## MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

CF0010 **Product number** 

**Product name Germ-Bac Disinfectant Deodorant Spray** 

**Effective date** 02-Sep-2011 **Brady Industries Company information** 

Las Vegas, NV 89118 United States

Company phone General Assistance 702-876-3990

800-424-9300 **Emergency telephone US Emergency telephone outside US** 703-527-3887

Version # 01

### 2. Hazards Identification

Aerosol. FLAMMABLE **Emergency overview** 

CONTENTS UNDER PRESSURE.

Will be easily ignited by heat, spark or flames. Contact with eyes may cause irritation.

Prolonged exposure may cause chronic effects.

Potential health effects

Eye contact. Skin contact. Ingestion. Routes of exposure Moderately irritating to the eyes. **Eyes** 

Harmful if absorbed through the skin. Repeated or prolonged skin contact may cause Skin

allergic reactions with susceptible persons.

Inhalation Intentional misuse by concentrating and inhaling the product can be harmful or fatal.

Prolonged inhalation may be harmful.

Ingestion Exposure by ingestion of an aerosol is unlikely. May cause delayed lung damage.

Components of the product may be absorbed into the body by ingestion.

**Target organs** Blood. Central nervous system. Lungs.

Unconsciousness. Cyanosis (blue tissue condition, nails, lips, and/or skin). May cause **Chronic effects** 

central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May

cause delayed lung injury.

Discomfort in the chest. Narcosis. Cyanosis (blue tissue condition, nails, lips, and/or Signs and symptoms

skin). Coughing. Jaundice. Defatting of the skin. Skin irritation. Corneal damage.

# 3. Composition / Information on Ingredients

Components	CAS#	Percent
Ethyl Alcohol	64-17-5	40 - 50
n-Butane	106-97-8	15 - 20
Propane	74-98-6	5 - 8
Methanol	67-56-1	1 - 3
Non-hazardous and other components below reportable levels		20 - 40

## 4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Call a physician or Poison Control

Center immediately.

Skin contact Take off immediately all contaminated clothing. Wash off immediately with plenty of

water for at least 15 minutes. Get medical attention if irritation develops and persists.

Inhalation Move to fresh air. Get medical attention if symptoms persist.

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Ingestion
Notes to physician

In the unlikely event of swallowing contact a physician or poison control center.

Keep victim under observation.

## 5. Fire Fighting Measures

Flammable properties

Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may

cause fire or explosion hazard.

**Extinguishing media** 

Suitable extinguishing media

**Protection of firefighters** 

Foam. Dry chemical. Carbon dioxide (CO2).

Protective equipment and precautions for firefighters

In case of fire and/or explosion do not breathe fumes. Containers should be cooled with water to prevent vapor pressure build up.

#### 6. Accidental Release Measures

**Methods for containment** 

Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the

leak is irreparable. Stop the flow of material, if this is without risk.

Methods for cleaning up Use a non-c

Use a non-combustible material like vermiculite, sand or earth to soak up the product

and place into a container for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

## 7. Handling and Storage

Handling

Pressurized container: Do not pierce or burn, even after use. Do not smoke while using or until sprayed surface is thoroughly dry. Use only in area provided with appropriate exhaust ventilation. Do not use if spray button is missing or defective. Do not re-use empty containers. Do not get this material in contact with eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin.

**Storage** 

Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Do not handle or store near an open flame, heat or other sources of ignition. Avoid exposure to long periods of sunlight. Store in cool place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. Level 2 Aerosol.

## 8. Exposure Controls / Personal Protection

## **Exposure limits**

**ACGIH** 

Components	CAS#	TWA	STEL	Ceiling
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm	Not established
n-Butane	106-97-8	1000 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
Methanol	67-56-1	200 ppm	250 ppm	Not established

#### **OSHA**

Components	CAS#	TWA	STEL	Ceiling
Ethyl Alcohol	64-17-5	1000 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
Methanol	67-56-1	200 ppm	Not established	Not established

### Personal protective equipment

Eye / face protection

Do not get in eyes. Chemical goggles are recommended.

