

Material Safety Data Sheet

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



OFF!® DEEP WOODS® INSECT REPELLENT VIII

Version 3.0

Print Date 11/12/2012

Revision Date 08/22/2012

MSDS Number 350000015104
SITE_FORM Number
3000000000000011592.002

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Trade name : OFF!® DEEP WOODS® INSECT REPELLENT VIII

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 Medical Emergency Phone: (866)231-5406
24 Hour International Emergency Phone: (703)527-3887
24 Hour Transport Emergency Phone: (800)424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance / Odor : white / aerosol / pleasant

Immediate Concerns

: Warning
FLAMMABLE:
CAUSES EYE IRRITATION.
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.
Keep away from heat, sparks and flame.
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.

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



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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:

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

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.

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



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5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific hazards during firefighting : 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. 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.
Clean residue from spill site.

7. HANDLING AND STORAGE

Handling

Material Safety Data Sheet

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Version 3.0

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Revision Date 08/22/2012

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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.

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.

Material Safety Data Sheet

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



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Version 3.0

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Revision Date 08/22/2012

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

| Components | CAS-No. | mg/m ³ | ppm | Non-standard units | Basis |
|---------------------|-----------|-------------------------|-----------|--------------------|------------|
| Ethyl alcohol | 64-17-5 | 1,900 mg/m ³ | 1,000 ppm | - | OSHA TWA |
| Ethyl alcohol | 64-17-5 | - | 1,000 ppm | - | ACGIH STEL |
| Butane | 106-97-8 | - | 1,000 ppm | - | ACGIH TWA |
| Corn starch | 9005-25-8 | 5 mg/m ³ | - | - | OSHA TWA |
| Corn starch | 9005-25-8 | 15 mg/m ³ | - | - | OSHA TWA |
| Corn starch | 9005-25-8 | 10 mg/m ³ | - | - | ACGIH TWA |
| Propane | 74-98-6 | 1,800 mg/m ³ | 1,000 ppm | - | OSHA TWA |
| Propane | 74-98-6 | - | 1,000 ppm | - | ACGIH TWA |
| Isobutane | 75-28-5 | - | 1,000 ppm | - | ACGIH TWA |
| Magnesium carbonate | 546-93-0 | 5 mg/m ³ | - | - | OSHA TWA |
| Magnesium carbonate | 546-93-0 | 15 mg/m ³ | - | - | OSHA TWA |

Personal protective equipment

Respiratory protection

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

Hand protection

: No special requirements.

Eye protection

Safety glasses with side-shields

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

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Version 3.0

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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 |
| Evaporation rate | : | no data available |
| Flammability (solid, gas) | : | Sustains combustion |
| Auto-ignition 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/cm ³ |
| Water solubility | : | dispersible |
| Viscosity, dynamic | : | no data available |
| Volatile Organic Compounds Total VOC (wt. %)* | : | 52.6 % - additional exemptions may apply *as defined by US Federal and State Consumer Product Regulations |

10. STABILITY AND REACTIVITY

Conditions to avoid : Heat, flames and sparks.

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SITE_FORM Number

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- Materials to avoid : Strong acids
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
> 2,000 mg/kg

Acute inhalation toxicity : LC50
estimated
> 2.79 mg/l

Acute dermal toxicity : LD50
estimated
> 5,000 mg/kg

Chronic effects

Carcinogenicity : None Anticipated

Mutagenicity : None Anticipated

Reproductive effects : None Anticipated

Teratogenicity : None Anticipated

Sensitisation : May cause skin reactions in rare cases.

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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)

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

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:**

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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. 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.

Notification status : All ingredients of this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).

California Prop. 65 : This product is not subject to the reporting requirements under California's Proposition 65.

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

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

NFPA Ratings

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