

# Material Safety Data Sheet

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



## RAID® HOUSE & GARDEN BUG KILLER FORMULA 7

Version 1.2

Print Date 08/12/2009

Revision Date 08/03/2009

MSDS Number 350000010288

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Product information

Trade name : RAID® HOUSE & GARDEN BUG KILLER FORMULA 7

Use of the Substance/Preparation Company : Insecticide  
: S.C. Johnson & Son, Inc.  
1525 Howe Street  
Racine WI 53403-2236

Emergency telephone : 24 Hour Transport & Medical Emergency Phone (866) 231-5406  
24 Hour International Emergency Phone (952) 852-4647

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

Appearance / Odor : opaque / aerosol / pleasant

#### 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. Harmful if absorbed through skin. Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist or gas.

#### Potential Health Effects

Routes of exposure : Eye, Skin, Inhalation, Ingestion.

Eyes : May cause:  
Mild eye irritation

Skin : Harmful if absorbed through skin.

Inhalation : Inhalation may cause central nervous system effects.

Ingestion : May be harmful if swallowed.

Aggravated Medical Condition : None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight %
Water	7732-18-5	60.00 - 100.00
Butane	106-97-8	5.00 - 10.00
Propane	74-98-6	3.00 - 7.00

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Distillates (petroleum), hydrotreated light	64742-47-8	3.00 - 7.00
Isobutane	75-28-5	3.00 - 7.00
Allethrin	584-79-2	0.239
d-Phenothrin	188023-86-1	0.096

### 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 : Flush immediately with plenty of water for at least 15 to 20 minutes. Get medical attention if irritation develops and persists.
- Inhalation : Remove to fresh air. If breathing is affected, get medical attention.
- Ingestion : Do NOT induce vomiting. 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 : Wear full protective clothing and positive pressure self-contained breathing apparatus. Fight fire from maximum distance or protected area. Cool and use caution when approaching or handling fire-exposed containers.
- Flash point : < 20 °F  
Method: Tag Closed Cup (TCC)  
Note: Propellant
- Flash point : < -7 °C  
Method: Tag Closed Cup (TCC)  
Note: Propellant
- Lower explosion limit : Note: no data available
- Upper explosion limit : Note: no data available

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NFPA Classification : NFPA Level 1 Aerosol

### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Remove all sources of ignition.
- Environmental precautions : Use appropriate containment to avoid environmental contamination.
- Methods for cleaning up : Soak up with inert absorbent material.  
Sweep up and shovel into suitable containers for disposal.

### 7. HANDLING AND STORAGE

#### Handling

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

- 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 store at temperatures above 120 Deg. F (50 Deg C), as container may burst.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Occupational Exposure Limits

Components	CAS-No.	mg/m3	ppm	Basis
Butane	106-97-8	-	1,000 ppm	ACGIH TWA
Propane	74-98-6	-	1,000 ppm	ACGIH TWA
Propane	74-98-6	1,800 mg/m3	1,000 ppm	OSHA TWA
Isobutane	75-28-5	-	1,000 ppm	ACGIH TWA

#### Personal protective equipment

##### Respiratory protection

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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 : In case of full contact:  
Rubber 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 and drink.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : aerosol

Color : opaque

Odor : pleasant

pH : not applicable

Boiling point : no data available

Flash point : < 20 °F  
Method: Tag Closed Cup (TCC)  
Propellant

Flash point : < -7 °C  
Method: Tag Closed Cup (TCC)  
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Evaporation rate : no data available

Autoignition temperature : no data available

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Lower explosion limit	:	no data available
Upper explosion limit	:	no data available
Vapour pressure	:	no data available
Density	:	0.85 g/cm <sup>3</sup>
Water solubility	:	slightly soluble

#### 10. STABILITY AND REACTIVITY

Conditions to avoid	:	Heat, flames and sparks.
Materials to avoid	:	Do not mix with oxidizing agents.
Hazardous decomposition products	:	When exposed to fire, produces normal products of combustion.
Hazardous reactions	:	Stable

#### 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	:	LD50 estimated > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 estimated > 2.0 mg/l
Acute dermal toxicity	:	LD50 estimated > 5,000 mg/kg
<b>Chronic effects</b>		
Carcinogenicity	:	no data available
Mutagenicity	:	no data available
Reproductive effects	:	no data available
Teratogenicity	:	no data available

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Sensitisation : Not known to be a sensitizer.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity effects** : Toxic to aquatic organisms.

### 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.

RCRA waste class : D001 (Ignitable Waste)

### 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:

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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 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
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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