

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR
1910.1200



Off! Insect Repellent 16 (EPA Reg. No. 4822-556)

Version 2.2

Print Date 04/16/2026

Revision Date 11/07/2025

SDS Number 350000015255

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Product name : Off! Insect Repellent 16 (EPA Reg. No. 4822-556)

Recommended use : Insect Repellent

Manufacturer, importer, supplier : S.C. Johnson & Son, Inc.
1525 Howe Street
Racine WI 53403-2236

Telephone : +1 8005585252
Emergency telephone number : 24 Hour Medical Emergency Phone: (866)231-5406
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 3	Flammable liquid and vapour.
Eye irritation	Category 2A	Causes serious eye irritation.

Labelling

Hazard symbols

Flame

Exclamation mark

Signal word

Warning

Hazard statements

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR
1910.1200



Off! Insect Repellent 16 (EPA Reg. No. 4822-556)

Version 2.2

Print Date 04/16/2026

Revision Date 11/07/2025

SDS Number 350000015255

Flammable liquid and vapour.

Causes serious eye irritation.

Precautionary statements

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

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.

Dispose of contents and container in accordance with local regulations.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Wear eye protection.

Other hazards : None identified

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No.	Weight percent
Ethyl alcohol	64-17-5	30.00 - 60.00
Icaridine	119515-38-7	20.00 - 30.00

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

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

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR
1910.1200



Off! Insect Repellent 16 (EPA Reg. No. 4822-556)

Version 2.2

Print Date 04/16/2026

Revision Date 11/07/2025

SDS Number 350000015255

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** : Dry sand, Dry chemical, Alcohol-resistant foam
- 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** : Do not flush into surface water or sanitary sewer system.

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR
1910.1200



Off! Insect Repellent 16 (EPA Reg. No. 4822-556)

Version 2.2

Print Date 04/16/2026

Revision Date 11/07/2025

SDS Number 350000015255

precautions

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.
Wash thoroughly after handling.

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.

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR
1910.1200



Off! Insect Repellent 16 (EPA Reg. No. 4822-556)

Version 2.2

Print Date 04/16/2026

Revision Date 11/07/2025

SDS Number 350000015255

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Components	CAS-No.	mg/m3	ppm	Non-standard units	Basis
Ethyl alcohol	64-17-5	-	1,000 ppm	-	ACGIH STEL
Ethyl alcohol	64-17-5	1,900 mg/m3	1,000 ppm	-	OSHA 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.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Color : translucent

Color : to

Color : light yellow

Odor : solvent-like

Odour Threshold : Test not applicable for this product type

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR
1910.1200



Off! Insect Repellent 16 (EPA Reg. No. 4822-556)

Version 2.2

Print Date 04/16/2026

Revision Date 11/07/2025

SDS Number 350000015255

pH : 5.6
at (25 °C)

Melting point/freezing point : Test not applicable for this product type

**Initial boiling point and
boiling range** : Test not applicable for this product type

Flash point : 31 °C
87.8 °F

Heat of Combustion : Test not applicable for this product type

Evaporation rate : Test not applicable for this product type

Flammability (solid, gas) : Sustains combustion

**Upper/lower flammability or
explosive limits** : Test not applicable for this product type

Vapour pressure : Test not applicable for this product type

Relative Vapor Density :

Relative density : 0.95 g/cm³ at 25 °C

Solubility(ies) : slightly soluble

**Partition coefficient: n-
octanol/water** : Test not applicable for this product type

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR
1910.1200



Off! Insect Repellent 16 (EPA Reg. No. 4822-556)

Version 2.2

Print Date 04/16/2026

Revision Date 11/07/2025

SDS Number 350000015255

Auto-ignition temperature : not auto-flammable

Decomposition temperature : Test not applicable for this product type

Viscosity, dynamic : Test not applicable for this product type

Viscosity, kinematic : Test not applicable for this product type

Oxidizing properties : Test not applicable for this product type

Volatile Organic Compounds : 30.4 % - additional exemptions may apply
Total VOC (wt. %)* *as defined by US Federal and State Consumer Product Regulations

Particle Characteristics : Not required as mixture is a liquid

Other information : None identified :

10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions, including those associated with foreseeable emergencies : 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.

