according to Hazard Communication Standard; 29 CFR 1910.1200



## RAID® FLYING INSECT KILLER 7 (OUTDOOR FRESH®) (EPA Reg. No. 4822-569)

Version 0.0 Print Date 09/06/2016

Revision Date 00/00/0000 SDS Number 350000016793

#### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product information** 

Product name : RAID® FLYING INSECT KILLER 7 (OUTDOOR FRESH®)

(EPA Reg. No. 4822-569)

Recommended use : Insecticide

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

Hazard classification	Hazard category	Hazards identification
Aerosol	Category 2	Flammable aerosol.
Gases under pressure	Liquefied gas	Contains gas under pressure;
		may explode if heated.

#### Labelling

#### **Hazard symbols**

Flame

Gas cylinder

#### Signal word

Warning

#### **Hazard statements**

Flammable aerosol.

Contains gas under pressure; may explode if heated.

#### **Precautionary statements**

according to Hazard Communication Standard; 29 CFR 1910.1200



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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.

Other hazards : None identified

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight percent
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-47-8	10.00 - 30.00
Butane	106-97-8	5.00 - 10.00
Propane	74-98-6	5.00 - 10.00
Isobutane	75-28-5	5.00 - 10.00
d-Phenothrin	188023-86-1	0.10 - 1.00
Prallethrin	23031-36-9	0.10 - 1.00

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** : No special requirements

**Skin contact** : No special requirements

**Inhalation** : No special requirements.

**Ingestion** : No special requirements

#### 5. FIREFIGHTING MEASURES

Suitable extinguishing : Use water spray, alcohol-resistant foam, dry chemical or

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media carbon dioxide.

Specific hazards during

firefighting

: 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. 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.

#### 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.

according to Hazard Communication Standard; 29 CFR 1910.1200



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Use only as directed.

KEEP OUT OF REACH OF CHILDREN AND PETS.

Pressurized container.

Do not pierce or burn, even after use.

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
Hydrocarbons, C14-C18, n- alkanes, isoalkanes, cyclics, <2% aromatics	64742-47-8	1,200 mg/m3	152 ppm	-	SUPPLIER
Butane	106-97-8	-	1,000 ppm	-	ACGIH STEL
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

#### 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

according to Hazard Communication Standard; 29 CFR 1910.1200



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Form : aerosol

Form Compressed gas

Color translucent

Odor pleasant

**Odour Threshold** : No data available

рΗ : Not applicable

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) : No data available

Upper/lower flammability or : No data available

explosive limits

: No data available Vapour pressure

Vapour density : No data available

Relative density : 0.82 g/cm3

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Solubility(ies) : dispersible

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 : 19 % - additional exemptions may apply

Compounds \*as defined by US Federal and State Consumer Product

Total VOC (wt. %)\* Regulations

Other information : None identified :

#### **10. STABILITY AND REACTIVITY**

Possibility of hazardous

reactions

: Stable under recommended storage conditions.

**Conditions to avoid** : Heat, flames and sparks.

**Incompatible materials** : Strong oxidizing agents

according to Hazard Communication Standard; 29 CFR 1910.1200



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Hazardous decomposition

products

: Thermal decomposition can lead to release of irritating gases

and vapours.

#### 11. TOXICOLOGICAL INFORMATION

**Emergency Overview** : Warning

Acute oral toxicity : Acute inhalation toxicity :

Acute dermal toxicity :

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

: None known.

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#### 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
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	LC50	Fish	> 1,028 mg/l	96 h
Butane	LC50 QSAR	Fish	27.98 mg/l	96 h
Propane	LC50	Fish	27.98 mg/l	96 h
Isobutane	LC50 QSAR	Fish	27.98 mg/l	96 h
d-Phenothrin	LC50	Oncorhynchus mykiss (rainbow trout)	0.0027 mg/l	96 h
	NOEC	Oncorhynchus mykiss (rainbow trout)	> 0.0011 mg/l	90 d
Prallethrin	LC50	Oncorhynchus mykiss (rainbow trout)	0.012 mg/l	96 h

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flow- through test NOEC  Concorhynchus mykiss (rainbow trout)  Oncorhynchus mykiss (rainbow trout)	90 d
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#### **Toxicity to aquatic invertebrates**

Components	End point	Species	Value	Exposure time
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	EC50	Daphnid	> 3,193 mg/l	48 h
Butane	No data available			
Propane	LC50	Daphnid	14.22 mg/l	48 h
Isobutane	LC50 QSAR	Daphnid	16.33 mg/l	48 h
d-Phenothrin	EC50	Daphnia (water flea)	0.0043 mg/l	48 h
	NOEC	Daphnia (water flea)	0.00047 mg/l	21 d
Prallethrin	EC50	Daphnia magna (Water flea)	0.0062 mg/l	48 h
	NOEC	Daphnia magna	0.00065 mg/l	21 d

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#### Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	EC50	Skeletonema costatum	> 3,198 mg/l	72 h
Butane	EC50 QSAR	Green algae	7.71 mg/l	96 h
Propane	No data available			
Isobutane	EC50 QSAR	Green algae	8.57 mg/l	96 h
d-Phenothrin	EbC50	Algae	> 0.011 mg/l	72 h
Prallethrin	EC50	Pseudokirchneriella subcapitata (green algae)	2 mg/l	96 h

Persistence and degradability

Component	Biodegradation	Exposure time	Summary
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	74 %	28 d	Readily biodegradable
Butane	100 %	385.5 h	Readily biodegradable
Propane	70 %	< 10 d	Readily biodegradable
Isobutane	70 %	< 10 d	Readily biodegradable
d-Phenothrin	1 %	28 d	Not readily biodegradable.
Prallethrin	No data available		Not readily biodegradable.

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#### **Bioaccumulative potential**

Component	Bioconcentration factor (BCF)	Partition Coefficient n- Octanol/water (log)
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	61 - 159	No data available
Butane	No data available	2.89
Propane	No data available	2.36
Isobutane	1.57 - 1.97	2.8
d-Phenothrin	2,506 - 3,192 Measured	6.8
Prallethrin	No data available	4.49

#### **Mobility**

Component	End point	Value
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	No data available	
Butane	No data available	
Propane	No data available	
Isobutane	No data available	
d-Phenothrin	Koc	125893
Prallethrin	No data available	

#### PBT and vPvB assessment

Component	Results
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	Not fulfilling PBT and vPvB criteria
Butane	Not fulfilling PBT and vPvB criteria
Propane	Not fulfilling PBT and vPvB criteria

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Isobutane	Not fulfilling PBT and vPvB criteria
d-Phenothrin	Not fulfilling PBT and vPvB criteria
Prallethrin	Not fulfilling PBT and vPvB criteria

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	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.	

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#### 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:

#### CAUTION:

Causes moderate eye irritation.

CONTENTS UNDER PRESSURE.

Exposure to temperatures above 130° F may cause bursting.

Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

This product is highly toxic to fish and aquatic invertebrates.

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.

#### Registration # / Agency

4822-569/US/EPA

#### **16. OTHER INFORMATION**

#### **HMIS Ratings**

riwio italings	
Health	2
Flammability	4
Reactivity	0

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**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 &
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