

# Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1226



## RAID® CONCENTRATED DEEP REACH™ FOGGER

Version 1.0

Print Date 01/11/2011

Revision Date 12/21/2010

MSDS Number 350000004346  
SITE\_FORM Number  
300000000000000003669.002

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Product information

Trade name : RAID® CONCENTRATED DEEP REACH™ FOGGER

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 : clear amber / aerosol / pleasant

#### Immediate Concerns

: Caution  
CAUSES EYE IRRITATION.  
May be harmful if swallowed.  
May be harmful if inhaled.  
May be harmful if absorbed through skin.  
Avoid contact with skin, eyes and clothing.  
Avoid breathing vapors, mist or gas.  
Flammable.  
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.

#### Potential Health Effects

Exposure routes : Eye, Skin, Inhalation, Ingestion.

Eyes : Causes:  
Moderate eye irritation

Skin : May cause transient tingling and reddening of the skin.  
Causes sensitization.

Inhalation : May be harmful if inhaled.  
May cause systemic effects.

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- Ingestion : May be harmful if swallowed.  
May cause abdominal discomfort.  
Causes headache, drowsiness or other effects to the central nervous system.
- Aggravated Medical Condition : Persons with pre-existing skin disorders 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 |
|---|------------|----------------|
| Butane                                      | 106-97-8   | 30.00 - 60.00  |
| Propane                                     | 74-98-6    | 10.00 - 30.00  |
| Isobutane                                   | 75-28-5    | 10.00 - 30.00  |
| Ethyl alcohol                               | 64-17-5    | 5.00 - 10.00   |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | 1.00 - 5.00    |
| Cis-,Trans-Cypermethrin                     | 52315-07-8 | 1.00 - 5.00    |

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

### 4. FIRST AID MEASURES

- Eye contact : Remove contact lenses. Flush immediately with plenty of water for at least 15 to 20 minutes. Get medical attention if irritation develops and persists.
- Skin contact : Wash off immediately with plenty of water. Get medical attention if irritation develops and persists. If you suspect a reaction to this product, discontinue use and remove contaminated clothing.
- Inhalation : Remove to fresh air. If breathing is affected, get medical attention. If not breathing, give artificial respiration. Get medical attention immediately.
- Ingestion : If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. 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  
Method: Tag Closed Cup (TCC)  
Note: Propellant
- Lower explosion limit : Note: no data available
- Upper explosion limit : Note: no data available
- NFPA Classification : NFPA Level 3 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.

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#### 7. HANDLING AND STORAGE

##### Handling

Advice on safe handling : Avoid contact with skin, eyes and clothing.  
Do not puncture or incinerate.  
Do not enter places where used or stored until adequately ventilated.  
Avoid breathing vapors, mist or gas.  
For personal protection see section 8.  
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.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Occupational Exposure Limits

| Components                                  | CAS-No.    | mg/m3       | ppm       | Non-standard units | Basis      |
|---|------------|-------------|-----------|--------------------|------------|
| Butane                                      | 106-97-8   | -           | 1,000 ppm | -                  | ACGIH TWA  |
| Propane                                     | 74-98-6    | 1,800 mg/m3 | 1,000 ppm | -                  | OSHA TWA   |
| Propane                                     | 74-98-6    | -           | 1,000 ppm | -                  | ACGIH TWA  |
| Isobutane                                   | 75-28-5    | -           | 1,000 ppm | -                  | ACGIH TWA  |
| Ethyl alcohol                               | 64-17-5    | 1,900 mg/m3 | 1,000 ppm | -                  | OSHA TWA   |
| Ethyl alcohol                               | 64-17-5    | -           | 1,000 ppm | -                  | ACGIH STEL |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | 1,200 mg/m3 | 152 ppm   | -                  | SUPPLIER   |

#### Personal protective equipment

##### Respiratory protection

Industrial setting : Do not spray in enclosed areas.  
No personal respiratory protective equipment normally required.  
Substantial amounts of mist/vapors can be controlled with local exhaust ventilation or respiratory protection.  
A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Household setting : Use only with adequate ventilation.

**Hand protection** : In case of full contact:  
Rubber gloves

##### Eye protection

Industrial setting : Safety glasses with side-shields

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Household setting : Avoid contact with eyes.

**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  | : | clear amber  |
| Odor   | : | pleasant   |
| pH   | : | not applicable   |
| Boiling point  | : | no data available  |
| Freezing point                                       | : | no data available  |
| Flash point  | : | < -7 °C<br>< 19.4 °F<br>Method: Tag Closed Cup (TCC)<br>Propellant |
| Evaporation rate                                     | : | no data available  |
| Flammability (solid, gas)                            | : | no data available  |
| Autoignition temperature                             | : | no data available  |
| Lower explosion limit                                | : | no data available  |
| Upper explosion limit                                | : | no data available  |
| Vapour pressure                                      | : | no data available  |
| Density  | : | no data available  |
| Water solubility                                     | : | negligible   |
| Partition coefficient: n-octanol/water               | : | not applicable   |
| Volatile Organic Compounds (California Air Resource) | : | 95.4 % - does not include any applicable regulatory exemptions     |

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Board – CARB)  
Total VOC (wt. %)

#### 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  
4,896 mg/kg
- Acute inhalation toxicity : LC50  
estimated  
> 5.1 mg/l
- Acute dermal toxicity : LD50  
estimated  
> 5,000 mg/kg
- Chronic effects**
- Carcinogenicity : no data available
- Mutagenicity : no data available
- Reproductive effects : no data available
- Teratogenicity : no data available
- Sensitisation : Substance is a sensitizer.

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#### 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.

RCRA waste class : D001 (Ignitable Waste)

#### 14. TRANSPORT INFORMATION

##### Land transport

▪ **U.S. DOT and Canadian TDG Surface Transportation:**

Proper shipping name UN 1950 AEROSOLS, Flammable, 2.1

Class: 2.1

UN number 1950

Packaging group: None.

Note: SC Johnson ships this product as Consumer Commodity ORM-D (non-bulk packages)

##### Sea transport

▪ **IMDG:**

Proper shipping name UN 1950 AEROSOLS, Flammable, 2.1

Class: 2

UN number: 1950

Packaging group: None.

EmS: F-D, S-U

Note: Limited quantities derogation may be applicable to this product, please check transport documents.

##### Air transport

▪ **ICAO/IATA:**

Proper shipping name UN 1950 AEROSOLS, Flammable, 2.1

Class: 2.1

UN/ID No.: UN 1950

Packaging group: None.



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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.

**Registration # / Agency**  
4822-452/US/EPA

### 16. OTHER INFORMATION

#### HMIS Ratings

|              |   |
|--------------|---|
| Health       | 2 |
| Flammability | 4 |
| Reactivity   | 0 |

#### NFPA Ratings

|            |   |
|------------|---|
| Health     | 2 |
| 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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