

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF! Active Insect Repellent I (EPA Reg. No. 4822-380)**

Version 2.1

Print Date 03/12/2018

Revision Date 03/01/2017

SDS Number 350000004806  
GEN\_SOF Number 38268

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product information**

- Product name** : OFF! Active Insect Repellent I (EPA Reg. No. 4822-380)
- 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 2B	Causes eye irritation.
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.  
Causes eye irritation.

## Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



### OFF! Active Insect Repellent I (EPA Reg. No. 4822-380)

Version 2.1

Print Date 03/12/2018

Revision Date 03/01/2017

SDS Number 350000004806  
GEN\_SOF Number 38268

#### 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.

Wash hands thoroughly after handling.

**Other hazards** : None identified

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight percent
Ethyl alcohol	64-17-5	60.00 - 100.00
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** : 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.

**Skin contact** : If you suspect a reaction to this product, discontinue use and remove contaminated clothing.

## Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



### OFF! Active Insect Repellent I (EPA Reg. No. 4822-380)

Version 2.1

Print Date 03/12/2018

Revision Date 03/01/2017

SDS Number 350000004806  
GEN\_SOF Number 38268

**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 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.

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF! Active Insect Repellent I (EPA Reg. No. 4822-380)**

Version 2.1

Print Date 03/12/2018

Revision Date 03/01/2017

SDS Number 350000004806  
GEN\_SOF Number 38268

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.  
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.

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

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF! Active Insect Repellent I (EPA Reg. No. 4822-380)**

Version 2.1

Print Date 03/12/2018

Revision Date 03/01/2017

SDS Number 350000004806  
GEN\_SOF Number 38268

**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.

**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**

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF! Active Insect Repellent I (EPA Reg. No. 4822-380)**

Version 2.1

Print Date 03/12/2018

Revision Date 03/01/2017

SDS Number 350000004806  
GEN\_SOF Number 38268

- Form** : aerosol
- Color** : clear
- Odor** : pleasant
  
- Odour Threshold** : Test not applicable for this product type
  
- pH** : Test not applicable for this product type
  
- Melting point/freezing point** : Test not applicable for this product type
- Initial boiling point and boiling range** : Test not applicable for this product type
- Flash point** : -7 °C  
19.4 °F  
Propellant  
68 °F  
  
liquid
  
- Evaporation rate** : Test not applicable for this product type
  
- Flammability (solid, gas)** : Sustains combustion
  
- Upper/lower flammability or explosive limits** : Test not applicable for this product type
  
- Vapour pressure** : Test not applicable for this product type
  
- Vapour density** : Test not applicable for this product type

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF! Active Insect Repellent I (EPA Reg. No. 4822-380)**

Version 2.1

Print Date 03/12/2018

Revision Date 03/01/2017

SDS Number 350000004806  
GEN\_SOF Number 38268

<b>Relative density</b>	:	0.781 g/cm <sup>3</sup> at 21 °C	
<b>Solubility(ies)</b>	:	dispersible	
<b>Partition coefficient: n-octanol/water</b>	:	Test not applicable for this product type	
<b>Auto-ignition temperature</b>	:	Test not applicable for this product type	
<b>Decomposition temperature</b>	:	No data available	
<b>Viscosity, dynamic</b>	:	No data available, Test not applicable for this product type	
<b>Viscosity, kinematic</b>	:	Test not applicable for this product type	
<b>Oxidizing properties</b>	:	Test not applicable for this product type	
<b>Volatile Organic Compounds Total VOC (wt. %)*</b>	:	84.4 % - additional exemptions may apply *as defined by US Federal and State Consumer Product Regulations	
<b>Other information</b>	:	None identified	:

---

**10. STABILITY AND REACTIVITY**

<b>Possibility of hazardous reactions</b>	:	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	:	Heat, flames and sparks.
<b>Incompatible materials</b>	:	Strong oxidizing agents

## Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



### OFF! Active Insect Repellent I (EPA Reg. No. 4822-380)

Version 2.1

Print Date 03/12/2018

Revision Date 03/01/2017

SDS Number 350000004806  
GEN\_SOF Number 38268

**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
Acute toxicity	No classification proposed	Inhalation - Gas
Skin corrosion/irritation	No classification proposed	-
Eye irritation	Category 2B	-
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	-



**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200

**OFF! Active Insect Repellent I (EPA Reg. No. 4822-380)**

Version 2.1

Print Date 03/12/2018

Revision Date 03/01/2017

SDS Number 350000004806  
GEN\_SOF Number 38268

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
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

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200

**OFF! Active Insect Repellent I (EPA Reg. No. 4822-380)**

Version 2.1

Print Date 03/12/2018

Revision Date 03/01/2017

SDS Number 350000004806

GEN\_SOF Number 38268

Isobutane	LC50 QSAR	Fish	27.98 mg/l	96 h
-----------	--------------	------	------------	------

**Toxicity to aquatic invertebrates**

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

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200

**OFF! Active Insect Repellent I (EPA Reg. No. 4822-380)**

Version 2.1

Print Date 03/12/2018

Revision Date 03/01/2017

SDS Number 350000004806

GEN\_SOF Number 38268

Isobutane	LC50 QSAR	Daphnid	16.33 mg/l	48 h
-----------	--------------	---------	------------	------

**Toxicity to aquatic plants**

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**

## Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



### OFF! Active Insect Repellent I (EPA Reg. No. 4822-380)

Version 2.1

Print Date 03/12/2018

Revision Date 03/01/2017

SDS Number 350000004806  
GEN\_SOF Number 38268

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

#### 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.

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF! Active Insect Repellent I (EPA Reg. No. 4822-380)**

Version 2.1

Print Date 03/12/2018

Revision Date 03/01/2017

SDS Number 350000004806  
GEN\_SOF Number 38268

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**

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.  
Flammable.

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF! Active Insect Repellent I (EPA Reg. No. 4822-380)**

Version 2.1

Print Date 03/12/2018

Revision Date 03/01/2017

SDS Number 350000004806

GEN\_SOF Number 38268

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**  
4822-380/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

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF! Active Insect Repellent I (EPA Reg. No. 4822-380)**

Version 2.1

Print Date 03/12/2018

Revision Date 03/01/2017

SDS Number 350000004806

GEN\_SOF Number 38268

(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)
-------------	--