

Material Safety Data Sheet

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



OFF!® DEEP WOODS® INSECT REPELLENT V

Version 1.

Print Date 09/30/2009

Revision Date 09/28/2009

MSDS Number 350000003990
SITE_FORM Number
30000000000000003321.001

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

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

Use of the Substance/Mixture : Insect Repellent

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 : clear / aerosol / characteristic

Immediate Concerns

: Caution
CAUSES EYE IRRITATION.
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. May be harmful if swallowed. Avoid contact with eyes and lips.

Potential Health Effects

Exposure routes : Eye, Skin, Inhalation, Ingestion.

Eyes : May cause:
Moderate eye irritation

Skin : May cause skin reactions in rare cases.

Inhalation : Inhalation may cause central nervous system effects.

Ingestion : May be harmful if swallowed.
May cause irritation to mouth, throat and stomach.
Causes headache, drowsiness or other effects to the central nervous system.

Aggravated Medical Condition : None known.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight percent
Ethyl alcohol	64-17-5	30.00 - 60.00
N,N-Diethyl-m-toluamide	134-62-3	25.00
Water	7732-18-5	7.00 - 13.00
Butane	106-97-8	1.00 - 5.00
Propane	74-98-6	1.00 - 5.00
Isobutane	75-28-5	1.00 - 5.00

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 : Wash off with soap and water. Get medical attention if irritation develops and persists.
- Inhalation : If breathing is affected, get medical attention. Remove to fresh air.
- Ingestion : Do NOT induce vomiting. 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 : Wear full protective clothing and positive pressure self-contained breathing apparatus. Fight fire from maximum distance or protected area. Cool and use caution when approaching or handling fire-exposed containers.
- Flash point : < 20 °F
Method: Tag Closed Cup (TCC)
Note: Propellant
- Lower explosion limit : Note: no data available

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Upper explosion limit : Note: no data available

NFPA Classification : NFPA Level 2 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 : Use only as directed.
KEEP OUT OF REACH OF CHILDREN AND PETS.
Avoid contact with eyes and lips.
Do not puncture or incinerate.

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.
Do not store at temperatures above 120 Deg. F (50 Deg C), as container may burst.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Components	CAS-No.	mg/m3	ppm	Basis
Ethyl alcohol	64-17-5	-	1,000 ppm	ACGIH TWA
Ethyl alcohol	64-17-5	1,900 mg/m3	1,000 ppm	OSHA TWA
Butane	106-97-8	-	1,000 ppm	ACGIH TWA
Propane	74-98-6	-	1,000 ppm	ACGIH TWA
Propane	74-98-6	1,800 mg/m3	1,000 ppm	OSHA TWA
Isobutane	75-28-5	-	1,000 ppm	ACGIH TWA

Personal protective equipment

Respiratory protection

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

Household setting : No personal respiratory protective equipment normally required.

Hand protection

Industrial setting : For prolonged or repeated contact use protective gloves.

Household setting : not required under normal use

Eye protection

Industrial setting : If prolonged or repeated contact is possible:
Safety glasses with side-shields

Household setting : No special requirements.

Hygiene measures : Use only with adequate ventilation. Wash thoroughly after handling. Wear suitable protective clothing.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	aerosol
Color	:	clear
Odor	:	characteristic
pH	:	not applicable
Boiling point	:	no data available
Freezing point	:	not applicable
Flash point	:	< 20 °F 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
Density	:	0.84 g/cm ³
Water solubility	:	soluble
Partition coefficient: n-octanol/water	:	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

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11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50
3,735 mg/kg

Acute inhalation toxicity : LC50
> 2.18 mg/l

Acute dermal toxicity : LD50
> 2,000 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 : no data available

13. DISPOSAL CONSIDERATIONS

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

Household setting : Consumer may discard empty container in trash, or recycle where facilities exist.

RCRA waste class : D001 (Ignitable Waste)

SCJ product category : AF: Aerosol Flammable

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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)

Sea transport

- *IMDG:*

Class: 2.1
Packaging group: None.
Proper shipping name Aerosols, flammable
UN-Number: 1950

Note: SC Johnson ships this product as "Limited Quantity" when the container quantity value is 1 Liter or less.

Air transport

- *ICAO/IATA:*

Class: 2.1
Packaging group: None.
Proper shipping name Aerosols, flammable
UN/ID No.: UN 1950

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.

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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
4822-167/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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