



InVadeTM Hot SpotTM

1. PRODUCT IDENTIFICATION					
1.1.	Product Identifiers				
	Product name	:	InVade TM Hot Spot TM		
1.2.	Other Means of Iden	ntification	L		
	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 H280

Pressurized container: may burst if heated Contains gas under pressure, may explode if heated



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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.
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/m ³)	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.

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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Safety Data Sheet

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;	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 identifie					
		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.	2. Other information					
	No data availabl	le				

12. ECOLOGICAL INFORMATION

12.1. Toxicity

12.2.

Toxicity to fish	no data available	
Toxicity to daphnia	no data available	
and other aquatic		
invertebrates		
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. <u>Product Disposal:</u>

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: 1950Class: 2.2Packing Group:Proper shipping name:Aerosols, non-flammable, (each not exceeding 1 L capacity), LTD QTYIMDGUN number: 1950Class: 2.2Packing Group:Proper shipping name:Aerosols, non-flammable, (each not exceeding 1 L capacity), LTD QTYIATAUN number: 1950Class: 2.2Packing Group:Proper shipping name:Aerosols, non-flammable, (each not exceeding 1 L capacity), LTD QTYIATAUN number: 1950Class: 2.2Packing 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
Revision Date:	July 12, 2018
Reason for revision:	Added NFPA 30 Aerosol Classification

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