

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



Raid Essentials Fly Gnat & Mosquito Killer 28 (25(b))

Version 1.3

Print Date 06/01/2022

Revision Date 10/22/2020

SDS Number 350000037532

GEN_SOF Number 67490

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Product name : Raid Essentials Fly Gnat & Mosquito Killer 28 (25(b))

Recommended use : Insecticide

Restrictions on use : Use only as directed on label

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

Telephone : +1-800-558-5252

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
Aerosol	Category 2	Flammable aerosol.
Serious eye damage	Category 2B	Causes serious eye irritation.
Skin sensitisation	Category 1B	May cause an allergic skin reaction.
Gases under pressure	Compressed gas	Contains gas under pressure; may explode if heated.

Labelling

Hazard symbols

Flame
Gas cylinder
Exclamation mark

Signal word

Warning

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Hazard statements

Flammable aerosol.

Contains gas under pressure; may explode if heated.

Causes eye irritation.

May cause an allergic skin reaction.

Precautionary statements

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

Keep out of reach of children.

Read label before use.

Specific treatment (see supplemental first aid instructions on this label).

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/ attention.

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.

Wash contaminated clothing before reuse.

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

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

Dispose of contents/ container to an approved incineration plant.

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

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

Pressurized container: Do not pierce or burn, even after use.

Wear protective gloves.

Avoid breathing spray.

Wash hands thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

Other hazards : Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No.	Weight percent
White Mineral Oil, (Petroleum)	8042-47-5	60.00 - 100.00
Isopropyl Myristate	110-27-0	5.00 - 10.00
Ethyl (L)-lactate	687-47-8	5.00 - 10.00

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Carbon dioxide	124-38-9	1.00 - 5.00
Geraniol	106-24-1	1.47 -

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

Description of first aid measures

- 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** : Wash off with plenty of water. If skin irritation or rash occurs: Get medical advice/ attention.
- Inhalation** : No special requirements.
- Ingestion** : No special requirements

Most important symptoms and effects, both acute and delayed

- Eyes** : Causes serious eye irritation.
- Skin effect** : May cause allergic skin reaction.
No adverse effects expected when used as directed.
- Inhalation** : Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.
May cause allergic respiratory reaction.
- Ingestion** : May cause irritation to mouth, throat and stomach.
May cause abdominal discomfort.
No adverse effects expected when used as directed.

Indication of any immediate medical attention and special treatment needed

See Description of first aid measures unless otherwise stated.

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5. FIREFIGHTING MEASURES

- Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific hazards during firefighting** : Do not use a solid water stream as it may scatter and spread fire. 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.

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.
- 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.

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7. HANDLING AND STORAGE

Handling

Precautions for safe handling

: Avoid contact with skin, eyes and clothing.
Do not enter places where used or stored until adequately ventilated.
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.
Contaminated work clothing should not be allowed out of the workplace.
Avoid breathing vapours, mist or gas.
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.
Protect from sunlight.
Store in a well-ventilated place.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Occupational Exposure Limits**

Components	CAS-No.	mg/m3	ppm	Non-standard units	Basis
White Mineral Oil, (Petroleum)	8042-47-5	5 mg/m3	-	-	OSHA TWA
Carbon dioxide	124-38-9	9,000 mg/m3	5,000 ppm	-	OSHA TWA
Carbon dioxide	124-38-9	-	30,000 ppm	-	ACGIH STEL
Carbon dioxide	124-38-9	-	5,000 ppm	-	ACGIH TWA

Personal protective equipment**Respiratory protection** : Do not spray in enclosed areas.**Hand protection** : Wear suitable gloves.**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**Color** : colourless**Odour** : solvent-like**Odour Threshold** : Test not applicable for this product type

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pH : Test not applicable for this product type

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 : 68 °C
154.4 °F
Method: Tag Closed Cup (TCC)
liquid
Method: No information available.
Propellant

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

Vapour density : Test not applicable for this product type

Relative density : 0.8491 g/cm³ at 21 °C

Solubility(ies) : insoluble

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

Auto-ignition temperature : Test not applicable for this product type

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Decomposition temperature	: Test not applicable for this product type	
Viscosity, dynamic	: 12.4 mPa.s at 20 °C	
Viscosity, kinematic	: Test not applicable for this product type	
Oxidizing properties	: Test not applicable for this product type	
Volatile Organic Compounds Total VOC (wt. %)*	: 6.5 % - additional exemptions may apply *as defined by US Federal and State Consumer Product Regulations	
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	: Stable under recommended storage conditions.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition products	: Thermal decomposition can lead to release of irritating gases and vapours.

