

# Material Safety Data Sheet

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



## OFF!® DEEP WOODS® INSECT REPELLENT VIII - DRY

Version 1.0

Print Date 01/18/2011

Revision Date 09/09/2010

MSDS Number 350000015760

SITE\_FORM Number  
3000000000000011902.001

### 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.

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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](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.

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.

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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.

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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.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Occupational Exposure Limits

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

#### 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**

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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

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/cm<sup>3</sup>

Water solubility : dispersible

Viscosity, dynamic : no data available

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Volatile Organic Compounds : 52.5 % - does not include any applicable regulatory  
(California Air Resource exemptions  
Board – CARB)  
Total VOC (wt. %)

### 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

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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.



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### 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.

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

Health	2
Flammability	4
Reactivity	0

#### NFPA Ratings

Health	2
Fire	4
Reactivity	0
Special	

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**Further information**

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