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 08/18/2021

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, : S.C. Johnson & Son, Inc.

**supplier** 1525 Howe Street

Racine WI 53403-2236

**Telephone** : +18005585252

**Emergency telephone** : 24 Hour Medical Emergency Phone: (866)231-5406

**number** 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.

according to Hazard Communication Standard; 29 CFR 1910.1200



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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.

### 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

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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.

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**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.

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

: Handle in accordance with good industrial hygiene and safety Hygiene measures

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

pН : 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 : No data available

explosive limits

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Vapour pressure : No data available

Vapour density : No data available

Relative density : 0.84 g/ml at 21 °C

Solubility(ies) : slightly soluble

Partition coefficient: n-

octanol/water

: No data available

**Auto-ignition temperature** : No data available

**Decomposition temperature** : No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

Volatile Organic : 64.2 % - additional exemptions may apply

Compounds \*as defined by US Federal and State Consumer Product

Total VOC (wt. %)\* Regulations

Other information : None identified :

#### 10. STABILITY AND REACTIVITY

Possibility of hazardous

reactions

: Stable under recommended storage conditions.

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**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 :

<b>GHS Properties</b>	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	-

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Aspiration hazard	No classification proposed	-	
Aggravated Medical	:		

### 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**

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Components	End point	Species	Value	Exposure time
Ethyl alcohol	static test LC50	Ceriodaphnia dubia	5.042 mg/l	48 h
			5,012 mg/l	
	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 Reproduct ion 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

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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

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## **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

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### 14. TRANSPORT INFORMATION

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

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

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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.

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Registration # / Agency

4822-167/US/EPA

## **16. OTHER INFORMATION**

HMIS Ratings
Health
Flammability

**Reactivity** 0

**NFPA Ratings** 

Health	2	
Fire	4	
Reactivity	0	
Special	-	

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**

according to Hazard Communication Standard; 29 CFR 1910.1200



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