

## Safety Data Sheet

classification according to Canadian Hazardous Products Regulation



### Raid® Bed Bug Killer (Reg. No. 31897 P.C.P. Act)

Version 1.0

Print Date 06/21/2017

Revision Date 05/25/2017

SDS Number 350000010614

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product information

**Product name** : Raid® Bed Bug Killer (Reg. No. 31897 P.C.P. Act)

**Recommended use** : Insecticide

**Restrictions on use** : Use only as directed on label

**Manufacturer, importer, supplier** : S.C. Johnson and Son, Limited  
1 Webster Street  
Brantford ON N3T 5R1

**Telephone** : +1-800-558-5566

**Emergency telephone number** : 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

### Classification of the substance or mixture

#### Globally Harmonized System (GHS) Classification

Hazard classification	Hazard category	Hazards identification
Aerosol	Category 1	Extremely flammable aerosol.

### Labelling

#### Hazard symbols

Flame

#### Signal word

Danger

#### Hazard statements

Extremely flammable aerosol.

#### Precautionary statements

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

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Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
Do not spray on an open flame or other ignition source.  
Pressurized container: Do not pierce or burn, even after use.

**Other hazards** : Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.  
Excessive exposure to spray mist, fog or vapour may cause respiratory irritation.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous chemicals present at or above reportable levels as defined by Canadian Hazardous Products Regulation are listed in this table.

Chemical name	CAS-No.	Weight percent
Isobutane	75-28-5	13.00 - 30.00
Propane	74-98-6	3.00 - 5.00
Piperonyl butoxide	51-03-6	0.10 - 1.00
Pyrethrum	8003-34-7	0.10 - 1.00

The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

For additional information on product ingredients, see [www.whatsinsidescjohnson.com](http://www.whatsinsidescjohnson.com).

### 4. FIRST AID MEASURES

#### Description of first aid measures

**Eye contact** : No special requirements  
**Skin contact** : No special requirements  
**Inhalation** : No special requirements.  
**Ingestion** : No special requirements

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#### Most important symptoms and effects, both acute and delayed

- Eyes : May irritate eyes.
- Skin effect : No adverse effects expected when used as directed.
- Inhalation : Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal. Excessive exposure to spray mist, fog or vapour may cause respiratory irritation.
- Ingestion : No adverse effects expected when used as directed.

#### Indication of any immediate medical attention and special treatment needed

See Description of first aid measures unless otherwise stated.

#### 5. FIREFIGHTING MEASURES

- Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific hazards during firefighting** : Aerosol Product - Containers may rocket or explode in heat of fire. Do not allow run-off from fire fighting to enter drains or water courses.
- Further information** : Fight fire from maximum distance or protected area. Cool and use caution when approaching or handling fire-exposed containers. Wear full protective clothing and positive pressure self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.
- NFPA Classification** : NFPA Level 1 Aerosol

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#### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Remove all sources of ignition.  
Wear personal protective equipment.  
Wash thoroughly after handling.
- Environmental precautions** : Do not flush into surface water or sanitary sewer system.  
Use appropriate containment to avoid environmental contamination.  
Outside of normal use, avoid release to the environment.
- Methods and materials for containment and cleaning up** : If damage occurs to aerosol can:  
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).  
Use only non-sparking equipment.  
Dike large spills.  
Clean residue from spill site.

#### 7. HANDLING AND STORAGE

- Handling**
- Precautions for safe handling** : Avoid contact with skin, eyes and clothing.  
Do not enter places where used or stored until adequately ventilated.  
For personal protection see section 8.  
Use only as directed.  
KEEP OUT OF REACH OF CHILDREN AND PETS.  
Pressurized container.  
Do not pierce or burn, even after use.
- Advice on protection against fire and explosion** : Keep away from sources of ignition - No smoking.  
Do not spray on an open flame or other ignition source.

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#### Storage

**Requirements for storage areas and containers** : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Keep away from food, drink and animal feedingstuffs. Keep in a dry, cool and well-ventilated place.

