

## Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



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

Version 4.0

Print Date 10/23/2025

Revision Date 02/26/2025

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** : +1 8005585252  
**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.

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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.

Pressurized container: Do not pierce or burn, even after use.

**Other hazards** : Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.  
Excessive exposure to spray mist, fog or vapour may cause respiratory irritation.

## 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.

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**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.

**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.

## 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.

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**Advice on protection against fire and explosion** : Keep away from sources of ignition - No smoking.  
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.  
Protect from sunlight.  
Store in a 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  | -           | 1,000 ppm | -                  | ACGIH STEL |
| Ethyl alcohol | 64-17-5  | 1,900 mg/m3 | 1,000 ppm | -                  | OSHA TWA   |
| Butane        | 106-97-8 | -           | 1,000 ppm | -                  | ACGIH STEL |
| Propane       | 74-98-6  | -           | -         | -                  | ACGIH TWA  |
| Propane       | 74-98-6  | 1,800 mg/m3 | 1,000 ppm | -                  | OSHA TWA   |
| Isobutane     | 75-28-5  | -           | 1,000 ppm | -                  | ACGIH STEL |

### Personal protective equipment

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

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|                                 |                                                                                                          |
|---------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Hand protection</b>          | : No special requirements.                                                                               |
| <b>Eye protection</b>           | : No special requirements.                                                                               |
| <b>Skin and body protection</b> | : No special requirements.                                                                               |
| <b>Hygiene measures</b>         | : Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. |

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                                |                     |
|------------------------------------------------|---------------------|
| <b>Form</b>                                    | : aerosol           |
| <b>Form</b>                                    | : Compressed gas    |
| <b>Color</b>                                   | : clear             |
| <b>Odor</b>                                    | : Alcoholic         |
| <b>Odour Threshold</b>                         | : No data available |
| <b>pH</b>                                      | : No data available |
| <b>Melting point/freezing point</b>            | : No data available |
| <b>Initial boiling point and boiling range</b> | : No data available |
| <b>Flash point</b>                             | : -7 °C<br>19.4 °F  |
| <b>Evaporation rate</b>                        | : No data available |
| <b>Flammability (solid, gas)</b>               | : No data available |

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

**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 Compounds** : 64.2 % - additional exemptions may apply  
**Total VOC (wt. %)\*** \*as defined by US Federal and State Consumer Product Regulations

**Other information** : None identified :

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#### 10. STABILITY AND REACTIVITY

**Reactivity** : No dangerous reaction known under conditions of normal use.

**Chemical stability** : Stable under recommended storage conditions.

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

**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** : LD50 3,735 mg/kg

**Acute inhalation toxicity** : LC50 > 10 mg/L

**Acute dermal toxicity** : LD50 > 2,000 mg/kg

| GHS Properties | Classification             | Routes of entry            |
|----------------|----------------------------|----------------------------|
| Acute toxicity | No classification proposed | Oral                       |
| Acute toxicity | No classification proposed | Dermal                     |
| Acute toxicity | No classification proposed | Inhalation - Dust and Mist |
| Acute toxicity | No classification proposed | Inhalation - Vapour        |

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|                                                    |                            |                  |
|----------------------------------------------------|----------------------------|------------------|
| Acute toxicity                                     | No classification proposed | Inhalation - Gas |
| 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 | -                |
| Aspiration hazard                                  | No classification proposed | -                |

**Aggravated Medical Condition** : Do not apply to cuts or irritated skin.

## 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          |



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|                         |              |                          |            |      |
|-------------------------|--------------|--------------------------|------------|------|
|                         |              |                          |            |      |
| N,N-Diethyl-m-toluamide | LC50         | Danio rerio (zebra fish) | 97 mg/l    | 96 h |
| Butane                  | LC50<br>QSAR | Fish                     | 24.11 mg/l | 96 h |
| Propane                 | LC50<br>QSAR | Fish                     | 49.9 mg/l  | 96 h |
| Isobutane               | LC50<br>QSAR | Fish                     | 27.98 mg/l | 96 h |

**Toxicity to aquatic invertebrates**

| Components              | End point           | Species                    | Value      | Exposure time |
|-------------------------|---------------------|----------------------------|------------|---------------|
| Ethyl alcohol           | static test<br>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    | Daphnia magna              | 3.7 mg/l   | 21 d          |

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|           | NOEC<br>Measured<br>OECD<br>Guideline<br>211<br>(Daphnia<br>magna<br>Reproduct<br>ion Test) |         |            |      |
|-----------|---------------------------------------------------------------------------------------------|---------|------------|------|
| Butane    | EC50<br>QSAR                                                                                | Daphnid | 14.22 mg/l | 48 h |
| Propane   | LC50                                                                                        | Daphnid | 27.14 mg/l | 48 h |
| Isobutane | LC50<br>QSAR                                                                                | Daphnid | 16.33 mg/l | 48 h |

**Toxicity to aquatic plants**

| Components              | End point      | Species                                               | Value      | Exposure<br>time |
|-------------------------|----------------|-------------------------------------------------------|------------|------------------|
| Ethyl alcohol           | Static<br>EC50 | Chlorella vulgaris (Fresh<br>water algae)             | 275 mg/l   | 72 h             |
| N,N-Diethyl-m-toluamide | ErC50          | Selenastrum<br>capricornutum,<br>Skeletonema costatum | 43 mg/l    | 96 h             |
| Butane                  | EC50<br>QSAR   | Green algae                                           | 7.71 mg/l  | 96 h             |
| Propane                 | EC50           | Green algae                                           | 11.89 mg/l | 96 h             |

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|           |              |             |           |      |
|-----------|--------------|-------------|-----------|------|
| Isobutane | EC50<br>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                  | 70 %           | < 10 d        | 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                 | 13                            | 2.36                                        |
| Isobutane               | 1.57 - 1.97                   | 2.8                                         |

#### Mobility

| Component               | End point         | Value |
|-------------------------|-------------------|-------|
| Ethyl alcohol           | Koc               | 1     |
| N,N-Diethyl-m-toluamide | Koc               | 43.3  |
| Butane                  | No data available |       |
| Propane                 | Koc               | 460   |
| Isobutane               | No data available |       |

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### 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.

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## 13. DISPOSAL CONSIDERATIONS

### PESTICIDAL WASTE:

For disposal information, please read and follow Disposal instructions on the pesticide label.

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

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## 14. TRANSPORT INFORMATION

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

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|                                    | Land transport                                                                                     | Sea transport                                                                                      | Air transport                                                                                      |
|------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| UN number or identification number | 1950                                                                                               | 1950                                                                                               | 1950                                                                                               |
| UN proper shipping name            | AEROSOLS, flammable                                                                                | AEROSOLS, flammable                                                                                | AEROSOLS, flammable                                                                                |
| Transport hazard class(es)         | 2.1                                                                                                | 2                                                                                                  | 2.1                                                                                                |
| Packing group                      | -                                                                                                  | -                                                                                                  | -                                                                                                  |
| Environmental hazards              | -                                                                                                  | -                                                                                                  | -                                                                                                  |
| Special precautions for user       | 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 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.

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

#### 16. OTHER INFORMATION

##### HMIS Ratings

|                     |        |
|---------------------|--------|
| <b>Health</b>       | 2      |
| <b>Flammability</b> | 44     |
| <b>Reactivity</b>   | 0<br>4 |

##### NFPA Ratings

|                   |        |
|-------------------|--------|
| <b>Health</b>     | 2      |
| <b>Fire</b>       | 4<br>4 |
| <b>Reactivity</b> | 0<br>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.

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#### 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) |
|-------------|------------------------------------------------------------------|