**Skin protection** Chemical resistant gloves.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

### 9. Physical & Chemical Properties

**Appearance** Compressed liquefied gas. **Boiling point** 136.4 °F (57.8 °C) estimated

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**Color** colorless

**Density** 0.7516 g/cm3 estimated **Flammability (HOC)** 25.0491 kJ/g estimated

Flash back Yes

Flash point -156 °F (-104.4 °C) Propellant

Form Aerosol.

Freezing point Not available

Odor fruity alcoholic

pH 9.5 - 10.5

Physical state Liquid.

**Pressure** 75 - 90 psig @ 70F

Solubility Partially Specific gravity 0.7517

# 10. Chemical Stability & Reactivity Information

Chemical stabilityStable at normal conditions.Conditions to avoidHeat, flames and sparks.Incompatible materialsStrong oxidizing agents.Hazardous decomposition productsMay include oxides of nitrogen.

# 11. Toxicological Information

Acute effects Acute LC50: 81 mg/l/4h estimated, Rat, Inhalation

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

Ethyl Alcohol 64-17-5 Oral LD50 Rat 7060 mg/kg; Inhalation LC50 Rat 124.7 mg/L 4 h

Methanol 67-56-1 Inhalation LC50 Rat 83.2 mg/L 4 h; Inhalation LC50 Rat 64000 ppm 4 h; Oral LD50

Rat 5628 mg/kg; Dermal LD50 Rabbit 15800 mg/kg

n-Butane 106-97-8 Inhalation LC50 Rat 658 mg/L 4 h
Propane 74-98-6 Inhalation LC50 Rat 658 mg/L 4 h

Sensitization Not expected to be hazardous by OSHA criteria.

Carcinogenicity

IARC - Group 1 (Carcinogenic to Humans)

Ethyl Alcohol 64-17-5 Monograph 100E [in preparation] (in alcoholic beverages); Monograph 96 [in

preparation] (in alcoholic beverages)

**Teratogenicity** Animal experiments showed mutagenic and teratogenic effects.

## 12. Ecological Information

**Ecotoxicity** LC50 1730 mg/L, Fish, 96.00 Hours,

EC50 931 mg/L, Daphnia, 48.00 Hours,

Contains a substance which causes risk of hazardous effects to the environment.

### 13. Disposal Considerations

Waste codes D001: Waste Flammable material with a flash point <140 F

**Disposal instructions**Contents under pressure. Dispose of this material and its container to hazardous or

special waste collection point. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.

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## 14. Transport Information

## **Department of Transportation (DOT) Requirements**

Basic shipping requirements:

Consumer commodity Proper shipping name

**Hazard class** ORM-D Subsidiary hazard class None

Additional information:

**Packaging exceptions** 156, 306 Packaging non bulk 156, 306 None Packaging bulk

#### **IMDG**

Basic shipping requirements:

**AEROSOLS** Proper shipping name

**Hazard class** 21 1950 **UN** number

Additional information:

LTD QTY **Packaging exceptions** Item 5F None Labels required 2 **Transport Category** 



**Basic shipping requirements:** 

Proper shipping name Aerosols, flammable

**Hazard class** 2.1 **UN** number 1950

Additional information:

LTD QTY Packaging exceptions Labels required 2.1





# 15. Regulatory Information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication **US** federal regulations

Standard, 29 CFR 1910.1200. Pesticides are exempt from TSCA.

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

67-56-1 1.0 % de minimis concentration

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

**CERCLA (Superfund) reportable quantity** 

Methanol: 5000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 extremely hazardous substance

Section 311 hazardous chemical Yes

Hazard categories (311/312) Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

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#### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

WARNING: This product contains a chemical known to the State of California to cause

cancer.

U.S. - Pennsylvania - RTK (Right to Know) List

Ethyl Alcohol 64-17-5 Present

Methanol 67-56-1 Environmental hazard

106-97-8 n-Butane Present 74-98-6 Propane Present

## 16. Other Information

**Further information** HMIS® is a registered trade and service mark of the NPCA.

**HMIS®** ratings Health: 1\*

Flammability: 3 Physical hazard: 0 Personal protection:

**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our

> knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information in the sheet was written based on the best knowledge and

experience currently available.

Prepared by Regulatory Compliance