

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**GLADE® SENSE & SPRAY® - APPLE CINNAMON**

Version 1.1

Print Date 03/04/2015

Revision Date 02/24/2015

SDS Number 350000013186

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product information**

**Product name** : **GLADE® SENSE & SPRAY® - APPLE CINNAMON**

**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.
Gases under pressure	Liquefied gas	Contains gas under pressure; may explode if heated.

**Labelling**

**Hazard symbols**

Flame  
Gas cylinder

**Signal word**

Danger

**Hazard statements**

Extremely 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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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight percent
Isobutane	75-28-5	30.00 - 60.00
Ethyl alcohol	64-17-5	30.00 - 60.00
Propane	74-98-6	10.00 - 30.00
Dipropylene glycol	25265-71-8	1.00 - 5.00
Eugenol	97-53-0	0.10 - 1.00
Coumarin	91-64-5	0.10 - 1.00
Alpha-Methylcinnamaldehyde	101-39-3	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](http://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** : Do not use a solid water stream as it may scatter and spread fire. 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

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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.

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## 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.

- 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/m3	ppm	Non-standard units	Basis
Isobutane	75-28-5	-	1,000 ppm	-	ACGIH STEL
Ethyl alcohol	64-17-5	1,900 mg/m3	1,000 ppm	-	OSHA TWA
Ethyl alcohol	64-17-5	-	1,000 ppm	-	ACGIH STEL
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.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- Form** : aerosol  
compressed liquefied gas
- Color** : colourless
- Odor** : characteristic

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**Odour Threshold** : No data available

**pH** : Not applicable

**Melting point/freezing point** : Not applicable

**Initial boiling point and boiling range** : No data available

**Flash point** : -7 °C  
19.4 °F  
Propellant

**Evaporation rate** :

**Flammability (solid, gas)** : Sustains combustion

**Upper/lower flammability or explosive limits** : No data available

**Vapour pressure** : No data available

**Vapour density** : No data available

**Relative density** : No data available

**Solubility(ies)** : negligible

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

**Auto-ignition temperature** : No data available

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- Decomposition temperature** : No data available
  
- Viscosity, dynamic** : No data available
  
- Viscosity, kinematic** : No data available
  
- Oxidizing properties** : No data available
  
- Volatile Organic Compounds Total VOC (wt. %)\*** : 88.2 % - additional exemptions may apply  
\*as defined by US Federal and State Consumer Product Regulations
  
- Other information** : None identified :

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**10. STABILITY AND REACTIVITY**

- 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.

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**11. TOXICOLOGICAL INFORMATION**

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

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> 2 mg/l

**Acute dermal toxicity** : LD50  
estimated  
> 2,000 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	-
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.

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**Toxicity to fish**

Components	End point	Species	Value	Exposure time
Isobutane	LC50	Fish	27.98 mg/l	96 h
Ethyl alcohol	flow-through test LC50	Pimephales promelas (fathead minnow)	14,200 mg/l	96 h
Propane	LC50	Fish	27.98 mg/l	96 h
Dipropylene glycol	static test LC50 Read-across (Analogy)	Pimephales promelas (fathead minnow)	46,500 mg/l	96 h
Eugenol	semi-static test LC50	Danio rerio (zebra fish)	13 mg/l	96 h
Coumarin	LC50	Fish	1.324 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
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				<b>time</b>
Isobutane	LC50	Daphnid	16.33 mg/l	48 h
Ethyl alcohol	static test EC50	Daphnia magna (Water flea)	2 mg/l	48 h
	NOEC	Daphnia magna	9.6 mg/l	9 d
Propane	LC50	Daphnid	14.22 mg/l	48 h
Dipropylene glycol	static test EC50	Daphnia magna (Water flea)	> 100 mg/l	48 h
Eugenol	static test EC50	Daphnia magna (Water flea)	1.05 mg/l	48 h
Coumarin	EC50	Daphnia (water flea)	8.012 mg/l	48 h
Alpha-Methylcinnamaldehyde	static test EC50	Daphnia magna (Water flea)	9.9 mg/l	48 h

**Toxicity to aquatic plants**

<b>Components</b>	<b>End point</b>	<b>Species</b>	<b>Value</b>	<b>Exposure time</b>
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Isobutane	EC50	Green algae	8.57 mg/l	96 h
Ethyl alcohol	Static EC50	Chlorella vulgaris (Fresh water algae)	275 mg/l	72 h
Propane	No data available			
Dipropylene glycol	EC50	Desmodesmus subspicatus (green algae)	> 100 mg/l	72 h
Eugenol	static test EC50	Desmodesmus subspicatus (green algae)	24 mg/l	72 h
Coumarin	No data available			
Alpha-Methylcinnamaldehyde	EC50	Desmodesmus subspicatus (green algae)	14.8 mg/l	72 h

**Persistence and degradability**

Component	Biodegradation	Exposure time	Summary
Isobutane	70 %	< 10 d	Readily biodegradable
Ethyl alcohol	97 %	28 d	Readily biodegradable
Propane	70 %	< 10 d	Readily biodegradable
Dipropylene glycol	84.4 %	28 d	Readily biodegradable
Eugenol	82 %	28 d	Readily biodegradable
Coumarin	100 %	28 d	Readily biodegradable
Alpha-Methylcinnamaldehyde	97 %	28 d	Readily biodegradable

**Bioaccumulative potential**

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
Isobutane	1.57 - 1.97	2.8
Ethyl alcohol	3.2 estimated	-0.35 Measured
Propane	No data available	2.36

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Dipropylene glycol	0.3 - 1.4	-0.462
Eugenol	No data available	1.83
Coumarin	No data available	1.39
Alpha-Methylcinnamaldehyde	16.89 Calculated	2.37

### Mobility

Component	End point	Value
Isobutane	No data available	
Ethyl alcohol	No data available	
Propane	No data available	
Dipropylene glycol	No data available	
Eugenol	log Koc	2.2
Coumarin	No data available	
Alpha-Methylcinnamaldehyde	No data available	

### PBT and vPvB assessment

Component	Results
Isobutane	Not fulfilling PBT and vPvB criteria
Ethyl alcohol	Not fulfilling PBT and vPvB criteria
Propane	Not fulfilling PBT and vPvB criteria
Dipropylene glycol	Not fulfilling PBT and vPvB criteria
Eugenol	Not fulfilling PBT and vPvB criteria
Coumarin	Not fulfilling PBT and vPvB criteria
Alpha-Methylcinnamaldehyde	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.

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**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, 2.1	AEROSOLS, Flammable, 2.1	AEROSOLS, Flammable, 2.1
<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.

**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.

**Notification status** : All ingredients of this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).

**California Prop. 65** : This product is not subject to the reporting requirements under California's Proposition 65.

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**16. OTHER INFORMATION**

**HMIS Ratings**

<b>Health</b>	1
<b>Flammability</b>	4
<b>Reactivity</b>	0

**NFPA Ratings**

<b>Health</b>	1
<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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