
None known

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance;</td>
<td>White foam</td>
</tr>
<tr>
<td>Odor;</td>
<td>Citrus</td>
</tr>
<tr>
<td>Odor threshold;</td>
<td>No data available</td>
</tr>
<tr>
<td>pH;</td>
<td>6.5 – 7.5 (25 °C)</td>
</tr>
<tr>
<td>Melting point/freezing point;</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range;</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point;</td>
<td>&gt; 200 °F (93 °C)</td>
</tr>
<tr>
<td>Evaporation rate;</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas);</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits;</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure;</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor density;</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density;</td>
<td>0.99 g/ml</td>
</tr>
<tr>
<td>Solubility;</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water;</td>
<td>No data available</td>
</tr>
</tbody>
</table>
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 temperatures above 50 °C (122 °F).

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
Toxicity to daphnia no data available
and other aquatic invertebrates

12.2. Persistence and degradability
No data available

12.3. Bioaccumulative potential
No data available

12.4. Mobility in soil
No data available

12.5. 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

LD50 Lethal Dose, 50%
OECD Organization for Economic Cooperation and Development
IARC International Agency for Research on Cancer
ACGIH American Conference of Industrial Hygienists
NTP National Toxicology Program
OSHA Occupational Safety and Health Administration
DOT Department of Transportation
IMDG International Maritime Dangerous Goods
IATA International Air Transport Association
SARA Superfund Amendments and Reauthorization Act
TSCA Toxic Substances Control Act
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