

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



GLADE® PLUGINS® SCENTED OIL (HAWAIIAN BREEZE®)

Version 2.1

Print Date 02/28/2018

Revision Date 05/17/2017

SDS Number 350000017092

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Product name : GLADE® PLUGINS® SCENTED OIL (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
Flammable liquids	Category 4	Combustible liquid.
Eye irritation	Category 2A	Causes serious eye irritation.
Skin sensitisation	Category 1A	May cause an allergic skin reaction.

Labelling

Hazard symbols

Exclamation mark

Signal word

Warning

Hazard statements

Combustible liquid.
Causes serious eye irritation.
May cause an allergic skin reaction.

Precautionary statements

If medical advice is needed, have product container or label at hand.

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



GLADE® PLUGINS® SCENTED OIL (HAWAIIAN BREEZE®)

Version 2.1

Print Date 02/28/2018

Revision Date 05/17/2017

SDS Number 350000017092

Keep out of reach of children.

Read label before use.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Specific treatment (see supplemental first aid instructions on this label).

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.

If eye irritation persists: Get medical advice/ attention.

Wash contaminated clothing before reuse.

Store in a well-ventilated place. Keep cool.

Dispose of contents/ container to an approved incineration plant.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Wear protective gloves.

Avoid breathing spray.

Wash hands thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

Other hazards : None identified

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No.	Weight percent
Fragrance - Trade Secret	Mixture	60.00 - 100.00

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 : 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 : No special requirements.

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



GLADE® PLUGINS® SCENTED OIL (HAWAIIAN BREEZE®)

Version 2.1

Print Date 02/28/2018

Revision Date 05/17/2017

SDS Number 350000017092

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** : Flammable liquid. Vapors are heavier than air and may travel to a source of ignition and flash back. Liquid run-off to sewers may create fire/explosion hazard. Do not use a solid water stream as it may scatter and spread fire. Container may melt and leak in heat of fire.
- Further information** : Cool and use caution when approaching or handling fire-exposed containers. For large quantities of flammable liquids, consider containment to prevent the spread of fire. 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.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Wear personal protective equipment.
Wash thoroughly after handling.
- Environmental precautions** : Outside of normal use, avoid release to the environment.
- Methods and materials for containment and cleaning up** : Use only non-sparking equipment.
Dike large spills.
Clean residue from spill site.

7. HANDLING AND STORAGE

Handling

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



GLADE® PLUGINS® SCENTED OIL (HAWAIIAN BREEZE®)

Version 2.1

Print Date 02/28/2018

Revision Date 05/17/2017

SDS Number 350000017092

Precautions for safe handling : Avoid contact with skin, eyes and clothing.
For personal protection see section 8.
Use only as directed.
KEEP OUT OF REACH OF CHILDREN AND PETS.
Contaminated work clothing should not be allowed out of the workplace.
Avoid breathing vapours, mist or gas.
Wash thoroughly after handling.

Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking.

Storage

Requirements for storage areas and containers : Keep container closed when not in use.
Store in a well-ventilated place. Keep cool.

Other data : Stable at normal ambient temperature and pressure.
Stable at normal ambient temperature and pressure.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Components	CAS-No.	mg/m3	ppm	Non-standard units	Basis
Benzyl acetate	140-11-4	-	10 ppm	-	ACGIH TWA

Personal protective equipment

Respiratory protection : No special requirements.

Hand protection : Wear suitable gloves.

Eye protection : Safety glasses with side-shields

Skin and body protection : No special requirements.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



GLADE® PLUGINS® SCENTED OIL (HAWAIIAN BREEZE®)

Version 2.1

Print Date 02/28/2018

Revision Date 05/17/2017

SDS Number 350000017092

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: liquid
Color	: colourless to Pale yellow
Odor	: Fruity
Odour Threshold	: Test not applicable for this product type
pH	: Test not applicable for this product type
Melting point/freezing point	: Test not applicable for this product type
Initial boiling point and boiling range	: Test not applicable for this product type
Flash point	: 69.4 °C 156.92 °F Method: Tag Closed Cup (TCC)
Evaporation rate	: Test not applicable for this product type
Flammability (solid, gas)	: Sustains combustion
Upper/lower flammability or explosive limits	: Test not applicable for this product type
Vapour pressure	: estimated 0.233 hPa at 20 °C
Vapour density	: Test not applicable for this product type

