

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



RAID® ANT & ROACH KILLER 17 (OUTDOOR FRESH®)

Version 1.0

Print Date 03/04/2015

Revision Date 02/24/2015

SDS Number 350000017507

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

- Product name** : RAID® ANT & ROACH KILLER 17 (OUTDOOR FRESH®)
- 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

- 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.

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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
Propane	74-98-6	5.00 - 10.00
Butane	106-97-8	1.00 - 5.00
Isobutane	75-28-5	1.00 - 5.00
Isopropanol	67-63-0	1.00 - 5.00
Imiprothrin	72963-72-5	0.10 - 1.00
Cypermethrin	52315-07-8	0.0001 - 0.10

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 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.

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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. 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.
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.

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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 feedings.
Keep in a dry, cool and well-ventilated place.
Protect from sunlight.
Store in a well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Components	CAS-No.	mg/m ³	ppm	Non-standard units	Basis
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-47-8	1,200 mg/m ³	152 ppm	-	SUPPLIER
Propane	74-98-6	-	1,000 ppm	-	ACGIH TWA
Propane	74-98-6	1,800 mg/m ³	1,000 ppm	-	OSHA TWA
Butane	106-97-8	-	1,000 ppm	-	ACGIH STEL
Isobutane	75-28-5	-	1,000 ppm	-	ACGIH STEL
Isopropanol	67-63-0	980 mg/m ³	400 ppm	-	OSHA TWA
Isopropanol	67-63-0	-	400 ppm	-	ACGIH STEL
Isopropanol	67-63-0	-	200 ppm	-	ACGIH TWA

Personal protective equipment

Respiratory protection : Do not spray in enclosed areas.

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- 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

- Form** : aerosol
- Color** : clear
- Odor** : pleasant

- Odour Threshold** : No data available

- pH** : No data available

- Melting point/freezing point** : No data available
- Initial boiling point and boiling range** : No data available
- Flash point** : -7 °C
19.4 °F

- Evaporation rate** : No data available

- Flammability (solid, gas)** : No data available

- Upper/lower flammability or explosive limits** : No data available

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Vapour pressure	:	No data available
Vapour density	:	No data available
Relative density	:	0.877 g/cm ³ at 21.11 °C
Solubility(ies)	:	partly soluble
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	
Decomposition temperature	:	No data available
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Oxidizing properties	:	No data available
Volatile Organic Compounds Total VOC (wt. %)*	:	12.1 % - additional exemptions may apply *as defined by US Federal and State Consumer Product 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.

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Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : Thermal decomposition can lead to release of irritating gases and vapours.

11. TOXICOLOGICAL INFORMATION

Emergency Overview : Warning

Acute oral toxicity : NA GHS LD50
estimated
> 5,000 mg/kg

Acute inhalation toxicity : NA GHS LC50 (dust and mist)
estimated
> 5.1 mg/l

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

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	-

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Specific target organ toxicity - repeated exposure	No classification proposed	-
Aspiration hazard	No classification proposed	-

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
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	LC50	Fish	> 1,028 mg/l	96 h
Propane	LC50	Fish	27.98 mg/l	96 h
Butane	No data available			
Isobutane	LC50	Fish	27.98 mg/l	96 h
Isopropanol	LC50	Pimephales promelas (fathead minnow)	9,640 mg/l	96 h
Imiprothrin	LC50	Oncorhynchus mykiss (rainbow trout)	0.038 mg/l	96 h

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Cypermethrin	LC50	Oncorhynchus mykiss (rainbow trout)	0.00283 mg/l	96 h
	NOEC	Pimephales promelas (fathead minnow)	0.00001 mg/l	28 d

Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	EC50 No data available		> 3,193 mg/l	48 h
Propane	LC50	Daphnid	14.22 mg/l	48 h
Butane	No data available			
Isobutane	LC50	Daphnid	16.33 mg/l	48 h
Isopropanol	EC50	Daphnia magna (Water flea)	13,299 mg/l	48 h
Imiprothrin	EC50	Daphnia magna (Water flea)	0.051 mg/l	48 h
Cypermethrin	EC50	Daphnia magna (Water flea)	0.00471 mg/l	48 h

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	NOEC	Daphnia magna (Water flea)	0.00004 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
Propane	No data available			
Butane	No data available			
Isobutane	EC50	Green algae	8.57 mg/l	96 h
Isopropanol	EC50	Desmodesmus subspicatus (green algae)	> 1,000 mg/l	72 h
Imiprothrin	NOEC	Pseudokirchneriella subcapitata (green algae)	1.3 mg/l	72 h
Cypermethrin	ErC50 No data available		> 0.0033 mg/l	72 h

Persistence and degradability

Component	Biodegradation	Exposure time	Summary
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	No data available		
Propane	70 %	< 10 d	Readily biodegradable
Butane	100 %	385.5 h	Readily biodegradable
Isobutane	70 %	< 10 d	Readily biodegradable
Isopropanol	53 %	5 d	Readily biodegradable
Imiprothrin	58 %	28 d	Not readily biodegradable.

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Cypermethrin	0.6 - 1.4 %	33 d	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	No data available	No data available
Propane	No data available	2.36
Butane	No data available	2.89
Isobutane	1.57 - 1.97	2.8
Isopropanol	0.96 estimated	0.05
Imiprothrin	58.2 Calculated	2.9
Cypermethrin	373.4 Measured	5.3 - 5.6

Mobility

Component	End point	Value
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	No data available	-
Propane	No data available	
Butane	No data available	
Isobutane	No data available	
Isopropanol	No data available	
Imiprothrin	Koc	268
Cypermethrin	Koc	80653 - 574360

PBT and vPvB assessment

Component	Results
Propane	Not fulfilling PBT and vPvB criteria
Butane	Not fulfilling PBT and vPvB criteria
Isobutane	Not fulfilling PBT and vPvB criteria

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Isopropanol	Not fulfilling PBT and vPvB criteria
Imiprothrin	Not fulfilling PBT and vPvB criteria
Cypermethrin	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.

	Land transport	Sea transport	Air transport
UN number	1950	1950	1950
UN proper shipping name	AEROSOLS, Flammable, 2.1	AEROSOLS, Flammable, 2.1	AEROSOLS, Flammable, 2.1
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.

15. REGULATORY INFORMATION

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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:

- Contents under pressure.
- Flammable.
- Exposure to temperatures above 130° 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.

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.

Registration # / Agency
4822-447/US/EPA

16. OTHER INFORMATION

HMIS Ratings

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 & Regulatory Affairs (GSARA)
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