

# MATERIAL SAFETY DATA SHEET



## RAID COMMERCIAL FLYING INSECT KILLER

| HMIS        |   | NFPA | Personal protective equipment |
|-------------|---|------|-------------------------------|
| Health      | 1 | 1    | None / Aucune / Ninguno       |
| Fire Hazard | 4 | 4    |                               |
| Reactivity  | 0 | 0    |                               |

Version Number: 3

Preparation date: 2009-06-22

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** RAID COMMERCIAL FLYING INSECT KILLER

**MSDS #:** 126147.003

**Product Code:** 94892

**Recommended use:** Industrial/Institutional. Insecticide.

**Manufacturer, importer, supplier:**

US Headquarters  
JohnsonDiversey, Inc.  
8310 16th St.  
Sturtevant, Wisconsin 53177-1964  
Phone: 1-888-352-2249  
MSDS Internet Address:  
www.johnsondiversey.com

**Emergency telephone number:** 1-800-851-7145 (U.S.); 1-651-917-6133 (Int'l)

### 2. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

CAUTION: CONTENTS UNDER PRESSURE. HARMFUL IF ABSORBED THROUGH SKIN. MAY BE MILDLY IRRITATING TO EYES.

**Principle routes of exposure:** Inhalation. Skin contact. Eye contact.

**Eye contact:** May be mildly irritating to eyes.

**Skin contact:** Prolonged or repeated contact may dry skin and cause irritation. Harmful if absorbed through skin.

**Inhalation:** May be irritating to nose, throat, and respiratory tract.

**Ingestion:** None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous ingredients

| Ingredient(s)   | CAS #     | Weight %   | LD50 Oral - Rat (mg/kg) | LD50 Dermal - Rabbit | LC50 Inhalation - Rat       |
|---|-----------|------------|-------------------------|----------------------|-----------------------------|
| Piperonyl butoxide  | 51-03-6   | 1 - 5%     | 6150                    | Not available        | Not available               |
| Tetramethrin [(1-cyclohexene-1,2-dicarboximido) methyl 2,2-dimethyl-3-(2-methylpropenyl) cyclopropanecarboxylate] | 7696-12-0 | 0.1 - 1.5% | 4640                    | Not available        | 2500 mg/m <sup>3</sup> (3h) |
| Butane  | 106-97-8  | 10 - 20%   | 2000                    | Not available        | =658 mg/L (4 h)             |
| Propane   | 74-98-6   | 5 - 10%    | 2400                    | Not available        | =658 mg/L (4 h)             |
| Isobutane   | 75-28-5   | 5 - 10%    | Not available           | Not available        | =658 mg/L (4 h)             |

### 4. FIRST AID MEASURES

**Eye contact:** Flush immediately with plenty of water. Get medical attention if irritation occurs.

**Skin contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call medical attendant, medical doctor, or poison control center.

**Inhalation:** If breathing is affected, remove to fresh air. Get medical attention.

**Ingestion:** Immediately drink plenty of water. Get medical attention.

**Aggravated Medical Conditions:** Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc., may be more susceptible to irritating effects.

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** Dry chemical, water spray, foam, carbon dioxide.

**Specific hazards:** Aerosol product - Containers may rocket or explode in heat of fire. NFPA 30B Level 1 Aerosol.

**Unusual hazards:** None known.

## 5. FIRE-FIGHTING MEASURES

**Specific methods:** Use water spray to keep fire-exposed containers cool. Aerosol Product - Containers may rocket or explode in heat of fire.

**Special protective equipment for firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**Extinguishing media which must not be used for safety reasons:** No information available

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Put on appropriate personal protective equipment (see Section 8.). Remove all sources of ignition. Ensure adequate ventilation.

**Environmental precautions and clean-up methods:** Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Use a water rinse for final clean-up.

## 7. HANDLING AND STORAGE

### Handling:

Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Avoid breathing vapors or mists. Use only in well-ventilated areas. CONTENTS UNDER PRESSURE. Do not puncture or incinerate. Keep away from open flames, hot surfaces and sources of ignition. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

### Storage:

Store in a cool, dry, well ventilated area away from heat or open flame. Keep away from food, foodstuffs and domestic water supplies. Protect from freezing. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 degrees C or 120 degrees F. Do not pierce or burn, even after use. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Engineering measures to reduce exposure:

No special ventilation requirements. General room ventilation is adequate.

