

Safety Data Sheet

classification according to Canadian Hazardous Products Regulation



RAID MAX® HOME INSECT KILLER (REG NO 29322 P.C.P. ACT)

Version 1.0

Print Date 06/21/2017

Revision Date 05/25/2017

SDS Number 350000010614

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

- Product name** : RAID MAX® HOME INSECT KILLER (REG NO 29322 P.C.P. ACT)
- Recommended use** : Insecticide
- Restrictions on use** : Use only as directed on label
- Manufacturer, importer, supplier** : S.C. Johnson and Son, Limited
1 Webster Street
Brantford ON N3T 5R1
- Telephone** : +1-800-558-5566
- Emergency telephone number** : 24 Hour Transport & Medical Emergency Phone (866) 231-5406
24 Hour International Emergency Phone (952) 852-4647
24 Hour Canadian Transport Emergency Phone (CANUTEC) (613) 996-6666

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Globally Harmonized System (GHS) Classification

| Hazard classification | Hazard category | Hazards identification |
|-----------------------|-----------------|------------------------------|
| Aerosol | Category 1 | Extremely flammable aerosol. |

Labelling

Hazard symbols

Flame

Signal word

Danger

Hazard statements

Extremely flammable aerosol.

Precautionary statements

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

Other hazards : Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.
Excessive exposure to spray mist, fog or vapour may cause respiratory irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous chemicals present at or above reportable levels as defined by Canadian Hazardous Products Regulation are listed in this table.

| Chemical name | CAS-No. | Weight percent |
|--------------------|-----------|----------------|
| Isobutane | 75-28-5 | 13.00 - 30.00 |
| Propane | 74-98-6 | 3.00 - 5.00 |
| Piperonyl butoxide | 51-03-6 | 0.10 - 1.00 |
| Pyrethrum | 8003-34-7 | 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

Description of first aid measures

Eye contact : No special requirements
Skin contact : No special requirements
Inhalation : No special requirements.

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Ingestion : No special requirements

Most important symptoms and effects, both acute and delayed

Eyes : May irritate eyes.

Skin effect : No adverse effects expected when used as directed.

Inhalation : Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal. Excessive exposure to spray mist, fog or vapour may cause respiratory irritation.

Ingestion : 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.

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. 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.

NFPA Classification : NFPA Level 1 Aerosol

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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/m3 | ppm | Non-standard units | Basis |
|------------|---------|-------|-----------|--------------------|------------|
| Isobutane | 75-28-5 | - | 1,000 ppm | - | ACGIH STEL |
| Propane | 74-98-6 | - | - | - | 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

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| | | |
|---|---|--|
| Form | : | aerosol |
| Color | : | colourless |
| Odour | : | characteristic |
| Odour Threshold | : | No data available |
| pH | : | 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 Method: Tag Closed Cup (TCC) |
| Evaporation rate | : | No data available |
| Flammability (solid, gas) | : | No data available |
| Upper/lower flammability or explosive limits | : | No data available |
| Vapour pressure | : | Not applicable |
| Vapour density | : | No data available |
| Relative density | : | 0.804 g/cm ³ |
| Solubility(ies) | : | partly soluble |

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Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : Not applicable

Oxidizing properties : No data available

Volatile Organic Compounds Total VOC (wt. %)* : 30.2 % - 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.

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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

Acute oral toxicity : LD50 > 2000 mg/kg

Acute inhalation toxicity : LC50 > 5 mg/L

Acute dermal toxicity : LD50 > 2000 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/eye irritation | No classification proposed | - |
| Skin sensitisation | No classification proposed | - |
| Respiratory sensitisation | No classification proposed | - |
| Germ cell mutagenicity | No classification proposed | - |

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

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 |
|--------------------|--------------|--|------------|---------------|
| Isobutane | LC50 QSAR | Fish | 27.98 mg/l | 96 h |
| Propane | LC50 | Fish | 27.98 mg/l | 96 h |
| Piperonyl butoxide | LC50 | Cyprinodon variegatus (sheepshead minnow) | 3.94 mg/l | 96 h |