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



GLADE® PLUGINS® SCENTED OIL (HAWAIIAN BREEZE®)

Version 2.1

Print Date 02/28/2018

Revision Date 05/17/2017

SDS Number 350000017092

Relative density	: 1.0010 g/cm3 at 25 Cestimated
Solubility(ies)	: practically insoluble
Partition coefficient: n-octanol/water	: Test not applicable for this product type
Auto-ignition temperature	: not auto-flammable
Decomposition temperature	: Test not applicable for this product type
Viscosity, dynamic	: Test not applicable for this product type
Viscosity, kinematic	: Test not applicable for this product type
Oxidizing properties	: Test not applicable for this product type
Volatile Organic Compounds Total VOC (wt. %)*	: 73.2 % - 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.
Possibility of hazardous reactions	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Stable under recommended storage conditions.

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



GLADE® PLUGINS® SCENTED OIL (HAWAIIAN BREEZE®)

Version 2.1

Print Date 02/28/2018

Revision Date 05/17/2017

SDS Number 350000017092

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 : Warning

Acute oral toxicity : LD50 4281 mg/kg

Acute inhalation toxicity : LC50 > 10 mg/L

Acute dermal toxicity : LD50 > 5000 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 2A	-
Skin sensitisation	Category 1A	-
Respiratory sensitisation	No classification proposed	-
Germ cell mutagenicity	No classification proposed	-

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200

**GLADE® PLUGINS® SCENTED OIL (HAWAIIAN BREEZE®)**

Version 2.1

Print Date 02/28/2018

Revision Date 05/17/2017

SDS Number 350000017092

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
Fragrance - Trade Secret	No data available			
Benzyl acetate	flow-through test LC50	Oryzias latipes	4 mg/l	96 h
	flow-through test NOEC	Oryzias latipes	0.92 mg/l	28 d
Linalool	static test LC50	Oncorhynchus mykiss (rainbow trout)	27.8 mg/l	96 h

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200

**GLADE® PLUGINS® SCENTED OIL (HAWAIIAN BREEZE®)**

Version 2.1

Print Date 02/28/2018

Revision Date 05/17/2017

SDS Number 350000017092

HEXANOIC ACID, ETHYL ESTER				
Diethyl malonate	flow-through test LC50	Pimephales promelas (fathead minnow)	10.3 - 13 mg/l	96 h
METHANO-1H-INDEN-6-OL,-HEXAHYDRO-,PROPANOATE	flow-through test LC50 OECD Test Guideline 203	Pimephales promelas (fathead minnow)	6.7 mg/l	96 h
HEXYL ACETATE	LC50	Pimephales promelas (fathead minnow)	4.4 mg/l	96 h
4-Tert-butylcyclohexyl acetate	flow-through test LC50	Pimephales promelas (fathead minnow)	6.5 mg/l	96 h
Dimethylcyclohex-3-ene-1-carbaldehyde	No data available			
Cinnamal	LC50	Danio rerio (zebra fish)	3.9 mg/l	96 h
3-p-cumenyl-2-methylpropionaldehyde	LC50 QSAR	Fish	1.092 mg/l	96 h
Eugenol	semi-	Danio rerio (zebra fish)	13 mg/l	96 h

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200

**GLADE® PLUGINS® SCENTED OIL (HAWAIIAN BREEZE®)**

Version 2.1

Print Date 02/28/2018

Revision Date 05/17/2017

SDS Number 350000017092

	static test LC50			
d-Limonene	semi- static test LC50 OECD Test Guideline 203	Pimephales promelas (fathead minnow)	0.41 mg/l	96 h

Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
Fragrance - Trade Secret	No data available			
Benzyl acetate	semi- static test EC50	Daphnia magna (Water flea)	17 mg/l	48 h
Linalool	EC50	Daphnia magna (Water flea)	20 mg/l	48 h
HEXANOIC ACID, ETHYL ESTER	No data available			
Diethyl malonate	static test EC50	Daphnia magna (Water flea)	202.3 mg/l	48 h
METHANO-1H-INDEN-6-OL,-	Flow	Daphnia magna (Water	> 14 mg/l	48 h

