according to Hazard Communication Standard; 29 CFR 1910.1200



OFF!® DEEP WOODS® INSECT REPELLENT VIII (DRY) (EPA Reg. No. 4822-572)

Version 2.1 Print Date 05/23/2018

Revision Date 03/01/2017 SDS Number 350000015104

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Product name : OFF!® DEEP WOODS® INSECT REPELLENT VIII (DRY)

(EPA Reg. No. 4822-572)

Recommended use : Insect Repellent

Manufacturer, importer,

supplier

number

: S.C. Johnson & Son, Inc.

1525 Howe Street Racine WI 53403-2236

Telephone : +18005585252

Emergency telephone

24 Hour Medical Emergency Phone: (866)231-540624 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
Aerosol	Category 1	Extremely flammable aerosol.
Eye irritation	Category 2A	Causes serious eye irritation.
Gases under pressure	Liquefied gas	Contains gas under pressure; may explode if heated.

Labelling

Hazard symbols

Flame

Gas cylinder

Exclamation mark

Signal word

Danger

Hazard statements

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

according to Hazard Communication Standard; 29 CFR 1910.1200



OFF!® DEEP WOODS® INSECT REPELLENT VIII (DRY) (EPA Reg. No. 4822-572)

Version 2.1 Print Date 05/23/2018

Revision Date 03/01/2017 SDS Number 350000015104

Causes serious eye irritation.

Precautionary statements

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/ attention.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Protect from sunlight. Store in a well-ventilated place.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

Wash hands thoroughly after handling.

Other hazards : None identified

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

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.

4. FIRST AID MEASURES

according to Hazard Communication Standard; 29 CFR 1910.1200



OFF!® DEEP WOODS® INSECT REPELLENT VIII (DRY) (EPA Reg. No. 4822-572)

Version 2.1 Print Date 05/23/2018

Revision Date 03/01/2017 SDS Number 350000015104

Eye contact : IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

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

: 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. Wear full protective clothing and positive pressure self-contained breathing apparatus. In case of fire and/or

explosion do not breathe fumes.

NFPA Classification : NFPA Level 2 Aerosol

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Remove all sources of ignition.

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.

according to Hazard Communication Standard; 29 CFR 1910.1200



OFF!® DEEP WOODS® INSECT REPELLENT VIII (DRY) (EPA Reg. No. 4822-572)

Version 2.1 Print Date 05/23/2018

Revision Date 03/01/2017 SDS Number 350000015104

Methods and materials for containment and 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

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.

Pressurized container.

Do not pierce or burn, even after use. Wash thoroughly after handling.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Do not spray on an open flame or other ignition source.

Storage

Requirements for storage areas and containers

Protect from sunlight. Do not expose to temperatures

exceeding 50 °C/ 122 °F.

Keep away from food, drink and animal feedingstuffs.

Keep in a dry, cool and well-ventilated place.

according to Hazard Communication Standard; 29 CFR 1910.1200



OFF!® DEEP WOODS® INSECT REPELLENT VIII (DRY) (EPA Reg. No. 4822-572)

Version 2.1 Print Date 05/23/2018

Revision Date 03/01/2017 SDS Number 350000015104

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

Personal protective equipment

Respiratory protection : Do not spray in enclosed areas.

Hand protection : No special requirements.

according to Hazard Communication Standard; 29 CFR 1910.1200



OFF!® DEEP WOODS® INSECT REPELLENT VIII (DRY) (EPA Reg. No. 4822-572)

Version 2.1 Print Date 05/23/2018

Revision Date 03/01/2017 SDS Number 350000015104

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 : aerosol

Form : Compressed gas

Color : white

Odor : pleasant

Odour Threshold : No data available

pH : 10.3

(as aqueous solution)

Melting point/freezing point : No data available

Initial boiling point and

boiling range

: No data available

Flash point : <-7 °C

< 19.4 °F Propellant

Evaporation rate : No data available

Flammability (solid, gas) : Sustains combustion

according to Hazard Communication Standard; 29 CFR 1910.1200



OFF!® DEEP WOODS® INSECT REPELLENT VIII (DRY) (EPA Reg. No. 4822-572)

Version 2.1 Print Date 05/23/2018

Revision Date 03/01/2017 SDS Number 350000015104

Upper/lower flammability or : No data available

explosive limits

Vapour pressure : No data available

Vapour density : No data available

Relative density : 0.82 g/cm3

: dispersible Solubility(ies)

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : No data available

Decomposition temperature : Test not applicable for this product type

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

Volatile Organic - additional exemptions may apply Compounds *as defined by US Federal and State Consumer Product

Total VOC (wt. %)* Regulations

Other information : None identified

according to Hazard Communication Standard; 29 CFR 1910.1200



OFF!® DEEP WOODS® INSECT REPELLENT VIII (DRY) (EPA Reg. No. 4822-572)

Version 2.1 Print Date 05/23/2018

Revision Date 03/01/2017 SDS Number 350000015104

10. STABILITY AND REACTIVITY

Possibility of hazardous

reactions

: If accidental mixing occurs and toxic gas is formed, exit area

immediately. Do not return until well ventilated.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Strong oxidizing agents

Do not mix with bleach or any other household cleaners.