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| | | | | |
|-----------|------------------------|--------------------------------------|-------------|------|
| | flow-through test NOEC | Pimephales promelas (fathead minnow) | 0.18 mg/l | 35 d |
| Pyrethrum | LC50 | Oncorhynchus mykiss (rainbow trout) | 0.0052 mg/l | 96 h |

Toxicity to aquatic invertebrates

| Components | End point | Species | Value | Exposure time |
|--------------------|-----------------------------------|----------------------------|--------------|---------------|
| Isobutane | LC50 QSAR | Daphnid | 16.33 mg/l | 48 h |
| Propane | LC50 | Daphnid | 14.22 mg/l | 48 h |
| Piperonyl butoxide | flow-through test EC50 Calculated | Crassostrea virginica | 0.23 mg/l | 96 h |
| | flow-through test NOEC Measured | Daphnia magna | 0.03 mg/l | 21 d |
| Pyrethrum | NOEC | Daphnia magna (Water flea) | 0.00086 mg/l | 21 d |

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Toxicity to aquatic plants

| Components | End point | Species | Value | Exposure time |
|--------------------|---|---|-----------|---------------|
| Isobutane | EC50 QSAR | Green algae | 8.57 mg/l | 96 h |
| Propane | No data available | | | |
| Piperonyl butoxide | EC50 Calculated OECD Test Guideline 201 | Selenastrum capricornutum, Skeletonema costatum | 0.17 mg/l | 72 h |
| Pyrethrum | No data available | | | |

Persistence and degradability

| Component | Biodegradation | Exposure time | Summary |
|--------------------|-------------------|---------------|----------------------------|
| Isobutane | 70 % | < 10 d | Readily biodegradable. |
| Propane | 70 % | < 10 d | Readily biodegradable. |
| Piperonyl butoxide | | | Not readily biodegradable. |
| Pyrethrum | No data available | | Not readily biodegradable. |

Bioaccumulative potential

| Component | Bioconcentration factor (BCF) | Partition Coefficient n-Octanol/water (log) |
|--------------------|-------------------------------|---|
| Isobutane | 1.57 - 1.97 | 2.8 |
| Propane | No data available | 2.36 |
| Piperonyl butoxide | 91 - 380 | 4.8 |
| Pyrethrum | 471 | 5.9 |

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Mobility

| Component | End point | Value |
|--------------------|-------------------|-------|
| Isobutane | No data available | |
| Propane | No data available | |
| Piperonyl butoxide | Koc | 599 |
| Pyrethrum | Koc | 35171 |

PBT and vPvB assessment

| Component | Results |
|--------------------|--------------------------------------|
| Isobutane | Not fulfilling PBT and vPvB criteria |
| Propane | Not fulfilling PBT and vPvB criteria |
| Piperonyl butoxide | Not fulfilling PBT and vPvB criteria |
| Pyrethrum | 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 | UN 1950 AEROSOLS, Flammable, 2.1, Marine Pollutant | UN 1950 AEROSOLS, Flammable, 2.1, Marine Pollutant | UN 1950 AEROSOLS, Flammable, 2.1, Marine Pollutant |
| Transport hazard class(es) | 2.1 | 2 | 2.1 |
| Packing group | - | - | - |
| Environmental hazards | - | Marine pollutant | - |
| 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

PCPA Labeling

Read the approved PCPA label prior to using or handling the pest control product.

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. Following is the hazard information required on the pest control product label:

CAUTION:

Explosive
PRESSURIZED SPRAY

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Contains petroleum distillates.
Vomiting may cause aspiration pneumonia.
CONTENTS UNDER PRESSURE.

- 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.
- Canada Regulations** : This product has been classified in accordance with the hazard criteria of the Hazardous Products Act and Regulations.

16. OTHER INFORMATION

HMIS Ratings

| | |
|--------------|---|
| Health | 1 |
| Flammability | 4 |
| Reactivity | 0 |

NFPA Ratings

| | |
|------------|---|
| Health | 1 |
| Fire | 4 |
| Reactivity | 0 |
| Special | - |

This information is being provided in accordance with Canada's Workplace Hazard Material Information System. The information supplied is designed for workplaces where product use and frequency of exposure exceeds that established for the labeled consumer use.

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Further information

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Prepared by

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