

## Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



# RAID® HOUSE & GARDEN BUG KILLER (REG. NO. 20796 P.C.P. ACT)

Version 1.

Print Date 03/19/2010

Revision Date 01/26/2010

MSDS Number 350000004252

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product information

- Trade name : RAID® HOUSE & GARDEN BUG KILLER (REG. NO. 20796 P.C.P. ACT)
- Use of the Substance/Mixture : Insecticide
- Company : S.C. Johnson and Son, Limited  
1 Webster Street  
Brantford ON N3T 5R1
- Emergency telephone : 24 Hour Transport & Medical Emergency Phone (866) 231-5406  
24 Hour International Emergency Phone (952) 852-4647  
24 Hour Canadian Transport Emergency Phone (CANUTEC) (613) 996-6666

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

- Appearance / Odor : opaque / aerosol / characteristic

### Immediate Concerns

- : Caution  
Contents under pressure. Do not puncture or incinerate. Do not store at temperatures above 120 Deg. F (50 Deg C), as container may burst. Keep away from heat, sparks and flame. Avoid contact with skin, eyes and clothing. Avoid prolonged or repeated breathing of vapor.

### Potential Health Effects

- Exposure routes : Eye, Skin, Inhalation, Ingestion.
- Eyes : May cause:  
Mild eye irritation
- Skin : Prolonged or repeated contact may dry skin and cause irritation.
- Inhalation : May be harmful if inhaled.
- Ingestion : None known.
- Aggravated Medical Condition : None known.

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#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight percent
Water	7732-18-5	60.00 - 100.00
Isobutane	75-28-5	10.00 - 30.00
Propane	74-98-6	5.00 - 10.00
Butane	106-97-8	1.00 - 5.00
Piperonyl butoxide	51-03-6	1.00 - 5.00
Allethrin	584-79-2	0.10 - 1.00
Tetramethrin	7696-12-0	0.01 - 0.10

#### 4. FIRST AID MEASURES

- Eye contact : Flush immediately with plenty of water for at least 15 to 20 minutes. Get medical attention if irritation develops and persists.
- Skin contact : Wash off with soap and water. Get medical attention if irritation develops and persists.
- Inhalation : Remove to fresh air. If breathing is affected, get medical attention.
- Ingestion : Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

#### 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Alcohol foam, carbon dioxide, dry chemical, water fog
- Specific hazards during fire fighting : Aerosol Product - Containers may rocket or explode in heat of fire.
- Further information : Cool and use caution when approaching or handling fire-exposed containers. Wear full protective clothing and positive pressure self-contained breathing apparatus. Fight fire from maximum distance or protected area.
- Flash point : < 20 °F  
Method: Tag Closed Cup (TCC)  
Note: Propellant
- Lower explosion limit : Note: no data available

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Upper explosion limit : Note: no data available

NFPA Classification : NFPA Level 1 Aerosol

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Remove all sources of ignition.  
Use personal protective equipment.

Environmental precautions : Use appropriate containment to avoid environmental contamination.

Methods for cleaning up : Soak up with inert absorbent material.  
Dike large spills.  
Sweep up and shovel into suitable containers for disposal.

#### 7. HANDLING AND STORAGE

##### Handling

Advice on safe handling : Use only as directed.  
KEEP OUT OF REACH OF CHILDREN AND PETS.  
Do not puncture or incinerate.  
Avoid breathing vapors, mist or gas.  
Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion : Keep away from heat and sources of ignition.

##### Storage

Requirements for storage areas and containers : Keep in a dry, cool and well-ventilated place.  
Do not freeze.  
Do not store at temperatures above 120 Deg. F (50 Deg C), as container may burst.

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Occupational Exposure Limits

Components	CAS-No.	mg/m3	ppm	Non-standard units	Basis
Isobutane	75-28-5	-	1,000 ppm	-	ACGIH TWA
Propane	74-98-6	-	1,000 ppm	-	ACGIH TWA
Butane	106-97-8	-	1,000 ppm	-	ACGIH TWA

##### Personal protective equipment

###### Respiratory protection

Industrial setting : Substantial amounts of mist/vapors can be controlled with local exhaust ventilation or respiratory protection.

Household setting : No personal respiratory protective equipment normally required.

###### Hand protection

Industrial setting : For prolonged or repeated contact use protective gloves.

Household setting : not required under normal use

###### Eye protection

Industrial setting : If prolonged or repeated contact is possible:  
Safety glasses with side-shields

Household setting : No special requirements.

**Hygiene measures** : Use only with adequate ventilation. Wash thoroughly after handling. Wear suitable protective clothing. Keep away from food, drink and animal feedingstuffs.

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	aerosol
Color	:	opaque
Odor	:	characteristic
pH	:	no data available
Boiling point	:	no data available
Freezing point	:	no data available
Flash point	:	< 20 °F Method: Tag Closed Cup (TCC) Propellant
Evaporation rate	:	no data available
Autoignition temperature	:	no data available
Lower explosion limit	:	no data available
Upper explosion limit	:	no data available
Vapour pressure	:	no data available
Density	:	0.81 g/cm <sup>3</sup>
Water solubility	:	soluble
Partition coefficient: n-octanol/water	:	no data available

#### 10. STABILITY AND REACTIVITY

Conditions to avoid	:	Heat, flames and sparks.
Materials to avoid	:	Do not mix with oxidizing agents.
Hazardous decomposition products	:	Thermal decomposition can lead to release of irritating gases and vapours.
Hazardous reactions	:	Stable

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#### 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	:	LD50 estimated > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 estimated 6.7 mg/l
Acute dermal toxicity	:	LD50 estimated > 2,000 mg/kg
<b>Chronic effects</b>		
Carcinogenicity	:	no data available
Mutagenicity	:	no data available
Reproductive effects	:	no data available
Teratogenicity	:	no data available
Sensitisation	:	Substance is not a sensitizer.

#### 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity effects</b>	:	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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#### 13. DISPOSAL CONSIDERATIONS

Industrial setting	:	Observe all applicable Federal, Provincial and State regulations and Local/Municipal ordinances regarding disposal.
Household setting	:	Consumer may discard empty container in trash, or recycle where facilities exist.

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#### 14. TRANSPORT INFORMATION

##### Land transport

▪ **U.S. DOT and Canadian TDG Surface Transportation:**

UN-Number 1950  
Proper shipping name Aerosols, flammable  
Class: 2.1  
Packaging group: None.

Note: SC Johnson ships this product as Consumer Commodity ORM-D (non-bulk packages)

##### Sea transport

▪ **IMDG:**

Class: 2.1  
Packaging group: None.  
Proper shipping name Aerosols, flammable  
UN-Number: 1950

Note: SC Johnson ships this product as "Limited Quantity" when the container quantity value is 1 Liter or less.

##### Air transport

▪ **ICAO/IATA:**

Class: 2.1  
Packaging group: None.  
Proper shipping name Aerosols, flammable  
UN/ID No.: UN 1950

Note: SC Johnson typically does not ship products via air, therefore it has not been determined if the product container meets current IATA/ICAO package criteria. Refer to IATA/ICAO Dangerous Goods Regulations for detailed instructions when shipping this item by air.

#### 15. REGULATORY INFORMATION

Notification status : All ingredients of this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).

Canada Regulations : This product has been classified in accordance with hazard

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criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### 16. OTHER INFORMATION

#### HMIS Ratings

Health	1
Flammability	4
Reactivity	0

#### NFPA Ratings

Health	1
Fire	4
Reactivity	0
Special	

#### Further information

This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

Prepared by:	SC Johnson Global Safety Assessment & Regulatory Affairs (GSARA)
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