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

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

Emergency telephone number :
+18005585252
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

<table>
<thead>
<tr>
<th>Hazard classification</th>
<th>Hazard category</th>
<th>Hazards identification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable liquids</td>
<td>Category 1</td>
<td>Extremely flammable liquid and vapour.</td>
</tr>
</tbody>
</table>

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.
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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Weight percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>64-17-5</td>
<td>60.00 - 100.00</td>
</tr>
<tr>
<td>N,N-Diethyl-m-toluamide</td>
<td>134-62-3</td>
<td>5.00 - 10.00</td>
</tr>
</tbody>
</table>

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.

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.

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.

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

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

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>mg/m3</th>
<th>ppm</th>
<th>Non-standard units</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>64-17-5</td>
<td>1,900</td>
<td>1,000</td>
<td>-</td>
<td>OSHA TWA</td>
</tr>
<tr>
<td>Ethyl alcohol</td>
<td>64-17-5</td>
<td>-</td>
<td>1,000</td>
<td>-</td>
<td>ACGIH STEL</td>
</tr>
</tbody>
</table>

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.

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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Vapour pressure : No data available
Vapour density : No data available
Relative density : 0.791 g/cm³ at 21 °C
Solubility(ies) : completely soluble
Partition coefficient: n-octanol/water :
Auto-ignition temperature :
Decomposition temperature :
Viscosity, dynamic : No data available
Viscosity, kinematic : No data available
Oxidizing properties : No data available
Volatile Organic Compounds : 94.6 % - additional exemptions may apply
Total VOC (wt. %)*
*as defined by US Federal and State Consumer Product Regulations

Other information : None identified

10. STABILITY AND REACTIVITY
Possibility of hazardous reactions : Stable under recommended storage conditions.
Conditions to avoid : 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

<table>
<thead>
<tr>
<th>GHS Properties</th>
<th>Classification</th>
<th>Routes of entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>No classification proposed</td>
<td>-</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>No classification proposed</td>
<td>-</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>No classification proposed</td>
<td>-</td>
</tr>
<tr>
<td>Skin sensitisation</td>
<td>No classification proposed</td>
<td>-</td>
</tr>
<tr>
<td>Respiratory sensitisation</td>
<td>No classification proposed</td>
<td>-</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>No classification proposed</td>
<td>-</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No classification proposed</td>
<td>-</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>No classification proposed</td>
<td>-</td>
</tr>
<tr>
<td>Specific target organ toxicity</td>
<td>No classification proposed</td>
<td>-</td>
</tr>
</tbody>
</table>

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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

<table>
<thead>
<tr>
<th>Components</th>
<th>End point</th>
<th>Species</th>
<th>Value</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>flow-through test LC50</td>
<td>Pimephales promelas (fathead minnow)</td>
<td>14,200 mg/l</td>
<td>96 h</td>
</tr>
<tr>
<td>N,N-Diethyl-m-toluamide</td>
<td>static test LC50</td>
<td>Oncorhynchus mykiss (rainbow trout)</td>
<td>71.25 mg/l</td>
<td>96 h</td>
</tr>
</tbody>
</table>

Toxicity to aquatic invertebrates

<table>
<thead>
<tr>
<th>Components</th>
<th>End point</th>
<th>Species</th>
<th>Value</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>static test EC50</td>
<td>Daphnia magna (Water flea)</td>
<td>2 mg/l</td>
<td>48 h</td>
</tr>
</tbody>
</table>
### Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200

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<table>
<thead>
<tr>
<th>Component</th>
<th>NOEC</th>
<th>Daphnia magna</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>N,N-Diethyl-m-toluamide</td>
<td>No data available</td>
<td>9.6 mg/l</td>
<td>9 d</td>
</tr>
</tbody>
</table>

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**Toxicity to aquatic plants**

<table>
<thead>
<tr>
<th>Components</th>
<th>End point</th>
<th>Species</th>
<th>Value</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>Static EC50</td>
<td>Chlorella vulgaris (Fresh water algae)</td>
<td>275 mg/l</td>
<td>72 h</td>
</tr>
<tr>
<td>N,N-Diethyl-m-toluamide</td>
<td>No data available</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**Persistence and degradability**

<table>
<thead>
<tr>
<th>Component</th>
<th>Biodegradation</th>
<th>Exposure time</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>97 %</td>
<td>28 d</td>
<td>Readily biodegradable</td>
</tr>
<tr>
<td>N,N-Diethyl-m-toluamide</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**Bioaccumulative potential**

<table>
<thead>
<tr>
<th>Component</th>
<th>Bioconcentration factor (BCF)</th>
<th>Partition Coefficient n-Octanol/water (log)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>3.2 estimated</td>
<td>-0.35 Measured</td>
</tr>
<tr>
<td>N,N-Diethyl-m-toluamide</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

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**Mobility**

<table>
<thead>
<tr>
<th>Component</th>
<th>End point</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>N,N-Diethyl-m-toluamide</td>
<td>No data available</td>
<td></td>
</tr>
</tbody>
</table>

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**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.

<table>
<thead>
<tr>
<th>UN number</th>
<th>Land transport</th>
<th>Sea transport</th>
<th>Air transport</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>UN 1993 Flammable liquid, N.O.S. (Ethyl alcohol) 3, III, LTD QTY</td>
<td>UN 1993 Flammable liquid, N.O.S. (Ethyl alcohol) 3, III, LTD QTY</td>
<td>UN 1993 Flammable liquid, N.O.S. (Ethyl alcohol) 3, III, LTD QTY</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Packing group</td>
<td>II</td>
<td>II</td>
<td>II</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>Limited quantities derogation may be applicable to this product, please check transport documents.</td>
<td>Limited quantities derogation may be applicable to this product, please check transport documents.</td>
<td>Limited quantities derogation may be applicable to this product, please check transport documents.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>HMIS Ratings</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>2</td>
</tr>
<tr>
<td>Flammability</td>
<td>3</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
</tbody>
</table>
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NFPA Ratings

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>2</td>
</tr>
<tr>
<td>Fire</td>
<td>3</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
<tr>
<td>Special</td>
<td>-</td>
</tr>
</tbody>
</table>

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)