Strong bases

Hazardous decomposition

products

: Thermal decomposition can lead to release of irritating gases

and vapours.

11. TOXICOLOGICAL INFORMATION

Emergency Overview : Danger

Acute oral toxicity : LD50 > 2,000 mg/kg

Acute inhalation toxicity : LC50 > 10 mg/L

Acute dermal toxicity : LD50 > 5,000 mg/kg

GHS Properties	Classification	Routes of entry
Acute toxicity	No classification proposed	Oral
Acute toxicity	No classification proposed	Dermal
Acute toxicity	No classification proposed	Inhalation - Dust and Mist
Acute toxicity	No classification proposed	Inhalation - Vapour
Acute toxicity	No classification proposed	Inhalation - Gas

according to Hazard Communication Standard; 29 CFR 1910.1200



OFF!® DEEP WOODS® INSECT REPELLENT VIII (DRY) (EPA Reg. No. 4822-572)

Version 2.1 Print Date 05/23/2018

Revision Date 03/01/2017 SDS Number 350000015104

Skin corrosion/irritation	No classification proposed	-
Eye irritation	Category 2A	-
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

Components	End point	Species	Value	Exposure time
N,N-Diethyl-m-toluamide	static test LC50	Oncorhynchus mykiss (rainbow trout)	71.25 mg/l	96 h

according to Hazard Communication Standard; 29 CFR 1910.1200



OFF!® DEEP WOODS® INSECT REPELLENT VIII (DRY) (EPA Reg. No. 4822-572)

Version 2.1 Print Date 05/23/2018

Revision Date 03/01/2017 SDS Number 350000015104

Ethyl alcohol	LC50	Fish	11,200 mg/l	96 h
Butane	LC50 QSAR	Fish	27.98 mg/l	96 h
Corn starch	static test LC50 Measured No informatio n available.	Fish	5,000 mg/l	96 h
Propane	LC50	Fish	27.98 mg/l	96 h
Isobutane	LC50 QSAR	Fish	27.98 mg/l	96 h
Isopropyl Myristate	LC50	Danio rerio (zebra fish)	8,400 mg/l	96 h
Magnesium carbonate	static test LC50	Pimephales promelas (fathead minnow)	2,800 mg/l	96 h

Toxicity to aquatic invertebrates

according to Hazard Communication Standard; 29 CFR 1910.1200



OFF!® DEEP WOODS® INSECT REPELLENT VIII (DRY) (EPA Reg. No. 4822-572)

Version 2.1 Print Date 05/23/2018

Revision Date 03/01/2017 SDS Number 350000015104

Components	End point	Species	Value	Exposure time
N,N-Diethyl-m-toluamide	LC50	Daphnia magna (Water flea)	75 mg/l	51 h
	semi- static test NOEC Measured OECD Guideline 211 (Daphnia magna Reproduct ion Test)	Daphnia magna	3.7 mg/l	21 d
Ethyl alcohol	static test LC50	Ceriodaphnia dubia		48 h
			5,012 mg/l	
	NOEC	Daphnia magna	9.6 mg/l	9 d
Butane	No data available			
Corn starch	No data available			
Propane	LC50	Daphnid	14.22 mg/l	48 h
Isobutane	LC50 QSAR	Daphnid	16.33 mg/l	48 h

according to Hazard Communication Standard; 29 CFR 1910.1200



OFF!® DEEP WOODS® INSECT REPELLENT VIII (DRY) (EPA Reg. No. 4822-572)

Version 2.1 Print Date 05/23/2018

Revision Date 03/01/2017 SDS Number 350000015104

Isopropyl Myristate	EC50	Daphnia magna (Water flea)	100 mg/l	48 h
Magnesium carbonate	No data available			

Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
N,N-Diethyl-m-toluamide	NOEC	Pseudokirchneriella subcapitata (green algae)	0.521 mg/l	96 h
Ethyl alcohol	Static EC50	Chlorella vulgaris (Fresh water algae)	275 mg/l	72 h
Butane	EC50 QSAR	Green algae	7.71 mg/l	96 h
Corn starch	No data available			
Propane	No data available			
Isobutane	EC50 QSAR	Green algae	8.57 mg/l	96 h
Isopropyl Myristate	EC50	Desmodesmus subspicatus	> 100 mg/l	72 h
Magnesium carbonate	static test EC50 Read- across (Analogy)	Desmodesmus subspicatus (green algae)	> 100 mg/l	72 h

according to Hazard Communication Standard; 29 CFR 1910.1200



OFF!® DEEP WOODS® INSECT REPELLENT VIII (DRY) (EPA Reg. No. 4822-572)

