

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



GLADE® SENSE & SPRAY® - HAWAIIAN BREEZE®

Version 1.1

Print Date 03/04/2015

Revision Date 02/24/2015

SDS Number 350000013188

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

- Product name** : **GLADE® SENSE & SPRAY® - HAWAIIAN BREEZE®**
- 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	5.00 - 10.00
Benzyl alcohol	100-51-6	1.00 - 5.00
ETHYL 2,3-EPOXY-3-PHENYLBUTYRATE	77-83-8	1.00 - 5.00
Coumarin	91-64-5	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 heat of fire.
- Further information** : Fight fire from maximum distance or protected area. Cool and use caution when approaching or handling fire-exposed

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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.

- 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 : No data available

Melting point/freezing point :
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

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

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.

11. TOXICOLOGICAL INFORMATION

Emergency Overview : Danger

Acute oral toxicity : LD50
estimated
5,000 mg/kg

Acute inhalation toxicity : LC50
estimated
> 5 mg/l

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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.

Toxicity to fish

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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
Benzyl alcohol	static test LC50	Pimephales promelas (fathead minnow)	460 mg/l	96 h
ETHYL 2,3-EPOXY-3-PHENYLBUTYRATE	semi-static test LC50	Oncorhynchus mykiss (rainbow trout)	4.2 mg/l	96 h
Coumarin	LC50	Fish	1.324 mg/l	96 h

Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
Isobutane	LC50	Daphnid	16.33 mg/l	48 h

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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
Benzyl alcohol	EC50	Daphnia magna (Water flea)	230 mg/l	48 h
	NOEC	Daphnia	51 mg/l	21 d
ETHYL 2,3-EPOXY-3-PHENYLBUTYRATE	static test EC50	Daphnia magna (Water flea)	52 mg/l	48 h
Coumarin	EC50	Daphnia (water flea)	8.012 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

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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
Benzyl alcohol	static test EC50	Pseudokirchneriella subcapitata (green algae)	770 mg/l	72 h
ETHYL 2,3-EPOXY-3-PHENYLBUTYRATE	EC50 No data available		36 mg/l	96 h
Coumarin	No data available			

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
Benzyl alcohol	92 - 96 %	14 d	Readily biodegradable
ETHYL 2,3-EPOXY-3-PHENYLBUTYRATE	53 %	28 d	Not readily biodegradable.
Coumarin	100 %	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
Benzyl alcohol	1.37 estimated	1.1
ETHYL 2,3-EPOXY-3-PHENYLBUTYRATE	No data available	2.4 - 2.8
Coumarin	No data available	1.39

Mobility

Component	End point	Value
Isobutane	No data available	
Ethyl alcohol	No data available	
Propane	No data available	
Dipropylene glycol	No data available	
Benzyl alcohol	No data available	-
ETHYL 2,3-EPOXY-3-PHENYLBUTYRATE	log Koc	2.34
Coumarin	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
Benzyl alcohol	Not fulfilling PBT and vPvB criteria
ETHYL 2,3-EPOXY-3-PHENYLBUTYRATE	Not fulfilling PBT and vPvB criteria
Coumarin	Not fulfilling PBT and vPvB criteria

Other adverse effects : None known.**13. DISPOSAL CONSIDERATIONS**

Consumer may discard empty container in trash, or recycle

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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

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

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

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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