1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Product name: OFF!® CLIP-ON™ MOSQUITO REPELLENT

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
This product does not meet the criteria for classification in any hazard class according to regulation OSHA 29 CFR 1910.1200.

Labelling
Precautionary statements
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>Metofluthrin</td>
<td>240494-70-6</td>
<td>30.00 - 60.00</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
OFF!® CLIP-ON™ MOSQUITO REPELLENT

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Eye contact : No special requirements
Skin contact : 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.
Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
Further information : Fight fire from maximum distance or protected area. 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 : 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 : Sweep up and shovel into suitable containers for disposal. Clean residue from spill site.

7. HANDLING AND STORAGE

Handling
Precautions for safe : Avoid contact with eyes and lips.
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handling
For personal protection see section 8.
Use only as directed.
KEEP OUT OF REACH OF CHILDREN AND PETS.

Advice on protection against fire and explosion
Normal measures for preventive fire protection.

Storage
Requirements for storage areas and containers
Keep away from food, drink and animal feedingstuffs.
Keep in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits
ACGIH or OSHA exposure limits have not been established for this product or reportable ingredients unless noted in the table above.

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

Form
Liquid absorbed by inert carrier material

Color
white

Odor
odourless

Odour Threshold
Test not applicable for this product type
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>Test not applicable for this product type</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Test not applicable for this product type</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Test not applicable for this product type</td>
</tr>
<tr>
<td>Flash point</td>
<td>Test not applicable for this product type</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Test not applicable for this product type</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Does not sustain combustion.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Test not applicable for this product type</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Test not applicable for this product type</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Test not applicable for this product type</td>
</tr>
<tr>
<td>Relative density</td>
<td>Test not applicable for this product type</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Test not applicable for this product type</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Test not applicable for this product type</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Test not applicable for this product type</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Test not applicable for this product type</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>Test not applicable for this product type</td>
</tr>
</tbody>
</table>
**OFF!® CLIP-ON™ MOSQUITO REPELLENT**

| Viscosity, kinematic                          | Test not applicable for this product type |
| Oxidizing properties                        | Test not applicable for this product type |
| Volatile Organic Compounds                   | 1.3 % - 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**: Direct sources of heat.
- **Incompatible materials**: None known.
- **Hazardous decomposition products**: Thermal decomposition can lead to release of irritating gases and vapours.

### 11. TOXICOLOGICAL INFORMATION

- **Emergency Overview**: This product does not meet the criteria for classification in any hazard class according to regulation OSHA 29 CFR 1910.1200.
- **Acute oral toxicity**: LD50 estimated > 2,000 mg/kg
- **Acute inhalation toxicity**: LC50 estimated > 1.08 mg/l
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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 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

<table>
<thead>
<tr>
<th>Components</th>
<th>End point</th>
<th>Species</th>
<th>Value</th>
<th>Exposure time</th>
</tr>
</thead>
</table>
### OFF!® CLIP-ON™ MOSQUITO REPELLENT

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200

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**Version** 1.1  
**Print Date** 03/04/2015  
**Revision Date** 02/23/2015  
**SDS Number** 350000010208

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**Metofluthrin**  
**LC50**  
**Species** Oncorhynchus mykiss (rainbow trout)  
**Value** 0.0012 mg/l  
**Exposure time** 96 h

### 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>Metofluthrin</td>
<td>EC50</td>
<td>Daphnia magna (Water flea)</td>
<td>0.0047 mg/l</td>
<td>48 h</td>
</tr>
</tbody>
</table>

### Toxicity to aquatic plants

<table>
<thead>
<tr>
<th>Components</th>
<th>End point</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metofluthrin</td>
<td>EbC50</td>
<td>Pseudokirchneriella subcapitata (green algae)</td>
<td>0.16 mg/l</td>
</tr>
</tbody>
</table>

### Persistence and degradability

<table>
<thead>
<tr>
<th>Component</th>
<th>Biodegradation</th>
<th>Exposure time</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metofluthrin</td>
<td>No data available</td>
<td></td>
<td>Not readily biodegradable.</td>
</tr>
</tbody>
</table>

### 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>Metofluthrin</td>
<td>120</td>
<td>5</td>
</tr>
</tbody>
</table>

### Mobility

<table>
<thead>
<tr>
<th>Component</th>
<th>End point</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metofluthrin</td>
<td>Koc</td>
<td>11855</td>
</tr>
</tbody>
</table>
PBT and vPvB assessment

<table>
<thead>
<tr>
<th>Component</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metofluthrin</td>
<td>Not fulfilling PBT and vPvB criteria</td>
</tr>
</tbody>
</table>

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></th>
<th>Land transport</th>
<th>Sea transport</th>
<th>Air transport</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td>3077</td>
<td>3077</td>
<td>3077</td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td>UN 3077 Environmental Hazardously Substance, Solid, N.O.S., (Metofluthrin) 9, III, LTD QTY</td>
<td>UN 3077 Environmental Hazardously Substance, Solid, N.O.S., (Metofluthrin) 9, III, LTD QTY</td>
<td>UN 3077 Environmental Hazardously Substance, Solid, N.O.S., (Metofluthrin) 9, III, LTD QTY</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>9</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>Packing group</td>
<td>III</td>
<td>III</td>
<td>III</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:
Harmful if swallowed.
Harmful if inhaled.
Harmful if absorbed through skin.
Batteries may burst or release toxic materials.

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 does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

California Prop. 65: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Registration # / Agency
4822-542/US/EPA
16. OTHER INFORMATION

**HMIS Ratings**

<table>
<thead>
<tr>
<th></th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>2</td>
</tr>
<tr>
<td>Flammability</td>
<td>1</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
</tbody>
</table>

**NFPA Ratings**

<table>
<thead>
<tr>
<th></th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>2</td>
</tr>
<tr>
<td>Fire</td>
<td>1</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)