

# Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



## OFF!® FAMILYCARE INSECT REPELLENT I - SMOOTH & DRY

Version 4.0

Print Date 08/31/2012

Revision Date 08/21/2012

MSDS Number 350000010898

SITE\_FORM Number

3000000000000009155.004

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Product information

Trade name : OFF!® FAMILYCARE INSECT REPELLENT I - SMOOTH & DRY

Use of the Substance/Mixture : Insect Repellent

Company : S.C. Johnson & Son, Inc.  
1525 Howe Street  
Racine WI 53403-2236

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

#### Emergency Overview

Appearance / Odor : clear white / aerosol / pleasant

#### Immediate Concerns

: Warning  
FLAMMABLE:  
CAUSES EYE IRRITATION.  
Keep away from heat, sparks and flame.  
Do not puncture or incinerate.  
Do not store at temperatures above 120 Deg. F (50 Deg C), as container may burst.  
Avoid contact with eyes and lips.  
Contents under pressure.

#### Potential Health Effects

Exposure routes : Eye, Skin, Inhalation, Ingestion.

Eyes : Causes:  
Moderate eye irritation

Skin : May cause skin reactions in rare cases.  
Prolonged or repeated contact may dry skin and cause irritation.

Inhalation : May cause nose, throat, and lung irritation.  
Inhalation may cause central nervous system effects.

Ingestion : May cause irritation to mouth, throat and stomach.

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May cause abdominal discomfort.  
Causes headache, drowsiness or other effects to the central nervous system.

Aggravated Medical Condition

: Persons with pre-existing skin disorders may be more susceptible to irritating effects.  
Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc. may be more susceptible to irritating effects  
Do not apply to cuts or irritated skin.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous chemicals present at or above reportable levels as defined by OSHA 29 CFR 1910.1200 or the Canadian Controlled Products Regulations are listed in this table:

Chemical Name	CAS-No.	Weight percent
Ethyl alcohol	64-17-5	10.00 - 30.00
Butane	106-97-8	10.00 - 30.00
N,N-Diethyl-m-toluamide	134-62-3	10.00 - 30.00
Propane	74-98-6	10.00 - 30.00
Isobutane	75-28-5	10.00 - 30.00
Corn starch	9005-25-8	10.00 - 30.00
Magnesium carbonate	546-93-0	1.00 - 5.00
Isopropyl Myristate	110-27-0	1.00 - 5.00

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

### 4. FIRST AID MEASURES

- Eye contact : Remove contact lenses. Flush immediately with plenty of water for at least 15 to 20 minutes. Get medical attention if irritation develops and persists.
- Skin contact : Wash off immediately with plenty of water. Rinse with plenty of water. Get medical attention if irritation develops and persists. If you suspect a reaction to this product, discontinue use and remove contaminated clothing.
- Inhalation : Remove to fresh air. If breathing is affected, get medical attention.
- Ingestion : If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

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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 : Burns with colourless flame. 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. For large quantities of flammable liquids, consider containment to prevent the spread of fire. Wear full protective clothing and positive pressure self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.
- Flash point : < -7 °C  
< 19.4 °F  
Method: Tag Closed Cup (TCC)  
Note: Propellant
- Lower explosion limit : Note: no data available
- Upper explosion limit : Note: no data available
- NFPA Classification : NFPA Level 2 Aerosol

#### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Remove all sources of ignition.  
Wear personal protective equipment.
- 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 for 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.

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Clean residue from spill site.

**7. HANDLING AND STORAGE**

**Handling**

Advice on safe handling : Do not puncture or incinerate.  
Avoid contact with eyes and lips.  
Avoid breathing vapors, mist or gas.  
For personal protection see section 8.  
Do not spray toward face.  
Do not use in areas without adequate ventilation.  
Use only as directed.  
KEEP OUT OF REACH OF CHILDREN AND PETS.

Advice on protection against fire and explosion : Keep away from heat and sources of ignition.  
Take measures to prevent the build up of electrostatic charge.

**Storage**

Requirements for storage areas and containers : Keep away from food, drink and animal feedingstuffs.  
Do not store at temperatures above 120 Deg. F (50 Deg C), as container may burst.  
Keep in a dry, cool and well-ventilated place.