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR
1910.1200



Off! Insect Repellent 16 (EPA Reg. No. 4822-556)

Version 2.2

Print Date 04/16/2026

Revision Date 11/07/2025

SDS Number 350000015255

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 : Warning

Acute oral toxicity : LD50 > 5000 mg/kg

Acute inhalation toxicity : LC50 > 10 mg/LLC50 > 10 mg/L

Acute dermal toxicity : LD50 > 5000 mg/kg

GHS Properties	Classification	Routes of entry	Interactive effects	Symptoms	Alternative Information Used	Method Used for Alternative Information
Acute toxicity	No classification proposed	Oral	None known.	-	No	Not Applicable
Acute	No	Dermal	None	-	No	Not

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR
1910.1200

**Off! Insect Repellent 16 (EPA Reg. No. 4822-556)**

Version 2.2

Print Date 04/16/2026

Revision Date 11/07/2025

SDS Number 350000015255

toxicity	classification proposed		known.			Applicable
Acute toxicity	No classification proposed	Inhalation - Dust and Mist	None known.	-	No	Not Applicable
Acute toxicity	No classification proposed	Inhalation - Vapour	None known.	-	No	Not Applicable
Acute toxicity	No classification proposed	Inhalation - Gas	None known.	-	No	Not Applicable
Acute toxicity	No classification proposed	Inhalation - Dust and Mist	None known.	-	No	Not Applicable
Skin corrosion/irritation	No classification proposed	-	None known.	-	No	Not Applicable
Eye irritation	Category 2A	-	None known.	Causes serious eye irritation.	No	Not Applicable
Skin sensitisation	No classification proposed	-	None known.	-	No	Not Applicable
Respiratory sensitisation	No classification proposed	-	None known.	-	No	Not Applicable
Germ cell mutagenicity	No classification proposed	-	None known.	-	No	Not Applicable
Carcinogenicity	No classification	-	None known.	-	No	Not Applicable

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR
1910.1200

**Off! Insect Repellent 16 (EPA Reg. No. 4822-556)**

Version 2.2

Print Date 04/16/2026

Revision Date 11/07/2025

SDS Number 350000015255

	proposed					
Reproductive toxicity	No classification proposed	-	None known.	-	No	Not Applicable
Specific target organ toxicity - single exposure	No classification proposed	-	None known.	-	No	Not Applicable
Specific target organ toxicity - repeated exposure	No classification proposed	-	None known.	-	No	Not Applicable
Aspiration hazard	No classification proposed	-	None known.	-	No	Not Applicable

Aggravated Medical Condition

: Do not apply to cuts or irritated skin.

IARC 1:

Substance	CAS#	% in Formula	IARC 1 - Known or anticipated Carcinogen	Comment
Ethyl alcohol	64-17-5	30.3967	X	This substance does not present a carcinogenic hazard in this product based on GHS criteria.

IARC 2A:

No component of this product present at levels $\geq 0.1\%$ is identified as probable, possible or confirmed human carcinogen by IARC.

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR
1910.1200



Off! Insect Repellent 16 (EPA Reg. No. 4822-556)

Version 2.2

Print Date 04/16/2026

Revision Date 11/07/2025

SDS Number 350000015255

IARC 2B:

No component of this product present at levels $\geq 0.1\%$ is identified as probable, possible or confirmed human carcinogen by IARC.

NTP:

Substance	CAS#	% in Formula	NTP - Known or Anticipated Carcinogen	Comment
Ethyl alcohol	64-17-5	30.3967	X	This substance does not present a carcinogenic hazard in this product based on GHS criteria.

OSHA:

Substance	CAS#	% in Formula	OSHA - Known or Anticipated Carcinogen	Comment
Ethyl alcohol	64-17-5	30.3967	X	This substance does not present a carcinogenic hazard in this product based on GHS criteria.

