

# MATERIAL SAFETY DATA SHEET

Bug Ban Plus Personal Insect Repellent

FILE NO.: 458000000

MSDS DATE: 06/09/11

---

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

---

**PRODUCT NAME:** Bug Ban Plus Personal Insect Repellent  
**PRODUCT CODES:** 458000000

**MANUFACTURER:** QuestVapco Corp.  
**ADDRESS:** P.O. Box 624  
Brenham, TX 77834

**EMERGENCY PHONE:** 1-800-231-0454 x 135  
**CHEMTEL PHONE:** 1-800-255-3924  
**OTHER CALLS:** 1-800-231-0454

**EPA REGISTRATION NUMBER:** 44446-48  
**EPA ESTABLISHMENT NUMBER:** 44446-TX-1

**PRODUCT USE:** Insect repellent for skin application

---

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

---

<u>INGREDIENT:</u> <u>Name</u>	<u>CAS NO.</u>	<u>PEL</u>	<u>TLV</u>	<u>SARA 313</u> <u>REPORTABLE</u>
Acetona	67-64-1	1000 ppm	500 ppm	
N-Octyl Bicycloheptene Dicarboximide	113-48-4	N/A	N/A	
Diethyl-M-Toluamide	134-62-3	NA	NA	
Di-n-propyl isocinchomeronate	136-45-8	N/A	N/A	Yes
Isopropyl Alcohol	67-63-0	400 PPM	200 PPM	
Propane/n-Butane	68476-86-8	N/A	1000ppm	

---

## SECTION 3: HAZARDS IDENTIFICATION

---

**EMERGENCY OVERVIEW:** Flammable aerosol, Contents under pressure exposure to high temperatures above 120F can cause bursting. Keep away from heat, sparks, or open flame.

**ROUTES OF ENTRY:** Eyes, Ingestion, Inhalation

### POTENTIAL HEALTH EFFECTS

**EYES:** May cause sever Irritation

**SKIN:** Mild irritation possible if sensitive to DEET.

**INGESTION:** May be harmful or fatal.

**INHALATION: DIZZINESS.** May cause dizziness, disorientation, or suffocation. Prolonged exposure may lead to unconsciousness

**ACUTE HEALTH HAZARDS:**

**CHRONIC HEALTH HAZARDS:** None known

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** None known

---

### CARCINOGENICITY

**OSHA:** No      **ACGIH:** No      **NTP:** No      **IARC:** No      **OTHER:**

# MATERIAL SAFETY DATA SHEET

Bug Ban Plus Personal Insect Repellent

FILE NO.: 458000000

MSDS DATE: 06/09/11

---

## SECTION 4: FIRST AID MEASURES

---

**EYES:** Flush with water for 15 minutes. Contact physician.

**SKIN:** Wash with soap and water for 15 minutes. If irritation develops seek medical attention.

**INGESTION:** Give person 2 glasses water if alert. Contact physician, do not induce vomiting unless directed by medical authority.

**INHALATION:** Move to fresh air. If not breathing administer artificial respiration.

### NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

### SECTION 4 NOTES:

---

## SECTION 5: FIRE-FIGHTING MEASURES

---

**FLAMMABLE LIMITS IN AIR (% BY VOLUME)**      **UPPER:** 6.0      **LOWER:** 1.0

**FLASH POINT (METHOD USED: TCC):**    **F:** >130      **C:**

**AUTOIGNITION TEMPERATURE:**      **F:** N/A      **C:** N/A

### NFPA HAZARD CLASSIFICATION

**HEALTH:** 1      **FLAMMABILITY:** 3      **REACTIVITY:** 1      **OTHER:**

### HMIS HAZARD CLASSIFICATION

**HEALTH:** 1      **FLAMMABILITY:** 2      **REACTIVITY:** 1      **PROTECTION:** A

**EXTINGUISHING MEDIA:** Dry chemical, alcohol foam, alcohol-resistant foam, or carbon dioxide. Water may be ineffective.

**SPECIAL FIRE FIGHTING PROCEDURES:** SCBA is always recommended when fighting fires. Use water mist to keep containers cool. Cool containers with flooding quantities of water until well after fire is out.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Extremely flammable. Contents under pressure. Exposure to temperatures above 120 F may cause bursting. Keep away from open flames and sources of ignition. Liquid may burn when heated.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon

### SECTION 5 NOTES:

---

## SECTION 6: ACCIDENTAL RELEASE MEASURES

---

**ACCIDENTAL RELEASE MEASURES:** Contain Spill. Use absorbent material such as vermiculite for large spills. Small spills may be wiped up using wiping material.

