

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**RAID® MAX BED BUG & FLEA KILLER**

Version 1.0

Print Date 03/04/2015

Revision Date 02/24/2015

SDS Number 350000017455

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product information**

**Product name** : RAID® MAX BED BUG & FLEA KILLER

**Recommended use** : Insecticide

**Manufacturer, importer, supplier** : S.C. Johnson & Son, Inc.  
1525 Howe Street  
Racine WI 53403-2236

**Telephone** : +18005585252  
**Emergency telephone number** : 24 Hour Medical Emergency Phone: (866)231-5406  
24 Hour International Emergency Phone: (703)527-3887  
24 Hour Transport Emergency Phone: (800)424-9300

**2. HAZARDS IDENTIFICATION**

**Classification of the substance or mixture**

**Globally Harmonized System (GHS) Classification**

Hazard classification	Hazard category	Hazards identification
Aerosol	Category 2	Flammable aerosol.
Gases under pressure	Liquefied gas	Contains gas under pressure; may explode if heated.

**Labelling**

**Hazard symbols**

Flame  
Gas cylinder

**Signal word**

Warning

**Hazard statements**

Flammable aerosol.  
Contains gas under pressure; may explode if heated.

**Precautionary statements**

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.  
Protect from sunlight. Store in a well-ventilated place.  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Do not spray on an open flame or other ignition source.  
Do not pierce or burn, even after use.

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**Other hazards** : None identified

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight percent
Isobutane	75-28-5	10.00 - 30.00
Distillates (petroleum), hydrotreated light	64742-47-8	1.00 - 5.00
n-Octyl bicycloheptene dicarboximide	113-48-4	1.00 - 5.00
D-Phenothrin	26002-80-2	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

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

### 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

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explosion do not breathe fumes.

## 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.

### Storage

- Requirements for storage areas and containers** : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

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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
Distillates (petroleum), hydrotreated light	64742-47-8	1,200 mg/m3	152 ppm	-	SUPPLIER

**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**

- Form** : aerosol
- Form** : Compressed gas
- Color** : off-white
- Odor** : pleasant
- Odour Threshold** : No data available

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- pH** : Not applicable
- Melting point/freezing point** : No data available
- Initial boiling point and boiling range** : No data available
- Flash point** : This aerosol is not classified as flammable by the Flame-Extension Test Method described in 16 CFR 1500.45
- Evaporation rate** : No data available
- Flammability (solid, gas)** :
- Upper/lower flammability or explosive limits** : No data available
- Vapour pressure** : Organic compounds with vapour pressure > 0.01 Kpa at 20 °C
- Vapour density** : No data available
- Relative density** : 0.94 g/cm<sup>3</sup> at 70 °F 0.92 g/cm<sup>3</sup> at 130 °F
- Solubility(ies)** : partly miscible
- Partition coefficient: n-octanol/water** : No data available
- Auto-ignition temperature** :
- Decomposition temperature** : No data available
- Viscosity, dynamic** : No data available

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- Viscosity, kinematic** : No data available
  
- Oxidizing properties** : No data available
  
- Volatile Organic Compounds Total VOC (wt. %)\*** : 10 % - additional exemptions may apply  
\*as defined by US Federal and State Consumer Product Regulations
  
- Other information** : None identified :

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**10. STABILITY AND REACTIVITY**

- Possibility of hazardous reactions** : Stable under recommended storage conditions.
  
- Conditions to avoid** : Heat, flames and sparks.
  
- Incompatible materials** : None known.
  
- Hazardous decomposition products** : Thermal decomposition can lead to release of irritating gases and vapours.

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**11. TOXICOLOGICAL INFORMATION**

- Emergency Overview** : Warning
  
- Acute oral toxicity** : LD50  
estimated  
> 5,000 mg/kg
  
- Acute inhalation toxicity** : NA GHS LC50 (dust and mist)  
estimated  
2.07 mg/l
  
- Acute dermal toxicity** : LD50  
estimated  
> 2,000 mg/kg

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GHS Properties	Classification	Routes of entry
Acute toxicity	No classification proposed	-
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	-
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	Fish	27.98 mg/l	96 h

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Distillates (petroleum), hydrotreated light	static test LC50	Lepomis macrochirus	2.2 mg/l	96 h
n-Octyl bicycloheptene dicarboximide	No data available			
D-Phenothrin	No data available			

**Toxicity to aquatic invertebrates**

Components	End point	Species	Value	Exposure time
Isobutane	LC50	Daphnid	16.33 mg/l	48 h
Distillates (petroleum), hydrotreated light	No data available			
n-Octyl bicycloheptene dicarboximide	No data available			
D-Phenothrin	No data available			

**Toxicity to aquatic plants**

Components	End point	Species	Value	Exposure time
Isobutane	EC50	Green algae	8.57 mg/l	96 h
Distillates (petroleum), hydrotreated light	No data available			
n-Octyl bicycloheptene dicarboximide	No data available			
D-Phenothrin	No data available			



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### Persistence and degradability

Component	Biodegradation	Exposure time	Summary
Isobutane	70 %	< 10 d	Readily biodegradable
Distillates (petroleum), hydrotreated light	No data available		
n-Octyl bicycloheptene dicarboximide	No data available		
D-Phenothrin	No data available		

### Bioaccumulative potential

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
Isobutane	1.57 - 1.97	2.8
Distillates (petroleum), hydrotreated light	61 - 159	No data available
n-Octyl bicycloheptene dicarboximide	No data available	No data available
D-Phenothrin	No data available	No data available

### Mobility

Component	End point	Value
Isobutane	No data available	
Distillates (petroleum), hydrotreated light	No data available	
n-Octyl bicycloheptene dicarboximide	No data available	
D-Phenothrin	No data available	

### PBT and vPvB assessment

Component	Results
Isobutane	Not fulfilling PBT and vPvB criteria
Distillates (petroleum), hydrotreated light	Not fulfilling PBT and vPvB criteria
n-Octyl bicycloheptene dicarboximide	Not fulfilling PBT and vPvB criteria

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**Other adverse effects** : No data available

### 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.

	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, LTD QTY	UN 1950 AEROSOLS, Flammable, 2.1, LTD QTY	UN 1950 AEROSOLS, Flammable, 2.1, LTD QTY
<b>Transport hazard class(es)</b>	2.1	2	2.1
<b>Packing group</b>	-	-	-
<b>Environmental hazards</b>	-	-	-
<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.

### 15. REGULATORY INFORMATION

#### FIFRA Labeling

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

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Following is the hazard information as required on the pesticide label:

**CAUTION:**

Harmful if absorbed through skin.  
Contents under pressure.  
Exposure to temperatures above 130° F may cause bursting.  
This product is toxic to fish and aquatic invertebrates.

**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 does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Registration # / Agency**  
1021-1767-4822/US/EPA

**16. OTHER INFORMATION**

**HMIS Ratings**

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

**NFPA Ratings**

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

This information is being provided in accordance with the Occupational Safety and Health Administration (OSHA) regulation (29 CFR 1910.1200). 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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Prepared by	SC Johnson Global Safety Assessment & Regulatory Affairs (GSARA)
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