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR
1910.1200

**Off! Insect Repellent 16 (EPA Reg. No. 4822-556)**

Version 2.2

Print Date 04/16/2026

Revision Date 11/07/2025

SDS Number 350000015255

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	LC50	Fish	11,200 mg/l	96 h
Icaridine	LC50	Oncorhynchus mykiss (rainbow trout)	169.4 mg/l	96 h
	flow-through test NOEC Measured OECD Guideline 210 (Fish, Early-Life Stage Toxicity Test)	Danio rerio (zebra fish)	3.14 mg/l	32 d

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR
1910.1200

**Off! Insect Repellent 16 (EPA Reg. No. 4822-556)**

Version 2.2

Print Date 04/16/2026

Revision Date 11/07/2025

SDS Number 350000015255

Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
Ethyl alcohol	static test LC50	Ceriodaphnia dubia	5,012 mg/l	48 h
	NOEC	Daphnia magna	9.6 mg/l	9 d
Icaridine	EC50	Daphnia magna (Water flea)	> 103 mg/l	48 h

Toxicity to aquatic plants

Components	End point	Species	Value	Exposure
------------	-----------	---------	-------	----------

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR
1910.1200

**Off! Insect Repellent 16 (EPA Reg. No. 4822-556)**

Version 2.2

Print Date 04/16/2026

Revision Date 11/07/2025

SDS Number 350000015255

				time
Ethyl alcohol	Static EC50	Chlorella vulgaris (Fresh water algae)	275 mg/l	72 h
Icaridine	NOEC	Desmodesmus subspicatus (green algae)	54.8 mg/l	72 h

Persistence and degradability

Component	Biodegradation	Exposure time	Summary
Ethyl alcohol	97 %	28 d	Readily biodegradable.
Icaridine	< 1 %	28 d	Not readily biodegradable.

Bioaccumulative potential

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
Ethyl alcohol	3.2 estimated	-0.35 Measured
Icaridine	10 - 19	2.11

Mobility

Component	End point	Value
Ethyl alcohol	Koc	1
Icaridine	No data available	

PBT and vPvB assessment

Component	Results
Ethyl alcohol	Not fulfilling PBT and vPvB criteria
Icaridine	Not fulfilling PBT and vPvB criteria

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR
1910.1200



Off! Insect Repellent 16 (EPA Reg. No. 4822-556)

Version 2.2

Print Date 04/16/2026

Revision Date 11/07/2025

SDS Number 350000015255

--	--

Other adverse effects : No data available

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
UN number or identification number	1170	1170	1170
UN proper shipping name	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Transport hazard class(es)	3	3	3
Packing group	III	III	III
Environmental hazards	-	-	-
Special precautions for user	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

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR
1910.1200



Off! Insect Repellent 16 (EPA Reg. No. 4822-556)

Version 2.2

Print Date 04/16/2026

Revision Date 11/07/2025

SDS Number 350000015255

FIFRA Labeling

WARNING:
SEVERE EYE IRRITANT.

Avoid contact with eyes.

Flammable.

Keep away from heat, sparks and flame.

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.

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.

California Prop. 65 : This product is not subject to the reporting requirements under California's Proposition 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
4822-556/US/EPA

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR
1910.1200



Off! Insect Repellent 16 (EPA Reg. No. 4822-556)

Version 2.2

Print Date 04/16/2026

Revision Date 11/07/2025

SDS Number 350000015255

16. OTHER INFORMATION

HMIS Ratings

Health	2
Flammability	3
Reactivity	0

NFPA Ratings

Health	2
Fire	3
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.

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR
1910.1200



Off! Insect Repellent 16 (EPA Reg. No. 4822-556)

Version 2.2

Print Date 04/16/2026

Revision Date 11/07/2025

SDS Number 350000015255

Prepared by	SC Johnson Global Safety Assessment & Regulatory Affairs (GSARA)
-------------	---