## 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 STEL
Propane	74-98-6	-	-	-	ACGIH TWA

#### Personal protective equipment

**Respiratory protection** : Do not spray in enclosed areas.

**Hand protection** : No special requirements.

**Eye protection** : No special requirements.

**Skin and body protection** : No special requirements.

**Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Form</b>	: aerosol
<b>Color</b>	: colourless
<b>Odour</b>	: characteristic
<b>Odour Threshold</b>	: No data available
<b>pH</b>	: Not applicable
<b>Melting point/freezing point</b>	: No data available
<b>Initial boiling point and boiling range</b>	: No data available
<b>Flash point</b>	: < -7 °C < 19.4 °F Method: Tag Closed Cup (TCC)
<b>Evaporation rate</b>	: No data available
<b>Flammability (solid, gas)</b>	: No data available
<b>Upper/lower flammability or explosive limits</b>	: No data available
<b>Vapour pressure</b>	: Not applicable
<b>Vapour density</b>	: No data available
<b>Relative density</b>	: 0.804 g/cm <sup>3</sup>
<b>Solubility(ies)</b>	: partly soluble

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**Partition coefficient: n-octanol/water** : No data available

**Auto-ignition temperature** : No data available

**Decomposition temperature** : No data available

**Viscosity, dynamic** : No data available

**Viscosity, kinematic** : Not applicable

**Oxidizing properties** : No data available

**Volatile Organic Compounds Total VOC (wt. %)\*** : 30.2 % - additional exemptions may apply  
\*as defined by US Federal and State Consumer Product Regulations

**Other information** : None identified :

#### 10. STABILITY AND REACTIVITY

**Reactivity** : No dangerous reaction known under conditions of normal use.

**Chemical stability** : Stable under recommended storage conditions.

**Possibility of hazardous reactions** : Stable under recommended storage conditions.

**Conditions to avoid** : Heat, flames and sparks.

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**Incompatible materials** : Strong oxidizing agents

**Hazardous decomposition products** : Thermal decomposition can lead to release of irritating gases and vapours.

#### 11. TOXICOLOGICAL INFORMATION

**Acute oral toxicity** : LD50 > 2000 mg/kg

**Acute inhalation toxicity** : LC50 > 5 mg/L

**Acute dermal toxicity** : LD50 > 2000 mg/kg

GHS Properties	Classification	Routes of entry
Acute toxicity	No classification proposed	Oral
Acute toxicity	No classification proposed	Dermal
Acute toxicity	No classification proposed	Inhalation - Dust and Mist
Acute toxicity	No classification proposed	Inhalation - Vapour
Acute toxicity	No classification proposed	Inhalation - Gas
Skin corrosion/irritation	No classification proposed	-
Serious eye damage/eye irritation	No classification proposed	-
Skin sensitisation	No classification proposed	-
Respiratory sensitisation	No classification proposed	-
Germ cell mutagenicity	No classification proposed	-



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Carcinogenicity	No classification proposed	-
Reproductive toxicity	No classification proposed	-
Specific target organ toxicity - single exposure	No classification proposed	-
Specific target organ toxicity - repeated exposure	No classification proposed	-
Aspiration hazard	No classification proposed	-

**Aggravated Medical Condition** : None known.

## 12. ECOLOGICAL INFORMATION

**Product** : The product itself has not been tested.

### Toxicity

The ingredients in this formula have been reviewed and no adverse impact to the environment is expected when used according to label directions.

