

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF!® DEEP WOODS® INSECT REPELLENT V (EPA Reg. No. 4822-167)**

Version 2.0

Print Date 01/17/2020

Revision Date 06/13/2016

SDS Number 350000004807

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product information**

- Product name** : OFF!® DEEP WOODS® INSECT REPELLENT V (EPA Reg. No. 4822-167)
- Recommended use** : Insect Repellent
- Manufacturer, importer, supplier** : S.C. Johnson & Son, Inc.  
1525 Howe Street  
Racine WI 53403-2236
- Telephone** : +18005585252
- Emergency telephone number** : 24 Hour Medical Emergency Phone: (866)231-5406  
24 Hour Transport Emergency Phone: (800)424-9300

**2. HAZARDS IDENTIFICATION**

**Classification of the substance or mixture**

**Globally Harmonized System (GHS) Classification**

Hazard classification	Hazard category	Hazards identification
Aerosol	Category 1	Extremely flammable aerosol.
Gases under pressure	Liquefied gas	Contains gas under pressure; may explode if heated.

**Labelling**

**Hazard symbols**

Flame  
Gas cylinder

**Signal word**

Danger

**Hazard statements**

Extremely flammable aerosol.  
Contains gas under pressure; may explode if heated.

**Precautionary statements**

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.  
Protect from sunlight. Store in a well-ventilated place.

## Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



# OFF!® DEEP WOODS® INSECT REPELLENT V (EPA Reg. No. 4822-167)

Version 2.0

Print Date 01/17/2020

Revision Date 06/13/2016

SDS Number 350000004807

Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
Do not spray on an open flame or other ignition source.  
Do not pierce or burn, even after use.

**Other hazards** : None identified

### 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	10.00 - 30.00
Butane	106-97-8	1.00 - 5.00
Propane	74-98-6	1.00 - 5.00
Isobutane	75-28-5	1.00 - 5.00

The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

For additional information on product ingredients, see [www.whatsinsidescjohnson.com](http://www.whatsinsidescjohnson.com).

### 4. FIRST AID MEASURES

- Eye contact** : No special requirements
- Skin contact** : If you suspect a reaction to this product, discontinue use and remove contaminated clothing.
- Inhalation** : No special requirements.
- Ingestion** : No special requirements

### 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

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF!® DEEP WOODS® INSECT REPELLENT V (EPA Reg. No. 4822-167)**

Version 2.0

Print Date 01/17/2020

Revision Date 06/13/2016

SDS Number 350000004807

water courses.

**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.

**NFPA Classification** : NFPA Level 2 Aerosol

---

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions** : Remove all sources of ignition.  
Wear personal protective equipment.  
Wash thoroughly after handling.

**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 and materials for containment and 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**

**Precautions for safe handling** : Avoid contact with eyes and lips.  
For personal protection see section 8.  
Use only as directed.  
KEEP OUT OF REACH OF CHILDREN AND PETS.  
Pressurized container.  
Do not pierce or burn, even after use.

**Advice on protection** : Keep away from sources of ignition - No smoking.

## Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



## OFF!® DEEP WOODS® INSECT REPELLENT V (EPA Reg. No. 4822-167)

Version 2.0

Print Date 01/17/2020

Revision Date 06/13/2016

SDS Number 350000004807

**against fire and explosion** Do not spray on an open flame or other ignition source.

### Storage

**Requirements for storage areas and containers** : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.  
Keep away from food, drink and animal feedingstuffs.  
Keep in a dry, cool and well-ventilated place.

**Other data** : Stable under recommended storage conditions.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational Exposure Limits

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

### Personal protective equipment

**Respiratory protection** : Do not spray in enclosed areas.

**Hand protection** : No special requirements.

**Eye protection** : No special requirements.

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF!® DEEP WOODS® INSECT REPELLENT V (EPA Reg. No. 4822-167)**

Version 2.0

Print Date 01/17/2020

Revision Date 06/13/2016

SDS Number 350000004807

**Skin and body protection** : No special requirements.

**Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Form** : aerosol

**Form** : Compressed gas

**Color** : clear

**Odor** : Alcohol Odor

**Odour Threshold** : No data available

**pH** : No data available

**Melting point/freezing point** : No data available

**Initial boiling point and boiling range** : No data available

**Flash point** : -7 °C  
19.4 °F

**Evaporation rate** : No data available

**Flammability (solid, gas)** : No data available

**Upper/lower flammability or explosive limits** : No data available

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF!® DEEP WOODS® INSECT REPELLENT V (EPA Reg. No. 4822-167)**

