

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF!® DEEPS WOODS® SPORTSMEN DRY INSECT REPELLENT IV**

Version 2.0

Print Date 11/30/2016

Revision Date 07/12/2016

SDS Number 350000015104

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product information**

- Product name** : OFF!® DEEPS WOODS® SPORTSMEN DRY INSECT REPELLENT IV
- 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 International Emergency Phone: (703)527-3887  
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.
Eye irritation	Category 2A	Causes serious eye irritation.
Gases under pressure	Liquefied gas	Contains gas under pressure; may explode if heated.

**Labelling**

**Hazard symbols**

- Flame
- Gas cylinder
- Exclamation mark

**Signal word**

Danger

**Hazard statements**

- Extremely flammable aerosol.
- Contains gas under pressure; may explode if heated.
- Causes serious eye irritation.

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF!® DEEPS WOODS® SPORTSMEN DRY INSECT REPELLENT IV**

Version 2.0

Print Date 11/30/2016

Revision Date 07/12/2016

SDS Number 350000015104

**Precautionary statements**

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/ attention.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Protect from sunlight. Store in a well-ventilated place.

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.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

Wash hands thoroughly after handling.

**Other hazards** : None identified

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

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
Isopropyl Myristate	110-27-0	1.00 - 5.00
Magnesium carbonate	546-93-0	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** : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF!® DEEPS WOODS® SPORTSMEN DRY INSECT REPELLENT IV**

Version 2.0

Print Date 11/30/2016

Revision Date 07/12/2016

SDS Number 350000015104

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

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**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 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

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**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 /

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF!® DEEPS WOODS® SPORTSMEN DRY INSECT REPELLENT IV**

Version 2.0

Print Date 11/30/2016

Revision Date 07/12/2016

SDS Number 350000015104

national regulations (see section 13).  
Use only non-sparking equipment.  
Dike large spills.  
Clean residue from spill site.

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**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.  
Wash thoroughly after handling.

**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.

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF!® DEEPS WOODS® SPORTSMEN DRY INSECT REPELLENT IV**

Version 2.0

Print Date 11/30/2016

Revision Date 07/12/2016

SDS Number 350000015104

**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
Corn starch	9005-25-8	5 mg/m3	-	-	OSHA TWA
Corn starch	9005-25-8	15 mg/m3	-	-	OSHA TWA
Corn starch	9005-25-8	10 mg/m3	-	-	ACGIH TWA
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
Magnesium carbonate	546-93-0	15 mg/m3	-	-	OSHA TWA
Magnesium carbonate	546-93-0	5 mg/m3	-	-	OSHA TWA

**Personal protective equipment**

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

**Hand protection** : No special requirements.

**Eye protection** : Safety glasses with side-shields

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF!® DEEPS WOODS® SPORTSMEN DRY INSECT REPELLENT IV**

Version 2.0

Print Date 11/30/2016

Revision Date 07/12/2016

SDS Number 350000015104

- Skin and body protection** : No special requirements.
- Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

- Form** : aerosol
- Form** : Compressed gas
- Color** : white
- Odor** : pleasant
  
- Odour Threshold** : No data available
  
- pH** : 10.3  
(as aqueous solution)
  
- Melting point/freezing point** : No data available
- Initial boiling point and boiling range** : No data available
- Flash point** : < -7 °C  
< 19.4 °F  
Propellant
  
- Evaporation rate** : No data available
  
- Flammability (solid, gas)** : Sustains combustion
  
- Upper/lower flammability or explosive limits** : No data available

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF!® DEEPS WOODS® SPORTSMEN DRY INSECT REPELLENT IV**

Version 2.0

Print Date 11/30/2016

Revision Date 07/12/2016

SDS Number 350000015104

<b>Vapour pressure</b>	:	No data available	
<b>Vapour density</b>	:	No data available	
<b>Relative density</b>	:	0.82 g/cm <sup>3</sup>	
<b>Solubility(ies)</b>	:	dispersible	
<b>Partition coefficient: n-octanol/water</b>	:	No data available	
<b>Auto-ignition temperature</b>	:	No data available	
<b>Decomposition temperature</b>	:	Test not applicable for this product type	
<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>	:	52.6 % - additional exemptions may apply *as defined by US Federal and State Consumer Product Regulations	
<b>Other information</b>	:	None identified	:

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**10. STABILITY AND REACTIVITY**

**Possibility of hazardous** : If accidental mixing occurs and toxic gas is formed, exit area

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF!® DEEPS WOODS® SPORTSMEN DRY INSECT REPELLENT IV**

Version 2.0

Print Date 11/30/2016

Revision Date 07/12/2016

SDS Number 350000015104

- reactions** : immediately. Do not return until well ventilated.
  
- Conditions to avoid** : Heat, flames and sparks.
  
- Incompatible materials** : Strong oxidizing agents  
Do not mix with bleach or any other household cleaners.  
Strong bases
  
- 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	-
Eye irritation	Category 2A	-
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	No classification proposed	-



**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF!® DEEPS WOODS® SPORTSMEN DRY INSECT REPELLENT IV**

Version 2.0

Print Date 11/30/2016

Revision Date 07/12/2016

SDS Number 350000015104

toxicity - single exposure		
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
N,N-Diethyl-m-toluamide	static test LC50	Oncorhynchus mykiss (rainbow trout)	71.25 mg/l	96 h
Ethyl alcohol	LC50	Fish	11,200 mg/l	96 h
Butane	LC50 QSAR	Fish	27.98 mg/l	96 h
Corn starch	static test LC50 Measured No information	Fish	5,000 mg/l	96 h

