

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



RAID® ANT & ROACH KILLER 26 (FRAGRANCE FREE)

Version 0.0

Print Date 09/06/2016

Revision Date 00/00/0000

SDS Number 350000025980

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Product name : RAID® ANT & ROACH KILLER 26 (FRAGRANCE FREE)

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 |
|-----------------|------------|----------------|
| Alkanes, C14-16 | 90622-46-1 | 10.00 - 30.00 |
| Isobutane | 75-28-5 | 5.00 - 10.00 |
| Propane | 74-98-6 | 1.00 - 5.00 |
| Isopropanol | 67-63-0 | 1.00 - 5.00 |
| Cypermethrin | 52315-07-8 | 0.10 - 1.00 |
| Imiprothrin | 72963-72-5 | 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.
Further information : Fight fire from maximum distance or protected area. Although this product has a flash point below 200 Deg F, it is an aqueous solution containing an alcohol and does not sustain

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combustion. Cool and use caution when approaching or handling fire-exposed containers. Fight fire with normal precautions from a reasonable distance. Standard procedure for chemical fires. 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 feedingstuffs.
Keep in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

| Components | CAS-No. | mg/m ³ | ppm | Non-standard units | Basis |
|-------------|---------|-------------------------|-----------|--------------------|------------|
| Isobutane | 75-28-5 | - | 1,000 ppm | - | ACGIH STEL |
| Propane | 74-98-6 | - | 1,000 ppm | - | ACGIH TWA |
| Propane | 74-98-6 | 1,800 mg/m ³ | 1,000 ppm | - | OSHA TWA |
| 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.

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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

- Form** : aerosol
- Form** : Compressed gas
- Color** : clear
- Odor** : odourless

- Odour Threshold** : Test not applicable for this product type

- 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** : < 0 °C
< 32 °F
Propellant
18 °C
64.4 °F
liquid

- Evaporation rate** : Test not applicable for this product type

- Flammability (solid, gas)** : Does not sustain combustion.

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

- Vapour pressure** : Test not applicable for this product type

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| | | | |
|------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------|------------|
| Vapour density | : | Test not applicable for this product type | : |
| Relative density | : | 0.877 g/cm ³ at 70 °F | Calculated |
| Solubility(ies) | : | partly soluble | : |
| Partition coefficient: n-octanol/water | : | Test not applicable for this product type | : |
| Auto-ignition temperature | : | does not ignite | : |
| 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 Total VOC (wt. %)* | : | 12 % - 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. |
| 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
see user defined free text

Acute inhalation toxicity : NA GHS LC50 (dust and mist)
estimated
> 5.1 mg/l
see user defined free text

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 | - |

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| | | |
|----------------------------------------------------|----------------------------|---|
| 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.

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 |
|-----------------|-------------------|--------------------------------------|--------------|---------------|
| Alkanes, C14-16 | No data available | | | |
| Isobutane | LC50 | Fish | 27.98 mg/l | 96 h |
| Propane | LC50 | Fish | 27.98 mg/l | 96 h |
| Isopropanol | LC50 | Pimephales promelas (fathead minnow) | 9,640 mg/l | 96 h |
| Cypermethrin | LC50 | Oncorhynchus mykiss (rainbow trout) | 0.00283 mg/l | 96 h |
| | NOEC | Pimephales promelas | 0.00001 | 28 d |

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| | | (fathead minnow) | mg/l | |
|-------------|------|----------------------------------------|------------|------|
| Imiprothrin | LC50 | Oncorhynchus mykiss (rainbow trout) | 0.038 mg/l | 96 h |

Toxicity to aquatic invertebrates

| Components | End point | Species | Value | Exposure time |
|-----------------|-------------------|----------------------------|--------------|---------------|
| Alkanes, C14-16 | No data available | | | |
| Isobutane | LC50 | Daphnid | 16.33 mg/l | 48 h |
| Propane | LC50 | Daphnid | 14.22 mg/l | 48 h |
| Isopropanol | EC50 | Daphnia magna (Water flea) | 13,299 mg/l | 48 h |
| Cypermethrin | EC50 | Daphnia magna (Water flea) | 0.00471 mg/l | 48 h |
| | NOEC | Daphnia magna (Water flea) | 0.00004 mg/l | 21 d |
| Imiprothrin | EC50 | Daphnia magna (Water flea) | 0.051 mg/l | 48 h |

Toxicity to aquatic plants

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| Components | End point | Species | Value | Exposure time |
|-----------------|----------------------------|-----------------------------------------------|---------------|---------------|
| Alkanes, C14-16 | No data available | | | |
| Isobutane | EC50 | Green algae | 8.57 mg/l | 96 h |
| Propane | No data available | | | |
| Isopropanol | EC50 | Desmodesmus subspicatus (green algae) | > 1,000 mg/l | 72 h |
| Cypermethrin | ErC50 No data available | | > 0.0033 mg/l | 72 h |
| Imiprothrin | NOEC | Pseudokirchneriella subcapitata (green algae) | 1.3 mg/l | 72 h |

Persistence and degradability

| Component | Biodegradation | Exposure time | Summary |
|-----------------|----------------|---------------|----------------------------|
| Alkanes, C14-16 | 82 % | 28 d | Readily biodegradable |
| Isobutane | 70 % | < 10 d | Readily biodegradable |
| Propane | 70 % | < 10 d | Readily biodegradable |
| Isopropanol | 53 % | 5 d | Readily biodegradable |
| Cypermethrin | 0.6 - 1.4 % | 33 d | Not readily biodegradable. |
| Imiprothrin | 58 % | 28 d | Not readily biodegradable. |

Bioaccumulative potential

| Component | Bioconcentration factor (BCF) | Partition Coefficient n-Octanol/water (log) |
|-----------------|-------------------------------|---------------------------------------------|
| Alkanes, C14-16 | No data available | No data available |
| Isobutane | 1.57 - 1.97 | 2.8 |

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| | | |
|--------------|-------------------|-----------|
| Propane | No data available | 2.36 |
| Isopropanol | 0.96 estimated | 0.05 |
| Cypermethrin | 373.4 Measured | 5.3 - 5.6 |
| Imiprothrin | 58.2 Calculated | 2.9 |

Mobility

| Component | End point | Value |
|-----------------|-------------------|----------------|
| Alkanes, C14-16 | No data available | |
| Isobutane | No data available | |
| Propane | No data available | |
| Isopropanol | No data available | |
| Cypermethrin | Koc | 80653 - 574360 |
| Imiprothrin | Koc | 268 |

PBT and vPvB assessment

| Component | Results |
|-----------------|--------------------------------------|
| Alkanes, C14-16 | Not fulfilling PBT and vPvB criteria |
| Isobutane | Not fulfilling PBT and vPvB criteria |
| Propane | Not fulfilling PBT and vPvB criteria |
| Isopropanol | Not fulfilling PBT and vPvB criteria |
| Cypermethrin | Not fulfilling PBT and vPvB criteria |
| Imiprothrin | 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

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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

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.
Exposure to temperatures above 130° F may cause bursting.
Flammable.

Notification status : All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA)

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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
4822-596/US/EPA

16. OTHER INFORMATION

HMIS Ratings

| | |
|---------------------|---|
| Health | 2 |
| Flammability | 4 |
| Reactivity | 0 |

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.

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