Material Safety Data Sheet
according to ANSI Z400.1-2004 and 29 CFR 1910.1200

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OFF!® DEEP WOODS® INSECT REPELLENT VIII - DRY

Version 1.0 Print Date 03/04/2011
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SITE_FORM Number 30000000000000011902.001

1. PRODUCT AND COMPANY IDENTIFICATION

Product information
Trade name: OFF!® DEEP WOODS® INSECT REPELLENT VIII - DRY
Use of the Substance/Mixture : Insect Repellent
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 : white / aerosol / pleasant
Immediate Concerns : Warning
FLAMMABLE:
CAUSES EYE IRRITATION.
Keep away from heat, sparks and flame.
Harmful if swallowed.
Contents under pressure.
Do not puncture or incinerate.
Do not store at temperatures above 120 Deg. F (50 Deg C), as container may burst.
Avoid contact with eyes and lips.

Potential Health Effects
Exposure routes : Eye, Skin, Inhalation, Ingestion.

Eyes : Causes:
Moderate eye irritation

Skin : May cause skin reactions in rare cases.

Inhalation : Inhalation may cause central nervous system effects.
May cause nose, throat, and lung irritation.

Ingestion : Causes headache, drowsiness or other effects to the central nervous system.
Harmful if swallowed.
Aggravated Medical Condition: Do not apply to cuts or irritated skin. 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:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Weight percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>N,N-Diethyl-m-toluamide</td>
<td>134-62-3</td>
<td>10.00 - 30.00</td>
</tr>
<tr>
<td>Ethyl alcohol</td>
<td>64-17-5</td>
<td>10.00 - 30.00</td>
</tr>
<tr>
<td>Butane</td>
<td>106-97-8</td>
<td>10.00 - 30.00</td>
</tr>
<tr>
<td>Corn starch</td>
<td>9005-25-8</td>
<td>10.00 - 30.00</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>5.00 - 10.00</td>
</tr>
<tr>
<td>Isobutane</td>
<td>75-28-5</td>
<td>5.00 - 10.00</td>
</tr>
<tr>
<td>Magnesium carbonate</td>
<td>546-93-0</td>
<td>1.00 - 5.00</td>
</tr>
</tbody>
</table>

For additional information on product ingredients, see 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.

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.

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. Burns with colourless flame.

Further information: Fight fire from maximum distance or protected area. Cool and use caution when approaching or handling fire-exposed containers. For large quantities of flammable liquids, consider containment to prevent the spread of fire. 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 2 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.  
Dike large spills.  
Clean residue from spill site.

7. HANDLING AND STORAGE

Handling

Advice on safe handling: Do not puncture or incinerate. Avoid contact with eyes and lips.
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.
Take measures to prevent the build up of electrostatic charge.

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**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>mg/m3</th>
<th>ppm</th>
<th>Non-standard units</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>64-17-5</td>
<td>-</td>
<td>1,000 ppm</td>
<td>-</td>
<td>ACGIH TWA</td>
</tr>
<tr>
<td>Ethyl alcohol</td>
<td>64-17-5</td>
<td>1,900 mg/m3</td>
<td>1,000 ppm</td>
<td>-</td>
<td>OSHA TWA</td>
</tr>
<tr>
<td>Butane</td>
<td>106-97-8</td>
<td>-</td>
<td>1,000 ppm</td>
<td>-</td>
<td>ACGIH TWA</td>
</tr>
<tr>
<td>Corn starch</td>
<td>9005-25-8</td>
<td>5 mg/m3</td>
<td>-</td>
<td>-</td>
<td>OSHA TWA</td>
</tr>
<tr>
<td>Corn starch</td>
<td>9005-25-8</td>
<td>15 mg/m3</td>
<td>-</td>
<td>-</td>
<td>OSHA TWA</td>
</tr>
<tr>
<td>Corn starch</td>
<td>9005-25-8</td>
<td>10 mg/m3</td>
<td>-</td>
<td>-</td>
<td>ACGIH TWA</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>1,800 mg/m3</td>
<td>1,000 ppm</td>
<td>-</td>
<td>OSHA TWA</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>-</td>
<td>1,000 ppm</td>
<td>-</td>
<td>ACGIH TWA</td>
</tr>
<tr>
<td>Isobutane</td>
<td>75-28-5</td>
<td>-</td>
<td>1,000 ppm</td>
<td>-</td>
<td>ACGIH TWA</td>
</tr>
<tr>
<td>Magnesium carbonate</td>
<td>546-93-0</td>
<td>5 mg/m3</td>
<td>-</td>
<td>-</td>
<td>OSHA TWA</td>
</tr>
<tr>
<td>Magnesium carbonate</td>
<td>546-93-0</td>
<td>15 mg/m3</td>
<td>-</td>
<td>-</td>
<td>OSHA TWA</td>
</tr>
</tbody>
</table>

**Personal protective equipment**

**Respiratory protection**

- **Industrial setting**: Use only with adequate ventilation. Do not spray in enclosed areas.
- **Household setting**: No special requirements.

**Hand protection**: No special requirements.

**Eye protection**
Industrial setting: Safety glasses with side-shields
Household setting: 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. Smoking, eating and drinking should be prohibited in the application area.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Form**: aerosol
- **Color**: white
- **Odor**: pleasant
- **pH**: 10.3 (as aqueous solution)
- **Boiling point**: no data available
- **Freezing point**: no data available
- **Flash point**: < -7 °C
  < 19.4 °F
- **Propellant**: no data available
- **Evaporation rate**: no data available
- **Flammability (solid, gas)**: Sustains combustion
- **Autoignition temperature**: no data available
- **Lower explosion limit**: no data available
- **Upper explosion limit**: no data available
- **Vapour pressure**: no data available
- **Density**: 0.82 g/cm³
- **Water solubility**: dispersible
- **Viscosity, dynamic**: no data available
10. STABILITY AND REACTIVITY

Conditions to avoid : Heat, flames and sparks.
Materials to avoid : Strong oxidizing agents
                    Strong acids
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 > 2,000 mg/kg
Acute inhalation toxicity : LC50 estimated > 2.25 mg/l
Acute dermal toxicity : LD50 estimated > 2 g/kg
                      No adverse effects expected when used as directed.
Chronic effects
Carcinogenicity : no data available
Mutagenicity : no data available
Reproductive effects : no data available
Teratogenicity : no data available
Sensitisation : May cause skin reactions in rare cases.

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)
SCJ product category : AF: Aerosol Flammable

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.
  - 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 does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
- Canada Regulations: This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Registration # / Agency
4822-572/US/EPA

16. OTHER INFORMATION

HMIS Ratings

<p>| | |</p>
<table>
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<tr>
<td>Flammability</td>
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</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
</tbody>
</table>

NFPA Ratings

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
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<td>Fire</td>
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</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
<tr>
<td>Special</td>
<td></td>
</tr>
</tbody>
</table>

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