

Material Safety Data Sheet

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



RAID® MAX BED BUG & FLEA KILLER (EPA REG. # 1021-1767-4822)

Version 1.0

Print Date 07/28/2011

Revision Date 05/13/2011

MSDS Number 300000049640
GEN_SOF Number 43207

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

- Trade name : RAID® MAX BED BUG & FLEA KILLER (EPA REG. # 1021-1767-4822)
- Use of the Substance/Mixture : Insecticide
- Company : S.C. Johnson & Son, Inc.
1525 Howe Street
Racine WI 53403-2236
- Emergency telephone number : 24 Hour Transport & Medical Emergency Phone (866) 231-5406
24 Hour International Emergency Phone (952) 852-4647

2. HAZARDS IDENTIFICATION

Emergency Overview

- Appearance / Odor : off-white / aerosol / pleasant

Immediate Concerns

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

Potential Health Effects

- Exposure routes : Eye, Skin, Inhalation, Ingestion.
- Eyes : May cause:
Mild eye irritation
- Skin : May cause skin reactions in rare cases.
Prolonged or repeated contact may dry skin and cause irritation.
Harmful if absorbed through skin.
May cause systemic effects.
- Inhalation : May cause nose, throat, and lung irritation.
- Ingestion : May cause irritation to mouth, throat and stomach.
May cause abdominal discomfort.

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Aggravated Medical Condition : Persons with pre-existing skin disorders may be more susceptible to irritating effects. Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc. may be more susceptible to irritating effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous chemicals present at or above reportable levels as defined by OSHA 29 CFR 1910.1200 or the Canadian Controlled Products Regulations are listed in this table:

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

For additional information on product ingredients, see www.whatsinsidescjohnson.com.

4. FIRST AID MEASURES

Eye contact : Flush immediately with plenty of water for at least 15 to 20 minutes. Remove contact lenses. Get medical attention if irritation develops and persists.

Skin contact : Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Flush immediately with plenty of water for at least 15 to 20 minutes. Get medical attention immediately.

Inhalation : Remove to fresh air. If breathing is affected, get medical attention. If not breathing, give artificial respiration.

Ingestion : If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Do not give any liquid to the person. Never give anything by mouth to an unconscious person. Get medical attention immediately.

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5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific hazards during fire fighting : 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.
- Flash point : > -7 °C
> 19.4 °F
Note: Propellant
- Lower explosion limit : Note: no data available
- Upper explosion limit : Note: no data available
- NFPA Classification : NFPA Level 1 Aerosol

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Remove all sources of ignition.
Wear personal protective equipment.
- 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 for 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.
Clean residue from spill site.

7. HANDLING AND STORAGE

Handling

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Advice on safe handling : Do not puncture or incinerate.
Do not enter places where used or stored until adequately ventilated.
Avoid breathing vapors, mist or gas.
Do not spray toward face.
Do not use in areas without adequate ventilation.
Use only as directed.
KEEP OUT OF REACH OF CHILDREN AND PETS.
Smoking, eating and drinking should be prohibited in the application area.

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

Storage

Requirements for storage areas and containers : Keep away from food, drink and animal feedingstuffs.
Do not store at temperatures above 120 Deg. F (50 Deg C), as container may burst.
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 TWA
Distillates (petroleum), hydrotreated light	64742-47-8	1,200 mg/m3	152 ppm	-	SUPPLIER

Personal protective equipment

Respiratory protection

Industrial setting : Use only with adequate ventilation.
Do not spray in enclosed areas.

Household setting : Use only with adequate ventilation.

Hand protection : Rubber gloves

Eye protection

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Industrial setting : No special requirements.

Household setting : Avoid contact with eyes.

Skin and body protection : No special requirements.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Smoking, eating and drinking should be prohibited in the application area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : aerosol

Color : off-white

Odor : pleasant

pH : not applicable

Melting point : no data available

Boiling point : no data available

Freezing point : no data available

Flash point : > -7 °C
> 19.4 °F
Propellant

Evaporation rate : no data available

Flammability (solid, gas) : Sustains combustion

Autoignition temperature : does not ignite

Lower explosion limit : no data available

Upper explosion limit : no data available

Vapour pressure : Organic compounds with vapour pressure > 0.01 Kpa at 20 °C

Density : 0.94 g/cm³
at 70 °F

Water solubility : partly miscible

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Partition coefficient: n-octanol/water : no data available
Viscosity, dynamic : no data available
Viscosity, kinematic : no data available
Relative vapour density : no data available

10. STABILITY AND REACTIVITY

Conditions to avoid : Heat, flames and sparks.
Materials to avoid : Strong oxidizing agents
Hazardous decomposition products : Thermal decomposition can lead to release of irritating gases and vapours.
Hazardous reactions : Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50
estimated
> 5,000 mg/kg
Acute inhalation toxicity : LC50
estimated
> 2 mg/l
Acute dermal toxicity : LD50
estimated
> 2,000 mg/kg
Chronic effects
Carcinogenicity : no data available
Mutagenicity : no data available
Reproductive effects : no data available

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Teratogenicity : no data available

Sensitisation : Substance is not a sensitizer.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects : no data available

13. DISPOSAL CONSIDERATIONS

PESTICIDAL WASTE:
Observe all applicable Federal, Provincial and State regulations and Local/Municipal ordinances regarding disposal.
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.

15. REGULATORY INFORMATION

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.

16. OTHER INFORMATION

HMIS Ratings

Health	1
Flammability	4
Reactivity	0

NFPA Ratings

Health	1
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Fire	4
Reactivity	0
Special	

Further information

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