

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



GLADE® AUTOMATIC SPRAY REFILL - RADIANT BERRIES®

Version 3.0

Print Date 09/10/2018

Revision Date 08/15/2018

SDS Number 350000028378

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Product name : GLADE® AUTOMATIC SPRAY REFILL - RADIANT BERRIES®

Recommended use : Air Freshener

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 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 1 | Extremely flammable aerosol. |
| Eye irritation | Category 2B | Causes eye irritation. |
| Gases under pressure | Compressed gas | Contains gas under pressure; may explode if heated. |

Labelling

Hazard symbols

Flame

Signal word

Danger

Hazard statements

Extremely flammable aerosol.
Causes eye irritation.

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Precautionary statements

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

Keep out of reach of children.

Read label before use.

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.

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.

Wash hands thoroughly after handling.

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

| Chemical name | CAS-No. | Weight percent |
|--|------------|----------------|
| Isobutane | 75-28-5 | 30.00 - 60.00 |
| Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics | 64742-47-8 | 10.00 - 30.00 |
| Acetone | 67-64-1 | 10.00 - 30.00 |
| Propane | 74-98-6 | 5.00 - 10.00 |

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 : 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.

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Skin contact : No special requirements

Inhalation : No special requirements.

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.
May cause skin irritation.

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 : 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.

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.

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.

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6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Remove all sources of ignition.
Wash thoroughly after handling.

- Environmental precautions** : 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.
For personal protection see section 8.
Note: Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. For more information visit www.inhalant.org.
Use only as directed.
KEEP OUT OF REACH OF CHILDREN AND PETS.
Pressurized container.
Do not pierce or burn, even after use.
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 in a dry, cool and well-ventilated place.

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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 |
| Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics | 64742-47-8 | 1,200 mg/m ³ | 152 ppm | - | SUPPLIER |
| Acetone | 67-64-1 | 2,400 mg/m ³ | 1,000 ppm | - | OSHA TWA |
| Acetone | 67-64-1 | - | 500 ppm | - | ACGIH STEL |
| Acetone | 67-64-1 | - | 250 ppm | - | ACGIH TWA |
| Propane | 74-98-6 | 1,800 mg/m ³ | 1,000 ppm | - | OSHA TWA |
| Propane | 74-98-6 | - | - | - | ACGIH TWA |

Personal protective equipment**Respiratory protection** : No special requirements.**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
- Color** : colourless
- Odour** : Fruity
- 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** : -7 °C
19.4 °F
Propellant
82 °C
179.6 °F
Method: Tag Closed Cup (TCC)
liquid
- 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** : No data available

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| | | | |
|--|---|--|---|
| Relative density | : | 0.650 g/cm ³ at 20 °C estimated | : |
| Solubility(ies) | : | partly miscible | : |
| Partition coefficient: n-octanol/water | : | Test not applicable for this product type | : |
| Auto-ignition temperature | : | not auto-flammable | : |
| 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 | : | No data available | : |
| Volatile Organic Compounds Total VOC (wt. %)* | : | 51.9 % - 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. |

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- 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.

11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity** : LD50 > 5000 mg/kg
- Acute inhalation toxicity** : LC50 > 10 mg/L
- Acute dermal toxicity** : LD50 3654 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 | - |
| Eye irritation | Category 2B | - |
| 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 |
| Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics | LC50 | Fish | > 1,028 mg/l | 96 h |
| Acetone | static test LC50 | Oncorhynchus mykiss (rainbow trout) | 6,210 mg/l | 96 h |
| Propane | LC50 | Fish | 27.98 mg/l | 96 h |

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|--|--|--|--|--|
| | | | | |
|--|--|--|--|--|

Toxicity to aquatic invertebrates

| Components | End point | Species | Value | Exposure time |
|--|---------------------|----------------------------|--------------|---------------|
| Isobutane | LC50 QSAR | Daphnid | 16.33 mg/l | 48 h |
| Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics | EC50 | Daphnid | > 3,193 mg/l | 48 h |
| Acetone | static test LC50 | Daphnia pulex (Water flea) | 8,800 mg/l | 48 h |
| | NOEC | Daphnia magna | 2,212 mg/l | 28 d |
| Propane | LC50 | Daphnid | 14.22 mg/l | 48 h |

Toxicity to aquatic plants

| Components | End point | Species | Value | Exposure time |
|--|-------------------|---|--------------|---------------|
| Isobutane | EC50 QSAR | Green algae | 8.57 mg/l | 96 h |
| Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics | EC50 | Skeletonema costatum | > 3,198 mg/l | 72 h |
| Acetone | NOEC | Microcystis aeruginosa (blue-green algae) | 530 mg/l | 8 d |
| Propane | No data available | | | |

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Persistence and degradability

| Component | Biodegradation | Exposure time | Summary |
|--|----------------|---------------|------------------------|
| Isobutane | 70 % | < 10 d | Readily biodegradable. |
| Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics | 74 % | 28 d | Readily biodegradable. |
| Acetone | 90.9 % | 28 d | Readily biodegradable. |
| Propane | 70 % | < 10 d | Readily biodegradable. |

Bioaccumulative potential

| Component | Bioconcentration factor (BCF) | Partition Coefficient n-Octanol/water (log) |
|--|-------------------------------|---|
| Isobutane | 1.57 - 1.97 | 2.8 |
| Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics | 61 - 159 | No data available |
| Acetone | 0.69 | -0.23 |
| Propane | No data available | 2.36 |

Mobility

| Component | End point | Value |
|--|-------------------|-------|
| Isobutane | No data available | |
| Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics | No data available | |
| Acetone | No data available | |
| Propane | No data available | |

PBT and vPvB assessment

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

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| | |
|---------|--------------------------------------|
| Acetone | Not fulfilling PBT and vPvB criteria |
| Propane | Not fulfilling PBT and vPvB criteria |

Other adverse effects : None known.

13. DISPOSAL CONSIDERATIONS

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 | 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

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- 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 | 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.

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

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