### Toxicity to fish

Components	End point	Species	Value	Exposure time
Isobutane	LC50 QSAR	Fish	27.98 mg/l	96 h
Propane	LC50	Fish	27.98 mg/l	96 h
Piperonyl butoxide	LC50	Cyprinodon variegatus (sheepshead minnow)	3.94 mg/l	96 h

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	flow-through test NOEC	Pimephales promelas (fathead minnow)	0.18 mg/l	35 d
Pyrethrum	LC50	Oncorhynchus mykiss (rainbow trout)	0.0052 mg/l	96 h

#### Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
Isobutane	LC50 QSAR	Daphnid	16.33 mg/l	48 h
Propane	LC50	Daphnid	14.22 mg/l	48 h
Piperonyl butoxide	flow-through test EC50 Calculated	Crassostrea virginica	0.23 mg/l	96 h
	flow-through test NOEC Measured	Daphnia magna	0.03 mg/l	21 d
Pyrethrum	NOEC	Daphnia magna (Water flea)	0.00086 mg/l	21 d

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#### Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
Isobutane	EC50 QSAR	Green algae	8.57 mg/l	96 h
Propane	No data available			
Piperonyl butoxide	EC50 Calculated OECD Test Guideline 201	Selenastrum capricornutum, Skeletonema costatum	0.17 mg/l	72 h
Pyrethrum	No data available			

#### Persistence and degradability

Component	Biodegradation	Exposure time	Summary
Isobutane	70 %	< 10 d	Readily biodegradable.
Propane	70 %	< 10 d	Readily biodegradable.
Piperonyl butoxide			Not readily biodegradable.
Pyrethrum	No data available		Not readily biodegradable.

#### Bioaccumulative potential

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
Isobutane	1.57 - 1.97	2.8
Propane	No data available	2.36
Piperonyl butoxide	91 - 380	4.8
Pyrethrum	471	5.9

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#### Mobility

Component	End point	Value
Isobutane	No data available	
Propane	No data available	
Piperonyl butoxide	Koc	599
Pyrethrum	Koc	35171

#### PBT and vPvB assessment

Component	Results
Isobutane	Not fulfilling PBT and vPvB criteria
Propane	Not fulfilling PBT and vPvB criteria
Piperonyl butoxide	Not fulfilling PBT and vPvB criteria
Pyrethrum	Not fulfilling PBT and vPvB criteria

**Other adverse effects** : None known.

### 13. DISPOSAL CONSIDERATIONS

#### PESTICIDAL WASTE:

For disposal information, please read and follow Disposal instructions on the pesticide label. Consumer may discard empty container in trash, or recycle where facilities exist.

### 14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/receiving documents for up-to-date shipping information.

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	Land transport	Sea transport	Air transport
<b>UN number</b>	1950	1950	1950
<b>UN proper shipping name</b>	UN 1950 AEROSOLS, Flammable, 2.1, Marine Pollutant	UN 1950 AEROSOLS, Flammable, 2.1, Marine Pollutant	UN 1950 AEROSOLS, Flammable, 2.1, Marine Pollutant
<b>Transport hazard class(es)</b>	2.1	2	2.1
<b>Packing group</b>	-	-	-
<b>Environmental hazards</b>	-	Marine pollutant	-
<b>Special precautions for user</b>	Limited quantities derogation may be applicable to this product, please check transport documents.	Limited quantities derogation may be applicable to this product, please check transport documents.	Limited quantities derogation may be applicable to this product, please check transport documents.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Product not transported as bulk.	Product not transported as bulk.	Product not transported as bulk.

## 15. REGULATORY INFORMATION

### PCPA Labeling

Read the approved PCPA label prior to using or handling the pest control product.

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. Following is the hazard information required on the pest control product label:

#### CAUTION:

Explosive  
PRESSURIZED SPRAY

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Contains petroleum distillates.  
Vomiting may cause aspiration pneumonia.  
CONTENTS UNDER PRESSURE.

**Notification status** : All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

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

**Canada Regulations** : This product has been classified in accordance with the hazard criteria of the Hazardous Products Act and Regulations.

#### 16. OTHER INFORMATION

##### HMIS Ratings

<b>Health</b>	1
<b>Flammability</b>	4
<b>Reactivity</b>	0

##### NFPA Ratings

<b>Health</b>	1
<b>Fire</b>	4
<b>Reactivity</b>	0
<b>Special</b>	-

This information is being provided in accordance with Canada's Workplace Hazard Material Information System. The information supplied is designed for workplaces where product use and frequency of exposure exceeds that established for the labeled consumer use.

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**Further information**

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