Version 2.0

Print Date 01/17/2020

Revision Date 06/13/2016

SDS Number 350000004807

<b>Vapour pressure</b>	:	No data available	
<b>Vapour density</b>	:	No data available	
<b>Relative density</b>	:	0.84 g/ml at 21 °C	
<b>Solubility(ies)</b>	:	slightly soluble	
<b>Partition coefficient: n-octanol/water</b>	:	No data available	
<b>Auto-ignition temperature</b>	:	No data available	
<b>Decomposition temperature</b>	:	No data available	
<b>Viscosity, dynamic</b>	:	No data available	
<b>Viscosity, kinematic</b>	:	No data available	
<b>Oxidizing properties</b>	:	No data available	
<b>Volatile Organic Compounds Total VOC (wt. %)*</b>	:	64.2 % - additional exemptions may apply *as defined by US Federal and State Consumer Product Regulations	
<b>Other information</b>	:	None identified	:

---

**10. STABILITY AND REACTIVITY**

**Possibility of hazardous reactions** : Stable under recommended storage conditions.

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF!® DEEP WOODS® INSECT REPELLENT V (EPA Reg. No. 4822-167)**

Version 2.0

Print Date 01/17/2020

Revision Date 06/13/2016

SDS Number 350000004807

**Conditions to avoid** : Heat, flames and sparks.

**Incompatible materials** : Strong oxidizing agents

**Hazardous decomposition products** : Thermal decomposition can lead to release of irritating gases and vapours.

**11. TOXICOLOGICAL INFORMATION**

**Emergency Overview** : Danger

**Acute oral toxicity** :

**Acute inhalation toxicity** :

**Acute dermal toxicity** :

GHS Properties	Classification	Routes of entry
Acute toxicity	No classification proposed	-
Skin corrosion/irritation	No classification proposed	-
Serious eye damage/eye irritation	No classification proposed	-
Skin sensitisation	No classification proposed	-
Respiratory sensitisation	No classification proposed	-
Germ cell mutagenicity	No classification proposed	-
Carcinogenicity	No classification proposed	-
Reproductive toxicity	No classification proposed	-
Specific target organ toxicity - single exposure	No classification proposed	-
Specific target organ toxicity - repeated exposure	No classification proposed	-

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF!® DEEP WOODS® INSECT REPELLENT V (EPA Reg. No. 4822-167)**

Version 2.0

Print Date 01/17/2020

Revision Date 06/13/2016

SDS Number 350000004807

Aspiration hazard	No classification proposed	-
-------------------	----------------------------	---

**Aggravated Medical Condition** :

**12. ECOLOGICAL INFORMATION**

**Product** : The product itself has not been tested.

**Toxicity**

The ingredients in this formula have been reviewed and no adverse impact to the environment is expected when used according to label directions.

**Toxicity to fish**

Components	End point	Species	Value	Exposure time
Ethyl alcohol	LC50	Fish	11,200 mg/l	96 h
N,N-Diethyl-m-toluamide	static test LC50	Oncorhynchus mykiss (rainbow trout)	71.25 mg/l	96 h
Butane	LC50 QSAR	Fish	27.98 mg/l	96 h
Propane	LC50	Fish	27.98 mg/l	96 h
Isobutane	LC50 QSAR	Fish	27.98 mg/l	96 h

**Toxicity to aquatic invertebrates**

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200

**OFF!® DEEP WOODS® INSECT REPELLENT V (EPA Reg. No. 4822-167)**

Version 2.0

Print Date 01/17/2020

Revision Date 06/13/2016

SDS Number 350000004807

Components	End point	Species	Value	Exposure time
Ethyl alcohol	static test LC50	Ceriodaphnia dubia	5,012 mg/l	48 h
	NOEC	Daphnia magna	9.6 mg/l	9 d
N,N-Diethyl-m-toluamide	LC50	Daphnia magna (Water flea)	75 mg/l	51 h
	semi-static test NOEC Measured OECD Guideline 211 (Daphnia magna Reproduction Test)	Daphnia magna	3.7 mg/l	21 d
Butane	No data available			
Propane	LC50	Daphnid	14.22 mg/l	48 h
Isobutane	LC50 QSAR	Daphnid	16.33 mg/l	48 h

**Toxicity to aquatic plants**

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200

**OFF!® DEEP WOODS® INSECT REPELLENT V (EPA Reg. No. 4822-167)**

Version 2.0

Print Date 01/17/2020

Revision Date 06/13/2016

SDS Number 350000004807

Components	End point	Species	Value	Exposure time
Ethyl alcohol	Static EC50	Chlorella vulgaris (Fresh water algae)	275 mg/l	72 h
N,N-Diethyl-m-toluamide	NOEC	Pseudokirchneriella subcapitata (green algae)	0.521 mg/l	96 h
Butane	EC50 QSAR	Green algae	7.71 mg/l	96 h
Propane	No data available			
Isobutane	EC50 QSAR	Green algae	8.57 mg/l	96 h

