

## Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



# GLADE® AUTOMATIC SPRAY REFILL (RADIANT BERRIES)

Version 1.0

Print Date 01/03/2017

Revision Date 05/08/2015

SDS Number 350000028378

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product information

**Product name** : GLADE® AUTOMATIC SPRAY REFILL (RADIANT BERRIES)

**Recommended use** : Air Freshener

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

### Labelling

#### Hazard symbols

Flame

#### Signal word

Danger

#### Hazard statements

Extremely flammable aerosol.  
Causes eye irritation.

#### Precautionary statements

If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.

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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.

Do not pierce or burn, even after use.

Wash hands thoroughly after handling.

**Other hazards** : None identified

### 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](http://www.whatsinsidescjohnson.com).

### 4. 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.

**Skin contact** : No special requirements

**Inhalation** : No special requirements.

**Ingestion** : No special requirements

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## 5. FIREFIGHTING MEASURES

- |   |   |   |
|---|---|---|
| <b>Suitable extinguishing media</b>         | : | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  |
| <b>Specific hazards during firefighting</b> | : | Aerosol Product - Containers may rocket or explode in heat of fire.   |
| <b>Further information</b>                  | : | 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

- |  |   |   |
|--|---|---|
| <b>Personal precautions</b>                                  | : | Remove all sources of ignition.<br>Wash thoroughly after handling.  |
| <b>Environmental precautions</b>                             | : | Outside of normal use, avoid release to the environment.  |
| <b>Methods and materials for containment and cleaning up</b> | : | If damage occurs to aerosol can:<br>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).<br>Use only non-sparking equipment.<br>Dike large spills.<br>Clean residue from spill site. |

## 7. HANDLING AND STORAGE

- |                                      |  |
|--------------------------------------|--|
| <b>Handling</b>                      |  |
| <b>Precautions for safe handling</b> | :  |
|                                      | Avoid contact with skin, eyes and clothing.<br>For personal protection see section 8.<br>Note: Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. For more information visit <a href="http://www.inhalant.org">www.inhalant.org</a> . |

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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.  
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.  
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
Isobutane	75-28-5	-	1,000 ppm	-	ACGIH STEL
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-47-8	1,200 mg/m3	152 ppm	-	SUPPLIER
Acetone	67-64-1	2,400 mg/m3	1,000 ppm	-	OSHA TWA
Acetone	67-64-1	-	750 ppm	-	ACGIH STEL
Acetone	67-64-1	-	500 ppm	-	ACGIH TWA
Propane	74-98-6	-	1,000 ppm	-	ACGIH TWA
Propane	74-98-6	1,800 mg/m3	1,000 ppm	-	OSHA 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

<b>Form</b>	: aerosol
<b>Color</b>	: colourless
<b>Odor</b>	: Fruity
<b>Odour Threshold</b>	: Test not applicable for this product type
<b>pH</b>	: Test not applicable for this product type
<b>Melting point/freezing point</b>	: Test not applicable for this product type
<b>Initial boiling point and boiling range</b>	: Test not applicable for this product type
<b>Flash point</b>	: -7 °C 19.4 °F Propellant 82 °C 179.6 °F Method: Tag Closed Cup (TCC) liquid
<b>Evaporation rate</b>	: Test not applicable for this product type
<b>Flammability (solid, gas)</b>	: Sustains combustion
<b>Upper/lower flammability or explosive limits</b>	: Test not applicable for this product type
<b>Vapour pressure</b>	: Test not applicable for this product type

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<b>Vapour density</b>	: No data available	
<b>Relative density</b>	: 0.650 g/cm <sup>3</sup> at 20 °C	Estimated
<b>Solubility(ies)</b>	: partly miscible	
<b>Partition coefficient: n-octanol/water</b>	: Test not applicable for this product type	
<b>Auto-ignition temperature</b>	: not auto-flammable	
<b>Decomposition temperature</b>	: Test not applicable for this product type	
<b>Viscosity, dynamic</b>	: Test not applicable for this product type	
<b>Viscosity, kinematic</b>	: Test not applicable for this product type	
<b>Oxidizing properties</b>	: No data available	
<b>Volatile Organic Compounds Total VOC (wt. %)*</b>	: 51.9 %	- additional exemptions may apply *as defined by US Federal and State Consumer Product Regulations
<b>Other information</b>	: None identified	:

#### 10. STABILITY AND REACTIVITY

<b>Possibility of hazardous reactions</b>	: Stable under recommended storage conditions.
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- 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

- Emergency Overview** : Danger
- Acute oral toxicity** : LD50  
Calculated  
> 5,000 mg/kg
- Acute inhalation toxicity** : LC50  
estimated  
> 5 mg/l
- Acute dermal toxicity** : LD50  
estimated  
> 5,000 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	-



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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		-

**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	Fish	27.98 mg/l	96 h
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	LC50	Fish	> 1,028 mg/l	96 h

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Acetone	static test LC50	Oncorhynchus mykiss (rainbow trout)	6,210 mg/l	96 h
Propane	LC50	Fish	27.98 mg/l	96 h

**Toxicity to aquatic invertebrates**

Components	End point	Species	Value	Exposure time
Isobutane	LC50	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	Green alga	8.57 mg/l	96 h
Hydrocarbons, C14-C18, n-	EC50	Skeletonema costatum	3,198 mg/l	72 h

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alkanes, isoalkanes, cyclics, <2% aromatics				
Acetone	NOEC	Microcystis aeruginosa	530 mg/l	8 d
Propane	No data available			

**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	

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### 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
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

Not classified as dangerous in the meaning of transport regulations.

### Sea transport

Not classified as dangerous in the meaning of transport regulations.

### Air transport

Not classified as dangerous in the meaning of transport regulations.

## 15. REGULATORY INFORMATION

**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.

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**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.

#### 16. OTHER INFORMATION

##### HMIS Ratings

Health	2
Flammability	2
Reactivity	0

##### NFPA Ratings

Health	2
Fire	2
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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