

Material Safety Data Sheet

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



OFF!® INSECT REPELLENT - FRESH SCENT

Version 2.0

Print Date 03/01/2013

Revision Date 03/01/2013

MSDS Number 350000003992

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Trade name : OFF!® INSECT REPELLENT - FRESH SCENT

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 / aerosol / pleasant

Immediate Concerns

: Warning
FLAMMABLE:
CAUSES EYE IRRITATION.
Harmful if swallowed.
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.

Inhalation : Inhalation may cause central nervous system effects.

Ingestion : Harmful if swallowed.
Causes headache, drowsiness or other effects to the central nervous system.

Aggravated Medical : Do not apply to cuts or irritated skin.

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Condition

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	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

For additional information on product ingredients, see 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. 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.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 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. Burns with colourless flame. Aerosol Product - Containers may rocket or explode in heat of fire. Container may melt and leak in heat of fire. Do not allow run-off from fire fighting to enter drains or water courses.

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- 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

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.
- 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.
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 vapours, 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.

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KEEP OUT OF REACH OF CHILDREN AND PETS.
Smoking, eating and drinking should be prohibited in the application area.

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.

Storage Stability : 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
Butane	106-97-8	-	1,000 ppm	-	ACGIH TWA
Propane	74-98-6	-	1,000 ppm	-	ACGIH TWA
Propane	74-98-6	1,800 mg/m3	1,000 ppm	-	OSHA TWA
Isobutane	75-28-5	-	1,000 ppm	-	ACGIH TWA

Personal protective equipment

Respiratory protection : 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.

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Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Smoking, eating and drinking should be prohibited in the application area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: aerosol
Color	: clear
Odor	: pleasant
pH	: not applicable
Boiling point	: no data available
Freezing point	: no data available
Flash point	: < -7 °C < 19.4 °F Method: Tag Closed Cup (TCC) Propellant
Evaporation rate	: no data available
Flammability (solid, gas)	: Sustains combustion
Auto-ignition temperature	: no data available
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Vapour pressure	: no data available
Density	: 0.781 g/cm3
Water solubility	: dispersible
Partition coefficient: n-octanol/water	: no data available
Volatile Organic Compounds Total VOC (wt. %)*	: 84.4 % - additional exemptions may apply *as defined by US Federal and State Consumer Product Regulations

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10. STABILITY AND REACTIVITY

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|----------------------------------|--|
| 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
3,735 mg/kg |
| Acute inhalation toxicity | : LC50
> 2.18 mg/l |
| Acute dermal toxicity | : LD50
> 2,000 mg/kg |
| Chronic effects | |
| Carcinogenicity | : no data available |
| Mutagenicity | : None Anticipated |
| Reproductive effects | : no data available |
| Teratogenicity | : no data available |
| Sensitisation | : Not known to be a sensitizer. |

12. ECOLOGICAL INFORMATION

- | | |
|---------------------|---------------------|
| Ecotoxicity effects | : no data available |
|---------------------|---------------------|

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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

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)

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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.
- 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

4822-380/US/EPA

22708/PMRA

16. OTHER INFORMATION

HMIS Ratings

Health	2
Flammability	4
Reactivity	0

NFPA Ratings

Health	2
Fire	4
Reactivity	0
Special	-

This information is being provided in accordance with Occupational Safety and Health Administration (OSHA) and Canada's Workplace Hazard Material Information System (WHMIS) regulations. 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 &

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	Regulatory Affairs (GSARA)
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