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**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 TWA
Propane	74-98-6	1,800 mg/m3	1,000 ppm	-	OSHA TWA
Propane	74-98-6	-	1,000 ppm	-	ACGIH TWA
Isobutane	75-28-5	-	1,000 ppm	-	ACGIH TWA
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
Magnesium carbonate	546-93-0	5 mg/m3	-	-	OSHA TWA
Magnesium carbonate	546-93-0	15 mg/m3	-	-	OSHA TWA

**Personal protective equipment****Respiratory protection**Use only with adequate ventilation.  
Do not spray in enclosed areas.**Hand protection**

: No special requirements.

**Eye protection**

Safety glasses with side-shields

**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
Color	:	clear white
Odor	:	pleasant
pH	:	not applicable
Melting point	:	not applicable
Boiling point	:	not applicable
Freezing point	:	not applicable
Flash point	:	< -7 °C < 19.4 °F Method: Tag Closed Cup (TCC) Propellant
Evaporation rate	:	no data available
Flammability (solid, gas)	:	no data available
Auto-ignition temperature	:	no data available
Lower explosion limit	:	no data available
Upper explosion limit	:	no data available
Vapour pressure	:	55 psi at 70 °F
Density	:	0.78 g/cm <sup>3</sup>
Water solubility	:	dispersible
Partition coefficient: n-octanol/water	:	no data available
Solubility in other solvents	:	not applicable
Viscosity, dynamic	:	not applicable
Volatile Organic Compounds	:	66.7 % - additional exemptions may apply

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Total VOC (wt. %)\*

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

### 10. STABILITY AND REACTIVITY

- Conditions to avoid : Heat, flames and sparks.
- Materials to avoid : Strong oxidizing agents
- Hazardous decomposition products : Thermal decomposition can lead to release of irritating gases and vapours.
- Hazardous reactions : Stable under recommended storage conditions.

### 11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity : LD50  
Calculated  
3,735 mg/kg
  
- Acute inhalation toxicity : LC50  
Calculated  
> 2.79 mg/l
  
- Acute dermal toxicity : LD50  
estimated  
> 2,000 mg/kg
  
- Chronic effects**
- Carcinogenicity : no data available
  
- Mutagenicity : no data available
  
- Reproductive effects : no data available
  
- Teratogenicity : no data available

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Sensitisation : Not known to be a sensitizer.

**12. ECOLOGICAL INFORMATION**

Ecotoxicity effects : no data available

**13. DISPOSAL CONSIDERATIONS**

PESTICIDAL WASTE:  
Observe all applicable Federal, Provincial and State regulations and Local/Municipal ordinances regarding disposal.  
Consumer may discard empty container in trash, or recycle where facilities exist.

**14. TRANSPORT INFORMATION**

**Land transport**

▪ **U.S. DOT and Canadian TDG Surface Transportation:**

Proper shipping name UN 1950 AEROSOLS, Flammable, 2.1  
Class: 2.1  
UN number 1950  
Packaging group: None.  
Note: Limited quantities derogation may be applicable to this product, please check transport documents.

**Sea transport**

▪ **IMDG:**

Proper shipping name UN 1950 AEROSOLS, Flammable, 2.1  
Class: 2  
UN number: 1950  
Packaging group: None.  
EmS: F-D, S-U  
Note: Limited quantities derogation may be applicable to this product, please check transport documents.

**Air transport**

▪ **ICAO/IATA:**

Proper shipping name UN 1950 AEROSOLS, Flammable, 2.1  
Class: 2.1



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UN/ID No.: UN 1950  
Packaging group: None.  
Note: SC Johnson typically does not ship products via air. Refer to IATA/ICAO Dangerous Goods Regulations for detailed instructions when shipping this item by air.

### 15. REGULATORY INFORMATION

- 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.
- Canada Regulations : This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**Registration # / Agency**  
4822-543/US/EPA

### 16. OTHER INFORMATION

#### HMIS Ratings

Health	2
Flammability	4
Reactivity	0

#### NFPA Ratings

Health	2
Fire	4
Reactivity	0
Special	-

Further information

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Prepared by:	SC Johnson Global Safety Assessment & Regulatory Affairs (GSARA)
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