

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**GLADE® Automatic Spray Refill Nutcracker Delight**

Version 3.0

Print Date 07/17/2018

Revision Date 07/10/2018

SDS Number 350000033159  
GEN\_SOF Number  
3000000000000021949.001

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product information**

- Product name** : GLADE® Automatic Spray Refill Nutcracker Delight
- 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.
Skin sensitisation	Category 1	May cause an allergic skin reaction.
Gases under pressure	Compressed gas	Contains gas under pressure; may explode if heated.

**Labelling**

**Hazard symbols**

- Flame
- Gas cylinder
- Exclamation mark

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**Signal word**

Danger

**Hazard statements**

- Extremely flammable aerosol.
- Contains gas under pressure; may explode if heated.
- Causes eye irritation.
- May cause an allergic skin reaction.
- May cause drowsiness or dizziness.

**Precautionary statements**

- If medical advice is needed, have product container or label at hand.
- Keep out of reach of children.
- Read label before use.
- Call a POISON CENTER/doctor if you feel unwell.
- Specific treatment (see supplemental first aid instructions on this label).
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF ON SKIN: Wash with plenty of soap and water.
- If skin irritation or rash occurs: Get medical advice/ attention.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Wash contaminated clothing before reuse.
- Store locked up.
- Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.
- Store in a well-ventilated place.
- Dispose of contents/ container to an approved incineration plant.
- 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.
- Wear protective gloves.
- Avoid breathing spray.
- Wash hands thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing should not be allowed out of the workplace.

**Other hazards** : Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No.	Weight percent
Acetone	67-64-1	30.00 - 60.00
Isobutane	75-28-5	30.00 - 60.00
Propane	74-98-6	5.00 - 10.00
Fragrance - Trade Secret	Mixture	1.00 - 5.00

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

#### 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.
- Skin contact** : Wash off with plenty of water. If skin irritation or rash occurs: Get medical advice/ attention.
- Inhalation** : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
- Ingestion** : No special requirements

#### Most important symptoms and effects, both acute and delayed

- Eyes** : May irritate eyes.
- Skin effect** : May cause allergic skin reaction.  
No adverse effects expected when used as directed.

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- Inhalation : Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.  
May cause allergic respiratory reaction.  
Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
- Ingestion : May cause irritation to mouth, throat and stomach.  
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.

**6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions** : Remove all sources of ignition.  
Wear personal protective equipment.  
Wash thoroughly after handling.
- Environmental precautions** : Outside of normal use, avoid release to the environment.
- Methods and materials** : If damage occurs to aerosol can:

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**for containment and cleaning up**

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](http://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.  
Contaminated work clothing should not be allowed out of the workplace.  
Avoid breathing vapours, mist or gas.  
Wash thoroughly after handling.  
Use only outdoors or in a well-ventilated area.

**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.  
Store locked up.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Occupational Exposure Limits**

Components	CAS-No.	mg/m3	ppm	Non-standard units	Basis
Acetone	67-64-1	2,400 mg/m3	1,000 ppm	-	OSHA TWA
Acetone	67-64-1	-	500 ppm	-	ACGIH STEL
Acetone	67-64-1	-	250 ppm	-	ACGIH TWA
Isobutane	75-28-5	-	1,000 ppm	-	ACGIH STEL
Propane	74-98-6	1,800 mg/m3	1,000 ppm	-	OSHA TWA
Propane	74-98-6	-	-	-	ACGIH TWA

**Personal protective equipment**

**Respiratory protection** : No special requirements.

**Hand protection** : Wear suitable gloves.

**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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<b>Form</b>	: aerosol
<b>Color</b>	: colourless
<b>Odour</b>	: Woody sweet spicy
<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 94 °C 201.2 °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
<b>Vapour density</b>	: Test not applicable for this product type

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<b>Relative density</b>	:	0.650 g/cm3 at 20 °Cestimated	:
<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>	:	Test not applicable for this product type	:
<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>Reactivity</b>	:	No dangerous reaction known under conditions of normal use.
<b>Chemical stability</b>	:	Stable under recommended storage conditions.