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200

**OFF!® DEEPS WOODS® SPORTSMEN DRY INSECT REPELLENT IV**

Version 2.0

Print Date 11/30/2016

Revision Date 07/12/2016

SDS Number 350000015104

	available.			
Propane	LC50	Fish	27.98 mg/l	96 h
Isobutane	LC50 QSAR	Fish	27.98 mg/l	96 h
Isopropyl Myristate	LC50	Danio rerio (zebra fish)	8,400 mg/l	96 h
Magnesium carbonate	static test LC50	Pimephales promelas (fathead minnow)	2,800 mg/l	96 h

**Toxicity to aquatic invertebrates**

Components	End point	Species	Value	Exposure time
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
Ethyl alcohol	static test LC50	Ceriodaphnia dubia		48 h

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200

**OFF!® DEEPS WOODS® SPORTSMEN DRY INSECT REPELLENT IV**

Version 2.0

Print Date 11/30/2016

Revision Date 07/12/2016

SDS Number 350000015104

			5,012 mg/l	
	NOEC	Daphnia magna	9.6 mg/l	9 d
Butane	No data available			
Corn starch	No data available			
Propane	LC50	Daphnid	14.22 mg/l	48 h
Isobutane	LC50 QSAR	Daphnid	16.33 mg/l	48 h
Isopropyl Myristate	EC50	Daphnia magna (Water flea)	100 mg/l	48 h
Magnesium carbonate	No data available			

**Toxicity to aquatic plants**

Components	End point	Species	Value	Exposure time
N,N-Diethyl-m-toluamide	NOEC	Pseudokirchneriella subcapitata (green algae)	0.521 mg/l	96 h
Ethyl alcohol	Static EC50	Chlorella vulgaris (Fresh water algae)	275 mg/l	72 h

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200

**OFF!® DEEPS WOODS® SPORTSMEN DRY INSECT REPELLENT IV**

Version 2.0

Print Date 11/30/2016

Revision Date 07/12/2016

SDS Number 350000015104

Butane	EC50 QSAR	Green algae	7.71 mg/l	96 h
Corn starch	No data available			
Propane	No data available			
Isobutane	EC50 QSAR	Green algae	8.57 mg/l	96 h
Isopropyl Myristate	EC50	Desmodesmus subspicatus	> 100 mg/l	72 h
Magnesium carbonate	static test EC50 Read- across (Analogy)	Desmodesmus subspicatus (green algae)	> 100 mg/l	72 h

**Persistence and degradability**

Component	Biodegradation	Exposure time	Summary
N,N-Diethyl-m-toluamide	83.8 %	28 d	Readily biodegradable
Ethyl alcohol	97 %	28 d	Readily biodegradable
Butane	100 %	385.5 h	Readily biodegradable
Corn starch	No data available		Readily biodegradable
Propane	70 %	< 10 d	Readily biodegradable
Isobutane	70 %	< 10 d	Readily biodegradable
Isopropyl Myristate	91.4 %	28 d	Readily biodegradable
Magnesium carbonate	No data available		

**Bioaccumulative potential**

Component	Bioconcentration	Partition Coefficient n-
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**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200

**OFF!® DEEPS WOODS® SPORTSMEN DRY INSECT REPELLENT IV**

Version 2.0

Print Date 11/30/2016

Revision Date 07/12/2016

SDS Number 350000015104

	<b>factor (BCF)</b>	<b>Octanol/water (log)</b>
N,N-Diethyl-m-toluamide	21.9 estimated	2.4
Ethyl alcohol	3.2 estimated	-0.35 Measured
Butane	No data available	2.89
Corn starch	No data available	No data available
Propane	No data available	2.36
Isobutane	1.57 - 1.97	2.8
Isopropyl Myristate	1,220.1	7.71
Magnesium carbonate	0.89 QSAR	-2.12 QSAR

**Mobility**

<b>Component</b>	<b>End point</b>	<b>Value</b>
N,N-Diethyl-m-toluamide	Koc	43.3
Ethyl alcohol	No data available	
Butane	No data available	
Corn starch	No data available	
Propane	No data available	
Isobutane	No data available	
Isopropyl Myristate	log Koc	4.08
Magnesium carbonate	No data available	

**PBT and vPvB assessment**

<b>Component</b>	<b>Results</b>
N,N-Diethyl-m-toluamide	Not fulfilling PBT and vPvB criteria
Ethyl alcohol	Not fulfilling PBT and vPvB criteria
Butane	Not fulfilling PBT and vPvB criteria
Corn starch	Not fulfilling PBT and vPvB criteria
Propane	Not fulfilling PBT and vPvB criteria
Isobutane	Not fulfilling PBT and vPvB criteria
Isopropyl Myristate	Not fulfilling PBT and vPvB criteria

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF!® DEEPS WOODS® SPORTSMEN DRY INSECT REPELLENT IV**

Version 2.0

Print Date 11/30/2016

Revision Date 07/12/2016

SDS Number 350000015104

Magnesium carbonate	Not fulfilling PBT and vPvB criteria
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**Other adverse effects** : No data available

**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.

**14. TRANSPORT INFORMATION**

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

	<b>Land transport</b>	<b>Sea transport</b>	<b>Air transport</b>
<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**

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF!® DEEPS WOODS® SPORTSMEN DRY INSECT REPELLENT IV**

Version 2.0

Print Date 11/30/2016

Revision Date 07/12/2016

SDS Number 350000015104

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:

**WARNING:**

- Causes substantial but temporary eye injury.
- Harmful if swallowed.
- Use of this product may cause skin reactions in rare cases.
- Extremely 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.

**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**  
4822-572/US/EPA  
30598/PMRA

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF!® DEEPS WOODS® SPORTSMEN DRY INSECT REPELLENT IV**

Version 2.0

Print Date 11/30/2016

Revision Date 07/12/2016

SDS Number 350000015104

**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**

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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