

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



GLADE® SENSE & SPRAY™ CLEAN LINEN™

Version 1.1

Print Date 03/04/2015

Revision Date 02/24/2015

SDS Number 350000013185

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Product name : **GLADE® SENSE & SPRAY™ CLEAN LINEN™**

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
4-TERT-BUTYLCYCLOHEXYL ACETATE	32210-23-4	1.00 - 5.00
Benzyl acetate	140-11-4	1.00 - 5.00
1-(Octahydro-Tetramethyl-2-Naphthyl)Ethan-1-one	54464-57-2	0.10 - 1.00
Hexyl salicylate	6259-76-3	0.10 - 1.00
Alpha-isomethyl ionone	127-51-5	0.10 - 1.00
(Z)-3-HEXENYL SALICYLATE	65405-77-8	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

- 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

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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.
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.

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 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
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
Benzyl acetate	140-11-4	-	10 ppm	-	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
compressed liquefied gas
- Color** : colourless
- Odor** : characteristic
- 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** : No data available
- 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

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Solubility(ies)	: negligible	
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	: No data available	
Oxidizing properties	: No data available	
Volatile Organic Compounds Total VOC (wt. %)*	: 87.5 % - additional exemptions may apply *as defined by US Federal and State Consumer Product Regulations	
Other information	: None identified	:

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
> 2 mg/l
- Acute dermal toxicity** : LD50
estimated
> 2,000 mg/kg
No adverse effects expected when used as directed.

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	-

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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
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
4-TERT-BUTYLCYCLOHEXYL ACETATE	No data available			
Benzyl acetate	flow-through test	Oryzias latipes	4 mg/l	96 h

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	LC50 flow-through test flow-through test MATC	Oryzias latipes	1.33 mg/l	28 d
1-(Octahydro-Tetramethyl-2-Naphthyl)Ethan-1-one	static test LC50 OECD Test Guideline 203	Lepomis macrochirus (Bluegill sunfish)	1.3 mg/l	96 h
	flow-through test NOEC	Danio rerio (zebra fish)	0.16 mg/l	30 d
Hexyl salicylate	static test LC50 OECD Test Guideline 203	Danio rerio (zebra fish)	> 100 mg/l	96 h
Alpha-isomethyl ionone	static test LC50 OECD Test Guideline 203	Danio rerio (zebra fish)	1.3 mg/l	96 h
(Z)-3-HEXENYL SALICYLATE	flow-through test LC50 Read-across (Analogy)	Danio rerio (zebra fish)	3.8 mg/l	96 h

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Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
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
4-TERT-BUTYLCYCLOHEXYL ACETATE	No data available			
Benzyl acetate	semi-static test EC50	Daphnia magna (Water flea)	17 mg/l	48 h
1-(Octahydro-Tetramethyl-2-Naphthyl)Ethan-1-one	static test EC50 Measured OECD	Daphnia magna (Water flea)	1.38 mg/l	48 h

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	Test Guideline 202 flow-through test NOEC see user defined free text	Daphnia magna	0.028 mg/l	21 d
Hexyl salicylate	No data available			
Alpha-isomethyl ionone	semi-static EC50 OECD Test Guideline 202	Daphnia magna (Water flea)	1.9 mg/l	48 h
(Z)-3-HEXENYL SALICYLATE	static test EC50	Daphnia magna (Water flea)	2.7 mg/l	48 h

Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
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
4-TERT-BUTYLCYCLOHEXYL	No data			

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ACETATE	available			
Benzyl acetate	static test EC50	Desmodesmus subspicatus (green algae)	110 mg/l	72 h
1-(Octahydro-Tetramethyl-2-Naphthyl)Ethan-1-one	NOEC OECD Test Guideline 201	Desmodesmus subspicatus (green algae)	2.6 mg/l	72 h
Hexyl salicylate	NOEC	Desmodesmus subspicatus (green algae)	0.15 mg/l	72 h
Alpha-isomethyl ionone	No data available			
(Z)-3-HEXENYL SALICYLATE	static test EC50	Desmodesmus subspicatus (green algae)	0.61 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
4-TERT-BUTYLCYCLOHEXYL ACETATE	75 %	28 d	Readily biodegradable
Benzyl acetate	100 %	28 d	Readily biodegradable
1-(Octahydro-Tetramethyl-2-Naphthyl)Ethan-1-one	0 %	28 d	Not readily biodegradable.
Hexyl salicylate	No data available		
Alpha-isomethyl ionone	No data available		
(Z)-3-HEXENYL SALICYLATE	89 %	28 d	Readily biodegradable

Bioaccumulative potential

Component	Bioconcentration	Partition Coefficient n-
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	factor (BCF)	Octanol/water (log)
Isobutane	1.57 - 1.97	2.8
Ethyl alcohol	3.2 estimated	-0.35 Measured
Propane	No data available	2.36
Dipropylene glycol	0.3 - 1.4	-0.462
4-TERT-BUTYLCYCLOHEXYL ACETATE	234 - 334.6 QSAR	No data available
Benzyl acetate	8 Calculated	1.96
1-(Octahydro-Tetramethyl-2-Naphthyl)Ethan-1-one	850 Measured	5.18 - 6.86
Hexyl salicylate	No data available	No data available
Alpha-isomethyl ionone	No data available	No data available
(Z)-3-HEXENYL SALICYLATE	No data available	4.8

Mobility

Component	End point	Value
Isobutane	No data available	
Ethyl alcohol	No data available	
Propane	No data available	
Dipropylene glycol	No data available	
4-TERT-BUTYLCYCLOHEXYL ACETATE	No data available	
Benzyl acetate	Koc	250 estimated
1-(Octahydro-Tetramethyl-2-Naphthyl)Ethan-1-one	No data available	
Hexyl salicylate	Koc	3474
Alpha-isomethyl ionone	No data available	
(Z)-3-HEXENYL SALICYLATE	Koc	3.86

PBT and vPvB assessment

Component	Results
Isobutane	Not fulfilling PBT and vPvB criteria
Ethyl alcohol	Not fulfilling PBT and vPvB criteria

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Propane	Not fulfilling PBT and vPvB criteria
Dipropylene glycol	Not fulfilling PBT and vPvB criteria
Benzyl acetate	Not fulfilling PBT and vPvB criteria
1-(Octahydro-Tetramethyl-2-Naphthyl)Ethan-1-one	Not fulfilling PBT and vPvB criteria
(Z)-3-HEXENYL SALICYLATE	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, 2.1	AEROSOLS, Flammable, 2.1	AEROSOLS, Flammable, 2.1
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.

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.

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.

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 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

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