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- Possibility of hazardous reactions** : Stable under normal conditions.
- 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 3642 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	Category 1	-

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

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Propane	LC50	Fish	27.98 mg/l	96 h
Fragrance - Trade Secret	No data available			
Acetone	static test LC50	Oncorhynchus mykiss (rainbow trout)	6,210 mg/l	96 h
Isobutane	LC50 QSAR	Fish	27.98 mg/l	96 h
Propane	LC50	Fish	27.98 mg/l	96 h
Alpha-Methylcinnamaldehyde	flow-through test LC50	Pimephales promelas (fathead minnow)	1.2 mg/l	96 h

**Toxicity to aquatic invertebrates**

Components	End point	Species	Value	Exposure time
Acetone	static test LC50	Daphnia pulex (Water flea)	8,800 mg/l	48 h
	NOEC	Daphnia magna	2,212 mg/l	28 d
Isobutane	LC50 QSAR	Daphnid	16.33 mg/l	48 h
Propane	LC50	Daphnid	14.22 mg/l	48 h

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Fragrance - Trade Secret	No data available			
Acetone	static test LC50	Daphnia pulex (Water flea)	8,800 mg/l	48 h
	NOEC	Daphnia magna	2,212 mg/l	28 d
Isobutane	LC50 QSAR	Daphnid	16.33 mg/l	48 h
Propane	LC50	Daphnid	14.22 mg/l	48 h
Alpha-Methylcinnamaldehyde	static test EC50	Daphnia magna (Water flea)	9.9 mg/l	48 h

**Toxicity to aquatic plants**

Components	End point	Species	Value	Exposure time
Acetone	NOEC	Microcystis aeruginosa (blue-green algae)	530 mg/l	8 d
Isobutane	EC50 QSAR	Green algae	8.57 mg/l	96 h
Propane	No data available			
Fragrance - Trade Secret	No data available			
Acetone	NOEC	Microcystis aeruginosa	530 mg/l	8 d

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		(blue-green algae)		
Isobutane	EC50 QSAR	Green algae	8.57 mg/l	96 h
Propane	No data available			
Alpha-Methylcinnamaldehyde	EC50	Desmodesmus subspicatus (green algae)	14.8 mg/l	72 h

**Persistence and degradability**

Component	Biodegradation	Exposure time	Summary
Acetone	90.9 %	28 d	Readily biodegradable.
Isobutane	70 %	< 10 d	Readily biodegradable.
Propane	70 %	< 10 d	Readily biodegradable.
Fragrance - Trade Secret	No data available		
Acetone	90.9 %	28 d	Readily biodegradable.
Isobutane	70 %	< 10 d	Readily biodegradable.
Propane	70 %	< 10 d	Readily biodegradable.
Alpha-Methylcinnamaldehyde	97 %	28 d	Readily biodegradable.

**Bioaccumulative potential**

Component	Bioconcentration factor (BCF)	Partition Coefficient n- Octanol/water (log)
Acetone	0.69	-0.23
Isobutane	1.57 - 1.97	2.8
Propane	No data available	2.36
Fragrance - Trade Secret	No data available	No data available
Acetone	0.69	-0.23
Isobutane	1.57 - 1.97	2.8

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Propane	No data available	2.36
Alpha-Methylcinnamaldehyde	16.89 Calculated	2.37

**Mobility**

Component	End point	Value
Acetone	No data available	
Isobutane	No data available	
Propane	No data available	
Fragrance - Trade Secret	No data available	
Acetone	No data available	
Isobutane	No data available	
Propane	No data available	
Alpha-Methylcinnamaldehyde	No data available	

**PBT and vPvB assessment**

Component	Results
Acetone	Not fulfilling PBT and vPvB criteria
Isobutane	Not fulfilling PBT and vPvB criteria
Propane	Not fulfilling PBT and vPvB criteria
Fragrance - Trade Secret	Not fulfilling PBT and vPvB criteria
Acetone	Not fulfilling PBT and vPvB criteria
Isobutane	Not fulfilling PBT and vPvB criteria
Propane	Not fulfilling PBT and vPvB criteria
Alpha-Methylcinnamaldehyde	Not fulfilling PBT and vPvB criteria

**Other adverse effects** : None known.

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**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.

	<b>Land transport</b>	<b>Sea transport</b>	<b>Air transport</b>
<b>UN number</b>	1950	1950	1950
<b>UN proper shipping name</b>	AEROSOLS, Flammable	AEROSOLS, Flammable	AEROSOLS, Flammable
<b>Transport hazard class(es)</b>	2.1	2	2.1
<b>Packing group</b>	-	-	-
<b>Environmental hazards</b>	-	-	-
<b>Special precautions for user</b>	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.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Product not transported as bulk.	Product not transported as bulk.	Product not transported as bulk.

**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 is not subject to the reporting requirements under California's Proposition 65.

**16. OTHER INFORMATION**

**HMIS Ratings**

<b>Health</b>	2
<b>Flammability</b>	4
<b>Reactivity</b>	0

**NFPA Ratings**

<b>Health</b>	2
<b>Fire</b>	4
<b>Reactivity</b>	0
<b>Special</b>	-

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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