Version 2.1 Print Date 05/23/2018

Revision Date 03/01/2017 SDS Number 350000015104

Persistence and degradability

Component	Biodegradation	Exposure time	Summary
N,N-Diethyl-m-toluamide	83.8 %	28 d	Readily biodegradable
Ethyl alcohol	97 %	28 d	Readily biodegradable
Butane	100 %	385.5 h	Readily biodegradable
Corn starch	No data available		Readily biodegradable
Propane	70 %	< 10 d	Readily biodegradable
Isobutane	70 %	< 10 d	Readily biodegradable
Isopropyl Myristate	91.4 %	28 d	Readily biodegradable
Magnesium carbonate	No data available		

Bioaccumulative potential

Component	Bioconcentration factor (BCF)	Partition Coefficient n- Octanol/water (log)
N,N-Diethyl-m-toluamide	21.9 estimated	2.4
Ethyl alcohol	3.2 estimated	-0.35 Measured
Butane	No data available	2.89
Corn starch	No data available	No data available
Propane	No data available	2.36
Isobutane	1.57 - 1.97	2.8
Isopropyl Myristate	1,220.1	7.71
Magnesium carbonate	0.89 QSAR	-2.12 QSAR

according to Hazard Communication Standard; 29 CFR 1910.1200



OFF!® DEEP WOODS® INSECT REPELLENT VIII (DRY) (EPA Reg. No. 4822-572)

Version 2.1 Print Date 05/23/2018

Revision Date 03/01/2017 SDS Number 350000015104

Mobility

Component	End point	Value
N,N-Diethyl-m-toluamide	Koc	43.3
Ethyl alcohol	No data available	
Butane	No data available	
Corn starch	No data available	
Propane	No data available	
Isobutane	No data available	
Isopropyl Myristate	log Koc	4.08
Magnesium carbonate	No data available	

PBT and vPvB assessment

Component	Results
N,N-Diethyl-m-toluamide	Not fulfilling PBT and vPvB criteria
Ethyl alcohol	Not fulfilling PBT and vPvB criteria
Butane	Not fulfilling PBT and vPvB criteria
Corn starch	Not fulfilling PBT and vPvB criteria
Propane	Not fulfilling PBT and vPvB criteria
Isobutane	Not fulfilling PBT and vPvB criteria
Isopropyl Myristate	Not fulfilling PBT and vPvB criteria
Magnesium carbonate	Not fulfilling PBT and vPvB criteria

Other adverse effects : No data available

13. DISPOSAL CONSIDERATIONS

PESTICIDAL WASTE:

according to Hazard Communication Standard; 29 CFR 1910.1200



OFF!® DEEP WOODS® INSECT REPELLENT VIII (DRY) (EPA Reg. No. 4822-572)

Version 2.1 Print Date 05/23/2018

Revision Date 03/01/2017 SDS Number 350000015104

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
UN number	1950	1950	1950
UN proper	AEROSOLS,	AEROSOLS,	AEROSOLS,
shipping name	Flammable	Flammable	Flammable
Transport hazard	2.1	2	2.1
class(es)			
Packing group	-	-	-
Environmental	-	-	-
hazards			
Special	Limited quantities	Limited quantities	Limited quantities
precautions for	derogation may be	derogation may be	derogation may be
user	applicable to this	applicable to this	applicable to this
	product, please check	product, please	product, please check
	transport documents.	check transport	transport documents.
		documents.	

15. REGULATORY INFORMATION

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:

WARNING:

Causes substantial but temporary eye injury.

according to Hazard Communication Standard; 29 CFR 1910.1200



OFF!® DEEP WOODS® INSECT REPELLENT VIII (DRY) (EPA Reg. No. 4822-572)

Version 2.1 Print Date 05/23/2018

Revision Date 03/01/2017 SDS Number 350000015104

Harmful if swallowed.

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

Extremely flammable

Contents under pressure.

Exposure to temperatures above 120° F may cause bursting.

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 4822-572/US/EPA 30598/PMRA

16. OTHER INFORMATION

HMIS Ratings

niviio kauliys	
Health	2
Flammability	4
Reactivity	0

according to Hazard Communication Standard; 29 CFR 1910.1200



OFF!® DEEP WOODS® INSECT REPELLENT VIII (DRY) (EPA Reg. No. 4822-572)

Version 2.1 Print Date 05/23/2018

Revision Date 03/01/2017 SDS Number 350000015104

NFPA Ratings

Health	2	
Fire	4	
Reactivity	0	
Special	-	

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)	