1. PRODUCT IDENTIFICATION

1.1. Product Identifiers
Product name: InVade™ Bio Bullet™ Mini

1.2. Other Means of Identification
Product synonyms: InVade™ Bio Bullet™ BT

1.3. Recommended Uses/Restrictions to Use
Uses: Slow dissolve block containing nonpathogenic bacillus bacteria for use in digesting and controlling organic waste buildup
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
Skin irritant: Category 2
Eye Irritant: Category 2A
Acute Aquatic Toxicity: Category 2
Chronic Aquatic Toxicity: Category 3

2.2. GHS label elements, including precautionary statements
Pictogram(s)

Signal word: Warning

Hazard statement(s)
H315 Causes skin irritation
H319 Causes serious eye irritation
H401 Toxic to aquatic life
H412 Harmful to aquatic life with long lasting effects

Precautionary statement(s)
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/eye protection/face protection.
P321 Specific treatment (see supplemental first aid instructions on this label).
P302 + P352 IF ON SKIN: Wash with plenty of water.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents in accordance with local/state/federal regulations.

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</td>
<td>&gt;1 million cfu/gram</td>
<td>-----</td>
<td>none</td>
</tr>
<tr>
<td>bacteria</td>
<td></td>
<td></td>
<td>Skin irritant: (Cat. 2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irritant: (Cat. 2A)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Aquatic Tox. (Cat. 2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Chronic Aquatic Tox. (Cat. 3)</td>
</tr>
<tr>
<td>Proprietary Ingredients</td>
<td>45</td>
<td>-----</td>
<td></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 five 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
No data available

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. 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.

Environmental precautions
Prevent further leakage or spillage if safe to do so. Prevent release to storm drains or open bodies of water.

6.2. Methods and materials for containment and cleaning up
Collect/wipe up any spilled material and dispose of waste according to local and state regulations. 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. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. For additional precautions see section 2.2

Conditions for safe storage, including any incompatibilities
Store in 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 solid
- Odor; Orange citrus
- Odor threshold; No data available
- pH; No data available
- Melting point/freezing point; No data available
- Initial boiling point and boiling range; No data available
- Flash point; No data available
- Evaporation rate; No data available
- Flammability (solid, gas); No data available
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 120 °F (49 °C) for extended periods of time. Exposure to excessive humidity.

10.5. Incompatible materials
Strong oxidizing agents. Strong reducing agents.

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 Estimate (ATE)
LD50 Oral – Rat – >2400 mg/kg
LD50 Dermal – Rat – > 2900 mg/kg
LD50 Inhalation – no data available
Skin corrosion/irritation
No data available
Serious eye damage/irritation
No data available
Respiratory or skin sensitization

No data available
No data available

**Germ cell mutagenicity**
No data available

**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**
No data available

**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 Estimate**

**Acute**
Toxicity to fish
LC50 – Lepomis macrochirus (Bluegill) – 5.31 mg/l (96 hr)
Toxicity to daphnia
EC50 – Daphnia magna (Water flea) – 9.06 mg/l (48 hr)
Toxicity to other aquatic invertebrates

**Chronic**
Toxicity to fish
NOEC – Oncorhynchus mykiss (Rainbow trout) – 0.23 mg/l (72 d)

**12.2. Persistence and degradability**
Readily biodegradable

**12.3. Bioaccumulative potential**
No data available

**12.4. Mobility in soil**
No data available

**12.5. Other adverse effects**
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption) are expected from this product.
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**
Immediate (Acute) Health Hazard

**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
CAS-No.             Chemical Abstract Services - Number
PPE                 Personal Protective Equipment
HMIS                Hazardous Materials Identification System
NFPA                National Fire Protection Association
PPM                 Parts Per Million
ANSI                American National Standards Institute
NOEC                No Observed Effect Concentration

Hazard Rating System Crossover

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

Preparation information

Prepared by: Rockwell Labs Ltd
Version: 1.1
Revision Date: November 29, 2018
Reason for revision: Updated use directions

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