### Personal Protective Equipment

#### Eye protection:

No special requirements under normal use conditions

#### Hand protection:

No special requirements under normal use conditions

#### Skin and body protection:

No special requirements under normal use conditions

#### Respiratory protection:

No special requirements under normal use conditions

#### Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice

| Ingredient(s) | CAS #    | ACGIH          | OSHA   | Mexico  |
|---------------|----------|----------------|--|---|
| Butane        | 106-97-8 | 1000 ppm (TWA) |  | 1900 mg/m <sup>3</sup> (TWA)<br>800 ppm (TWA) |
| Propane       | 74-98-6  | 1000 ppm (TWA) | 1000 ppm (TWA)<br>1800 mg/m <sup>3</sup> (TWA) |   |
| Isobutane     | 75-28-5  | 1000 ppm (TWA) |  |   |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Aerosol  
**pH:** none / aucune / ninguno  
**Appearance:** Aerosol  
**Color:** Colorless  
**Odor:** Characteristic  
**Specific gravity:** 0.804  
**Density:** 6.71 lbs/gal 0.804 Kg/L  
**VOC:** 25% \*  
**Flash point:** 20°F -6.66°C  
**Solubility:** Insoluble  
**Viscosity:** No information available

**Bulk density:** No information available  
**Dilution pH:** No information available.  
**Vapor density:** No information available  
**Evaporation Rate** No information available  
**Boiling point/range:** Not determined  
**Melting point/range:** Not determined  
**Decomposition temperature:** Not determined  
**Autoignition temperature:** No information available  
**Partition coefficient (n-octanol/water):** No information available  
**Solubility in other solvents:** No information available  
**Elemental Phosphorus:** 0% by wt.

\* - Title 17, California Code of Regulations, Division 3, Chapter 1, Subchapter 8.5, Article 2, Consumer Products, Sections 94508

## 10. STABILITY AND REACTIVITY

**Stability:** The product is stable  
**Polymerization:** Hazardous polymerization does not occur  
**Hazardous decomposition products:** None reasonably foreseeable.

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** Oral LD50 estimated to be greater than 5000 mg/kg; Dermal LD50 estimated to be > 2000 mg/kg  
**Component Information:** See Section 3

## 11. TOXICOLOGICAL INFORMATION

**Chronic toxicity:** None known

### **Specific effects**

**Carcinogenic effects:** None known  
**Mutagenic effects:** None known  
**Reproductive toxicity:** None known  
**Target organ effects:** None known

## 12. ECOLOGICAL INFORMATION

**Environmental Information:** No data available

## 13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food, or feed by storage or disposal

### **Waste from residues / unused products:**

PESTICIDAL WASTE - Observe all applicable Federal/Provincial/State regulations and Local/Municipal ordinances regarding disposal of pesticide wastes. If possible, recycle empty aerosol cans to the nearest steel recycling center. Use up contents if possible before disposal.

### **Pesticide Storage:**

Store in original container in areas inaccessible to children. Open dumping is prohibited. Do not reuse empty container

### **Pesticide Disposal:**

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law

### **Container Disposal:**

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or, if allowed by State and local authorities burn. If burned, stay out of smoke

## 14. TRANSPORT INFORMATION

**DOT/TDG:** Please refer to the Bill of Lading/receiving documents for up to date shipping information

## 15. REGULATORY INFORMATION

### **International Inventories**

All components of this product are listed on the following inventories: U.S.A. (TSCA).

### **U.S. Regulations**

**EPA Reg. No.:** 70627-51

**California Proposition 65:** This product is not subject to the reporting requirements under California's Proposition 65

### **CERCLA/ SARA**

| <b>Ingredient(s)</b>  | <b>CAS #</b> | <b>Weight %</b> | <b>CERCLA/SARA RQ (lbs)</b> | <b>Section 302 TPQ (lbs)</b> | <b>Section 313</b> |
|---|--------------|-----------------|-----------------------------|------------------------------|--------------------|
| Piperonyl butoxide  | 51-03-6      | 1 - 5%          |                             |                              | X                  |
| Tetramethrin [(1-cyclohexene-1,2-dicarboximido) methyl 2,2-dimethyl-3-(2-methylpropenyl) cyclopropanecarboxylate] | 7696-12-0    | 0.1 - 1.5%      |                             |                              | X                  |

### **SARA 311/312 Hazard Categories**

**Immediate:** -  
**Delayed:** -  
**Fire:** X  
**Reactivity:** -  
**Sudden Release of Pressure:** X

## 16. OTHER INFORMATION

**Reason for revision:** Not applicable

**Prepared by:** NAPRAC

**Additional advice:** NFPA 30B Level 1 Aerosol. Remove or cover terrariums, aquariums and animal cages before application. Turn off aquarium air-filter while spraying.

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