### SECTION 6 NOTES:

---

## SECTION 7: HANDLING AND STORAGE

---

**HANDLING AND STORAGE:** Do not use or store near heat or open flame. Exposure to temperatures above 120 F may cause bursting.

**OTHER PRECAUTIONS:** Store in a cool, dry area away from heat, sparks or flame. Read directions before using.

# MATERIAL SAFETY DATA SHEET

Bug Ban Plus Personal Insect Repellent

FILE NO.: 458000000

MSDS DATE: 06/09/11

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

---

### ENGINEERING CONTROLS:

**VENTILATION** : Ambient suitable, forced ventilation should not be required

**RESPIRATORY PROTECTION:** Not required under normal use. If exposure levels are exceeded then organic vapor cartridge respirator or SCBA will be needed.

**EYE PROTECTION:** Safety glasses always recommended when using chemicals.

**SKIN PROTECTION:** Not required under normal use

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Not required under normal use

**WORK HYGIENIC PRACTICES:** Wash hands after use.

### EXPOSURE GUIDELINES:

---

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

---

**APPEARANCE:** Clear Liquid

**ODOR:** Musk, insecticide

**PHYSICAL STATE:** Liquid

**pH AS SUPPLIED:** N/A

**BOILING POINT:** F: 206 C: 96.67

**MELTING POINT:** F: not tested C:

**FREEZING POINT:** F: not tested C:

**VAPOR PRESSURE (mmHg):** >1 @ F: 77 C: 25

**VAPOR DENSITY (AIR = 1):** >2 @ F: 77 C: 25

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 0.87 @ F: 77 C: 25

**EVAPORATION RATE (Butyl Acetate =1):** >3

**SOLUBILITY IN WATER:** 44 %

**PERCENT VOLATILE:** 64.55 BY VOL @ F: 77 C: 25

---

## SECTION 10: STABILITY AND REACTIVITY

---

**STABILITY:** STABLE X UNSTABLE

**CONDITIONS TO AVOID (STABILITY):** Flames and ignition sources, temperatures above 120F

**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong oxidizers, alkalies, and strong acids

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Oxides of carbon

**HAZARDOUS POLYMERIZATION:** None **CONDITIONS TO AVOID (POLYMERIZATION):** None

---

## SECTION 11: TOXICOLOGICAL INFORMATION

# MATERIAL SAFETY DATA SHEET

Bug Ban Plus Personal Insect Repellent

FILE NO.: 458000000

MSDS DATE: 06/09/11

## TOXICOLOGICAL INFORMATION:

---

## SECTION 12: ECOLOGICAL INFORMATION

### ECOLOGICAL INFORMATION:

---

## SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Dispose of in accordance with local, State and Federal regulations. Wrap empty containers in newspaper and dispose properly.

**RCRA HAZARD CLASS:** Liquid could be classified as D001 under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

---

## SECTION 14: TRANSPORT INFORMATION

### U.S. DEPARTMENT OF TRANSPORTATION

**PROPER SHIPPING NAME:** ORM-D

**HAZARD CLASS:**

**ID NUMBER:**

**PACKING GROUP:**

**LABEL STATEMENT:**

### WATER TRANSPORTATION

**PROPER SHIPPING NAME:** Call manufacturer

**HAZARD CLASS:**

**ID NUMBER:**

**PACKING GROUP:**

**LABEL STATEMENTS:**

### AIR TRANSPORTATION

Call manufacturer

**PROPER SHIPPING NAME:**

**HAZARD CLASS:**

**ID NUMBER:**

**PACKING GROUP:**

**LABEL STATEMENTS:**

### OTHER AGENCIES:

---

## SECTION 15: REGULATORY INFORMATION

### U.S. FEDERAL REGULATIONS

**TSCA (TOXIC SUBSTANCE CONTROL ACT):** All Chemicals are listed

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** None

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):** None

**311/312 HAZARD CATEGORIES:** None

**313 REPORTABLE INGREDIENTS:** None

### STATE REGULATIONS:

### INTERNATIONAL REGULATIONS:

---

## SECTION 16: OTHER INFORMATION

# MATERIAL SAFETY DATA SHEET

Bug Ban Plus Personal Insect Repellent

FILE NO.: 458000000

MSDS DATE: 06/09/11

---

## OTHER INFORMATION:

**PREPARATION INFORMATION:** Juanita Mercure

**DISCLAIMER:** To the best of our knowledge, the information contained herein is accurate. However there is no assumption of any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard which exists. The information contained in this MSDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this MSDS shall be created or inferred by any statement in this MSDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this MSDS. The user is responsible for full compliance.