

# 1. PRODUCT IDENTIFICATION

1.1. Product Identifiers

Product name : InVade<sup>TM</sup> Hot Spot<sup>TM</sup>

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

Gases Under Pressure: Compressed gas

## 2.2. GHS label elements, including precautionary statements

Pictogram(s)



Signal word Warning

Hazard statement(s)

H229 Pressurized container: may burst if heated

H280 Contains gas under pressure, may explode if heated





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Precautionar	y statement(	Ś	)

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.

P403 Store in well ventilated place.

P410 + 412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Store in a well ventilated place.

## 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:

Chemical Identity	Contains (% w/w)	CAS-No.	Hazard Classification
Nonpathogenic bacillus bacteria	>1 million cfu/gallon		none
Isobutane	3	75-28-5	Compressed Gas

## 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.



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# 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, out of direct sunlight. Store in original container in well ventilated place. Do not store where children or animals may gain access.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1. Control parameters

Components with workplace parameters

Component	CAS-No.	Value	Control parameters	Basis
		TWA	1,000 ppm	ACGIH (TLV)
Isobutane	75-28-5	TWA	800 ppm (1900 mg/m³)	NIOSH REL





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# 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.

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#### Thermal hazards

None known

### 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1. Information on basic physical and chemical properties

Appearance;	White foam
Odor;	Citrus
Odor threshold;	No data available
pH;	6.5 – 7.5 (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





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Solubility; Soluble in water

Partition coefficient: n-

No data available

octanol/water;

Auto-ignition temperature; No data available

Decomposition temperature; No data available

Kinematic Viscosity; 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 50 °C (122 °F).

## 10.5. Incompatible materials

Strong oxidizing agents. Strong reducing agents. Disinfecting 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**

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



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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

## 13.1. Disposal Methods.

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:



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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

UN number: 1950 Class: 2.2 Packing Group:

Proper shipping name: Aerosols, non-flammable, (each not exceeding 1 L capacity), LTD QTY

**IMDG** 

UN number: 1950 Class: 2.2 Packing Group:

Proper shipping name: Aerosols, non-flammable, (each not exceeding 1 L capacity), LTD QTY

**IATA** 

UN number: 1950 Class: 2.2 Packing Group:

Proper shipping name: Aerosols, non-flammable, (each not exceeding 1 L capacity), LTD QTY

## 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

Acute: Sudden Release of Pressure

# 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



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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

# **Hazard Rating System Crossover**

HMIS Rating		NFPA Rating		NFPA 30 Aerosol Classification
Health Hazard:	1	Health Hazard:	1	
Flammability:	0	Flammability:	0	Level 1 Aerosol
Reactivity:	0	Reactivity:	0	

# Preparation information

Prepared by: Rockwell Labs Ltd

Version: 1.3

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Reason for revision: Added NFPA 30 Aerosol Classification

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