according to Hazard Communication Standard; 29 CFR 1910.1200



RAID® MAX BED BUG & FLEA KILLER I (EPA Reg. No. 4822-604)

Version 0.0 Print Date 09/06/2016

Revision Date 00/00/0000 SDS Number 350000017455

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Product name : RAID® MAX BED BUG & FLEA KILLER I (EPA Reg. No.

4822-604)

Recommended use : Insecticide

Manufacturer, importer, : S.C. Johnson & Son, Inc.

supplier 1525 Howe Street

Racine WI 53403-2236

Telephone : +18005585252

Emergency telephone: 24 Hour Medical Emergency Phone: (866)231-5406

number 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.

according to Hazard Communication Standard; 29 CFR 1910.1200



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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.

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.

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

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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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Remove all sources of ignition.

> Wear personal protective equipment. Wash thoroughly after handling.

Environmental

Do not flush into surface water or sanitary sewer system. Use appropriate containment to avoid environmental precautions

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.

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: Keep away from sources of ignition - No smoking. Advice on protection against fire and explosion 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.

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

according to Hazard Communication Standard; 29 CFR 1910.1200



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Form : Compressed gas

Color : off-white

Odor : pleasant

Odour Threshold : No data available

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/cm3 at 70 °F0.92 g/cm3 at 130 °F

Solubility(ies) : partly miscible

Partition coefficient: n- : No data available

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octanol/water

Auto-ignition temperature :

Decomposition temperature : No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

Volatile Organic : 10 % - additional exemptions may apply

Compounds *as defined by US Federal and State Consumer Product

Total VOC (wt. %)* Regulations

Other information : None identified :

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 Acute inhalation toxicity

Acute dermal toxicity

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 : None known.

Condition

12. ECOLOGICAL INFORMATION

Product : The product itself has not been tested.

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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
Distillates (petroleum), hydrotreated light	static test LC50 OECD Test Guideline 203	Oncorhynchus mykiss (rainbow trout)	> 1,000 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 QSAR	Daphnid	16.33 mg/l	48 h
Distillates (petroleum), hydrotreated light	EC50 OECD Test Guideline 202	Daphnia (water flea)	> 1,000 mg/l	48 h

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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 QSAR	Green algea	8.57 mg/l	96 h
Distillates (petroleum), hydrotreated light	ErC50 OECD Test Guideline 201	Pseudokirchneriella subcapitata (green algae)	> 1,000 mg/l	72 h
n-Octyl bicycloheptene dicarboximide	No data available			
D-Phenothrin	No data available			

Persistence and degradability

Component	Biodegradation	Exposure time	Summary
Isobutane	70 %	< 10 d	Readily biodegradable
Distillates (petroleum), hydrotreated light	69 %	28 d	Readily biodegradable
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),	61 - 159	No data available

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hydrotreated light		
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

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.

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	Land transport	Sea transport	Air transport
UN number	1950	1950	1950
UN proper	UN 1950 AEROSOLS,	UN 1950	UN 1950 AEROSOLS,
shipping name	Flammable, 2.1, LTD	AEROSOLS,	Flammable, 2.1, LTD
	QTY	Flammable, 2.1, LTD QTY	QTY
Transport hazard class(es)	2.1	2	2.1
Packing group	-	-	-
Environmental	-	-	-
hazards			
Special	Limited quantities	Limited quantities	Limited quantities
precautions for	derogation may be	derogation may be	derogation may be
user	applicable to this	applicable to this	applicable to this
	product, please check transport documents.	product, please check transport documents.	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.

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.

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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.

16. OTHER INFORMATION

HMIS Ratings	НМ	IS I	Ra	tin	gs
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Health	1	
Flammability	4	
Reactivity	1	

NFPA Ratings

Health	1	
Fire	4	
Reactivity	1	
Special	-	

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.

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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