

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**OFF!® FAMILYCARE INSECT REPELLENT III (TROPICAL FRESH® LIGHT SCENT)**

Version 1.2

Print Date 03/04/2015

Revision Date 02/23/2015

SDS Number 350000004803

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product information**

**Product name** : OFF!® FAMILYCARE INSECT REPELLENT III (TROPICAL FRESH® LIGHT SCENT)

**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
Flammable liquids	Category 1	Extremely flammable liquid and vapour.

**Labelling**

**Hazard symbols**

Flame

**Signal word**

Danger

**Hazard statements**

Extremely flammable liquid and vapour.

**Precautionary statements**

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Store in a well-ventilated place. Keep cool.

Dispose of contents/ container to an approved incineration plant.

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Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Wear protective gloves.  
Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
**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	5.00 - 10.00

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 ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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** : Flammable liquid. Vapors are heavier than air and may travel to a source of ignition and flash back. Liquid run-off to sewers may create fire/explosion hazard. Container may melt and leak 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.

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**6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions** : Remove all sources of ignition.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
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** : Soak up with inert absorbent material.  
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.

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**Advice on protection against fire and explosion** : Keep away from sources of ignition - No smoking.  
Take measures to prevent the build up of electrostatic charge.  
Use only non-sparking tools.  
Use explosion-proof equipment.  
Ground/bond container and receiving equipment.

**Storage**

**Requirements for storage areas and containers** : Keep container closed when not in use.  
Keep away from food, drink and animal feedingstuffs.  
Keep tightly closed.  
Store in a well-ventilated place. Keep cool.

**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

**Occupational Exposure Limits**

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Ethyl alcohol	64-17-5	-	1,000 ppm	-	ACGIH STEL

**Personal protective equipment**

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

**Hand protection** : No special requirements.

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- 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** : liquid
- Color** : clear
- Odor** : pleasant
- Odour Threshold** :
- pH** : Not applicable
- Melting point/freezing point** : No data available
- Initial boiling point and boiling range** : No data available
- Flash point** : 13 °C  
55.4 °F  
Method: Tag Closed Cup (TCC)
- Evaporation rate** : No data available
- Flammability (solid, gas)** : Sustains combustion
- Upper/lower flammability or explosive limits** : No data available

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<b>Vapour pressure</b>	:	No data available
<b>Vapour density</b>	:	No data available
<b>Relative density</b>	:	0.791 g/cm <sup>3</sup> at 21 °C
<b>Solubility(ies)</b>	:	completely soluble
<b>Partition coefficient: n-octanol/water</b>	:	
<b>Auto-ignition temperature</b>	:	
<b>Decomposition temperature</b>	:	
<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>	:	94.6 % - 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**

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

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**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  
estimated  
> 5,000 mg/kg
- Acute inhalation toxicity** : GHS LC50 (dust and mist)  
estimated  
> 2.2 mg/l
- Acute dermal toxicity** : LD50  
estimated  
> 2,000 mg/kg

GHS Properties	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	No classification proposed	-

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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
Ethyl alcohol	flow-through test LC50	Pimephales promelas (fathead minnow)	14,200 mg/l	96 h
N,N-Diethyl-m-toluamide	static test LC50	Oncorhynchus mykiss (rainbow trout)	71.25 mg/l	96 h

**Toxicity to aquatic invertebrates**

Components	End point	Species	Value	Exposure time
Ethyl alcohol	static test EC50	Daphnia magna (Water flea)	2 mg/l	48 h



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	NOEC	Daphnia magna	9.6 mg/l	9 d
N,N-Diethyl-m-toluamide	No data available			

**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	No data available			

**Persistence and degradability**

Component	Biodegradation	Exposure time	Summary
Ethyl alcohol	97 %	28 d	Readily biodegradable
N,N-Diethyl-m-toluamide	No data available		

**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	No data available	No data available

**Mobility**

Component	End point	Value
Ethyl alcohol	No data available	
N,N-Diethyl-m-toluamide	No data available	

**PBT and vPvB assessment**

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Component	Results
Ethyl alcohol	Not fulfilling PBT and vPvB criteria
N,N-Diethyl-m-toluamide	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 trash, or recycle where facilities exist.

## 14. TRANSPORT INFORMATION

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

	Land transport	Sea transport	Air transport
<b>UN number</b>			
<b>UN proper shipping name</b>	UN 1993 Flammable liquid, N.O.S. (Ethyl alcohol) 3, III, LTD QTY	UN 1993 Flammable liquid, N.O.S. (Ethyl alcohol) 3, III, LTD QTY	UN 1993 Flammable liquid, N.O.S. (Ethyl alcohol) 3, III, LTD QTY
<b>Transport hazard class(es)</b>	3	3	3
<b>Packing group</b>	II	II	II
<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

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**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.

Use of this product may cause skin reactions in rare cases.

Flammable.

**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**

4822-415/US/EPA

**16. OTHER INFORMATION**

**HMIS Ratings**

<b>Health</b>	2
<b>Flammability</b>	3
<b>Reactivity</b>	0

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**NFPA Ratings**

<b>Health</b>	2
<b>Fire</b>	3
<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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