**Persistence and degradability**

Component	Biodegradation	Exposure time	Summary
Ethyl alcohol	97 %	28 d	Readily biodegradable
N,N-Diethyl-m-toluamide	83.8 %	28 d	Readily biodegradable
Butane	100 %	385.5 h	Readily biodegradable
Propane	70 %	< 10 d	Readily biodegradable
Isobutane	70 %	< 10 d	Readily biodegradable

**Bioaccumulative potential**

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
Ethyl alcohol	3.2 estimated	-0.35 Measured
N,N-Diethyl-m-toluamide	21.9 estimated	2.4
Butane	No data available	2.89
Propane	No data available	2.36
Isobutane	1.57 - 1.97	2.8

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF!® DEEP WOODS® INSECT REPELLENT V (EPA Reg. No. 4822-167)**

Version 2.0

Print Date 01/17/2020

Revision Date 06/13/2016

SDS Number 350000004807

**Mobility**

Component	End point	Value
Ethyl alcohol	No data available	
N,N-Diethyl-m-toluamide	Koc	43.3
Butane	No data available	
Propane	No data available	
Isobutane	No data available	

**PBT and vPvB assessment**

Component	Results
Ethyl alcohol	Not fulfilling PBT and vPvB criteria
N,N-Diethyl-m-toluamide	Not fulfilling PBT and vPvB criteria
Butane	Not fulfilling PBT and vPvB criteria
Propane	Not fulfilling PBT and vPvB criteria
Isobutane	Not fulfilling PBT and vPvB criteria

**Other adverse effects** : None known.

**13. DISPOSAL CONSIDERATIONS**

**PESTICIDAL WASTE:**

For disposal information, please read and follow Disposal instructions on the pesticide label.  
Consumer may discard empty container in household waste, or recycle where facilities exist.

**PESTICIDAL WASTE:**

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

## Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



# OFF!® DEEP WOODS® INSECT REPELLENT V (EPA Reg. No. 4822-167)

Version 2.0

Print Date 01/17/2020

Revision Date 06/13/2016

SDS Number 350000004807

## 14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/receiving documents for up-to-date shipping information.

	Land transport	Sea transport	Air transport
<b>UN number</b>	1950	1950	1950
<b>UN proper shipping name</b>	AEROSOLS, Flammable	AEROSOLS, Flammable	AEROSOLS, Flammable
<b>Transport hazard class(es)</b>	2.1	2	2.1
<b>Packing group</b>	-	-	-
<b>Environmental hazards</b>	-	-	-
<b>Special precautions for user</b>	Limited quantities derogation may be applicable to this product, please check transport documents.	Limited quantities derogation may be applicable to this product, please check transport documents.	Limited quantities derogation may be applicable to this product, please check transport documents.

## 15. REGULATORY INFORMATION

### FIFRA Labeling

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

Following is the hazard information as required on the pesticide label:

#### CAUTION:

Causes moderate eye irritation.

Harmful if swallowed.

Use of this product may cause skin reactions in rare cases.

Flammable.

Contents under pressure.

Exposure to temperatures above 120° F may cause bursting.

**Notification status** : All ingredients of this product are listed or are excluded from

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF!® DEEP WOODS® INSECT REPELLENT V (EPA Reg. No. 4822-167)**

Version 2.0

Print Date 01/17/2020

Revision Date 06/13/2016

SDS Number 350000004807

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.

**Registration # / Agency**  
4822-167/US/EPA

---

**16. OTHER INFORMATION**

**HMIS Ratings**

<b>Health</b>	2
<b>Flammability</b>	4
<b>Reactivity</b>	0

**NFPA Ratings**

<b>Health</b>	2
<b>Fire</b>	4
<b>Reactivity</b>	0
<b>Special</b>	-

This information is being provided in accordance with the Occupational Safety and Health Administration (OSHA) regulation (29 CFR 1910.1200). The information supplied is designed for workplaces where product use and frequency of exposure exceeds that established for the labeled consumer use.

**Further information**

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF!® DEEP WOODS® INSECT REPELLENT V (EPA Reg. No. 4822-167)**

Version 2.0

Print Date 01/17/2020

Revision Date 06/13/2016

SDS Number 350000004807

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)
-------------	--