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11. TOXICOLOGICAL INFORMATION**Acute oral toxicity** : LD50 > 5000 mg/kg**Acute inhalation toxicity** : LC50 > 10 mg/L**Acute dermal toxicity** : LD50 2399 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
Skin corrosion/irritation	No classification proposed	-
Serious eye damage	Category 2B	-
Skin sensitisation	Category 1B	-
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	-

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Aggravated Medical Condition : None known.

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
White Mineral Oil, (Petroleum)	LC50	Oncorhynchus mykiss (rainbow trout)	> 100 mg/l	96 h
Isopropyl Myristate	LC50	Danio rerio (zebra fish)	8,400 mg/l	96 h
Ethyl (L)-lactate	semi-static test LC50	Danio rerio (zebra fish)	320 mg/l	96 h
Carbon dioxide	No data available			
Geraniol	static test LC50	Danio rerio (zebra fish)	22 mg/l	96 h

Toxicity to aquatic invertebrates

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Components	End point	Species	Value	Exposure time
White Mineral Oil, (Petroleum)	LC50	Daphnia magna (Water flea)	> 100 mg/l	48 h
Isopropyl Myristate	EC50	Daphnia magna (Water flea)	100 mg/l	48 h
Ethyl (L)-lactate	EC50	Daphnia magna (Water flea)	683 mg/l	48 h
Carbon dioxide	No data available			
Geraniol	semi-static test EC50	Daphnia magna (Water flea)	7.75 mg/l	48 h

Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
White Mineral Oil, (Petroleum)	NOEC	Green algae	>= 100 mg/l	72 h
Isopropyl Myristate	EC50	Desmodesmus subspicatus	> 100 mg/l	72 h
Ethyl (L)-lactate	No data available			
Carbon dioxide	No data available			
Geraniol	static test ErC50	Scenedesmus capricornutum (fresh)	5.36 mg/l	72 h

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		water algae)		
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Persistence and degradability

Component	Biodegradation	Exposure time	Summary
White Mineral Oil, (Petroleum)	50 %	28 d	Not readily biodegradable.
Isopropyl Myristate	91.4 %	28 d	Readily biodegradable.
Ethyl (L)-lactate	No data available		
Carbon dioxide	No data available		
Geraniol	82 %	28 d	Readily biodegradable.

Bioaccumulative potential

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
White Mineral Oil, (Petroleum)	No data available	> 6
Isopropyl Myristate	1,220.1	7.71
Ethyl (L)-lactate	No data available	0.06
Carbon dioxide	No data available	No data available
Geraniol	No data available	2.6

Mobility

Component	End point	Value
White Mineral Oil, (Petroleum)	No data available	
Isopropyl Myristate	log Koc	4.08
Ethyl (L)-lactate	No data available	
Carbon dioxide	No data available	
Geraniol	Koc	70.79

PBT and vPvB assessment

Component	Results
White Mineral Oil, (Petroleum)	Not fulfilling PBT and vPvB criteria

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Isopropyl Myristate		Not fulfilling PBT and vPvB criteria
Ethyl (L)-lactate		Not fulfilling PBT and vPvB criteria
Carbon dioxide		Not fulfilling PBT and vPvB criteria
Geraniol		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.

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	Land transport	Sea transport	Air transport
UN number	1950	1950	1950
UN proper shipping name	AEROSOLS, Flammable	AEROSOLS, Flammable	AEROSOLS, Flammable
Transport hazard class(es)	2.1	2	2.1
Packing group	-	-	-
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.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Product not transported as bulk.	Product not transported as bulk.	Product not transported as bulk.

15. REGULATORY INFORMATION**FIFRA Labeling**

This chemical is a pesticide product that qualifies for exemption from regulation under the Federal Insecticide, Fungicide, and Rodenticide Act and has not been registered by the Environmental Protection Agency. It is subject to certain labeling requirements, and these requirements may 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:

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.
Causes substantial but temporary eye injury.

Do not get in eyes or on clothing.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

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Remove and wash contaminated clothing before reuse.
Keep away from heat and flame.

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.

16. OTHER INFORMATION

HMIS Ratings

Health	1
Flammability	3
Reactivity	0

NFPA Ratings

Health	1
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

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