**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product information**
- **Trade name**: RAID® WITH GERMFIGHTER™ ANT & ROACH KILLER
- **Use of the Substance/Preparation**: Insecticide
- **Company**: 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**: white / Mist / hydrocarbon-like
- **Immediate Concerns**: Caution
  MAY CAUSE IRRITATION. 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. May be harmful if inhaled. 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**: May cause skin irritation. May be harmful if absorbed through skin.
- **Inhalation**: May be harmful if inhaled.
- **Ingestion**: May be harmful if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage.
- **Aggravated Medical Condition**: None known.
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deionized Water</td>
<td>7732-18-5</td>
<td>30.00 - 60.00</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>64742-47-8</td>
<td>10.00 - 30.00</td>
</tr>
<tr>
<td>Isobutane</td>
<td>75-28-5</td>
<td>3.00 - 7.00</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>3.00 - 7.00</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>3.00 - 7.00</td>
</tr>
<tr>
<td>Piperonyl butoxide</td>
<td>51-03-6</td>
<td>0.25</td>
</tr>
<tr>
<td>Permethrin</td>
<td>52645-53-1</td>
<td>0.20</td>
</tr>
<tr>
<td>o-Phenylphenol</td>
<td>90-43-7</td>
<td>0.10</td>
</tr>
<tr>
<td>Pyrethrins</td>
<td>8003-34-7</td>
<td>0.10</td>
</tr>
</tbody>
</table>

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. If breathing has stopped, apply artificial respiration.
- **Ingestion**: If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. 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**: Cool and use caution when approaching or handling fire-exposed containers. Wear full protective clothing and positive pressure self-contained breathing apparatus. Fight fire from maximum distance or protected area.
- **Flash point**: < 20 °F
RAID® WITH GERMFIGHTER™ ANT & ROACH KILLER

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

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.  
Dike large spills.

7. HANDLING AND STORAGE

Handling

Advice on safe handling : Do not puncture or incinerate.  
Keep away from heat, sparks and flame.  
Avoid contact with skin, eyes and clothing.  
Avoid breathing vapors, mist or gas.  
KEEP OUT OF REACH OF CHILDREN AND PETS.

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.  
Keep container closed when not in use.
RAID® WITH GERMFIGHTER™ ANT & ROACH KILLER

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>mg/m3</th>
<th>ppm</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isobutane</td>
<td>75-28-5</td>
<td></td>
<td>1,000 ppm</td>
<td>ACGIH TWA</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td></td>
<td>1,000 ppm</td>
<td>ACGIH TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,800 mg/m3</td>
<td>1,000 ppm</td>
<td>OSHA TWA</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>400 ppm</td>
<td>ACGIH STEL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>200 ppm</td>
<td>ACGIH TWA</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>980 mg/m3</td>
<td>400 ppm</td>
<td>OSHA TWA</td>
</tr>
<tr>
<td>Pyrethrins</td>
<td>8003-34-7</td>
<td>5 mg/m3</td>
<td>ACGIH TWA</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 mg/m3</td>
<td>OSHA TWA</td>
<td></td>
</tr>
</tbody>
</table>

Personal protective equipment

Respiratory protection : Substantial amounts of mist/vapors can be controlled with local exhaust ventilation or respiratory protection.

Hand protection : not required under normal use For prolonged or repeated contact use protective gloves.

Eye protection : No special requirements.

Hygiene measures : Use only with adequate ventilation. Wash thoroughly after handling. Keep away from food, drink and animal feedingstuffs.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Mist
Color : white
Odor : hydrocarbon-like
pH : not applicable
Melting point : no data available
Boiling point : no data available

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

Flash point : < -7 °C
  Method: Tag Closed Cup (TCC)
  Propellant

Evaporation rate : 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

Water solubility : slightly soluble

Partition coefficient: n-octanol/water : no data available

Solubility in other solvents : not applicable

Viscosity, dynamic : no data available

Specific Gravity : no data available

Percent volatile : no data available

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 rat
  Dose: estimated > 5,000 mg/kg
RAID® WITH GERMFIGHTER™ ANT & ROACH KILLER

Acute inhalation toxicity : LC50 rat
Dose: > 2.09 mg/l

Acute dermal toxicity : LD50 rabbit
Dose: 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 : Not known to be a sensitizer.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects : Not Available

13. DISPOSAL CONSIDERATIONS

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

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)
RAID® WITH GERMFIGHTER™ ANT & ROACH KILLER

Version 1. Print Date 08/25/2008
Revision Date 08/22/2008 MSDS Number 350000004657

15. REGULATORY INFORMATION

Global Chemical Inventories

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.
EPA Registration Number : 4822-479

16. OTHER INFORMATION

HMIS Ratings

| Health | 2 |

7/8
RAID® WITH GERMFIGHTER™ ANT & ROACH KILLER

Version 1.  Print Date 08/25/2008
Revision Date 08/22/2008  MSDS Number 350000004657

| Flammability | 4 |
| Reactivity   | 0 |

**NFPA Ratings**

| Health | 2 |
| Fire   | 4 |
| Reactivity | 0 |

**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)