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200

**GLADE® PLUGINS® SCENTED OIL (HAWAIIAN BREEZE®)**

Version 2.1

Print Date 02/28/2018

Revision Date 05/17/2017

SDS Number 350000017092

HEXAHYDRO-,PROPANOATE	through EC50 OECD Test Guideline 202	flea)		
HEXYL ACETATE	semi- static test EC50	Daphnia magna (Water flea)	9.1 mg/l	48 h
4-Tert-butylcyclohexyl acetate	static test EC50	Daphnia magna (Water flea)	5.3 mg/l	48 h
Dimethylcyclohex-3-ene-1- carbaldehyde	EC50	Daphnia (water flea)	76 mg/l	48 h
Cinnamal	EC50	Daphnia magna (Water flea)	3.86 mg/l	48 h
3-p-cumenyl-2- methylpropionaldehyde	semi- static test EC50	Daphnia magna (Water flea)	1.4 mg/l	48 h
Eugenol	static test EC50	Daphnia magna (Water flea)	1.05 mg/l	48 h
d-Limonene	static test EC50	Daphnia magna (Water flea)	0.36 mg/l	48 h
	NOEC	Daphnia magna	0.115 mg/l	16 d

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200

**GLADE® PLUGINS® SCENTED OIL (HAWAIIAN BREEZE®)**

Version 2.1

Print Date 02/28/2018

Revision Date 05/17/2017

SDS Number 350000017092

	QSAR			
--	------	--	--	--

Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
Fragrance - Trade Secret	No data available			
Benzyl acetate	static test EC50	Desmodesmus subspicatus (green algae)	110 mg/l	72 h
Linalool				
HEXANOIC ACID, ETHYL ESTER	No data available			
Diethyl malonate	static test EC50	Desmodesmus subspicatus (green algae)	508.2 mg/l	72 h
METHANO-1H-INDEN-6-OL,-HEXAHYDRO-,PROPANOATE	ErC50 OECD Test Guideline 201	Desmodesmus subspicatus (green algae)	2.5 mg/l	72 h
HEXYL ACETATE	static test EC50	Pseudokirchneriella subcapitata (green algae)	12 mg/l	72 h
4-Tert-butylcyclohexyl acetate	static test EC50	Desmodesmus subspicatus (green algae)	22 mg/l	72 h
Dimethylcyclohex-3-ene-1-carbaldehyde	No data available			
Cinnamal	Static EC50	Selenastrum capricornutum, Skeletonema costatum	6.87 mg/l	72 h
3-p-cumenyl-2-methylpropionaldehyde	static test EC50	Pseudokirchneriella subcapitata (green algae)	4.3 mg/l	72 h
Eugenol	static test EC50	Desmodesmus subspicatus (green algae)	24 mg/l	72 h
d-Limonene	static test	Pseudokirchneriella	0.05 mg/l	72 h

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200

**GLADE® PLUGINS® SCENTED OIL (HAWAIIAN BREEZE®)**

Version 2.1

Print Date 02/28/2018

Revision Date 05/17/2017

SDS Number 350000017092

	NOEC OECD Test Guideline 201	subcapitata (green algae)		
--	--	---------------------------	--	--

Persistence and degradability

Component	Biodegradation	Exposure time	Summary
Fragrance - Trade Secret	No data available		
Benzyl acetate	100 %	28 d	Readily biodegradable.
Linalool	64.2 %	28 d	Readily biodegradable.
HEXANOIC ACID, ETHYL ESTER	No data available		
Diethyl malonate	99 %	28 d	Readily biodegradable.
METHANO-1H-INDEN-6-OL,- HEXAHYDRO-,PROPANOATE	14.1 %	28 d	Not readily biodegradable.
HEXYL ACETATE	56 %	28 d	Not readily biodegradable.
4-Tert-butylcyclohexyl acetate	75 %	28 d	Readily biodegradable.
Dimethylcyclohex-3-ene-1- carbaldehyde	No data available		
Cinnamal	86 %	28 d	Readily biodegradable.
3-p-cumenyl-2- methylpropionaldehyde	65.5 %	28 d	Readily biodegradable.
Eugenol	82 %	28 d	Readily biodegradable.
d-Limonene	80 %	28 d	Readily biodegradable.

Bioaccumulative potential

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
Fragrance - Trade Secret	No data available	No data available

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200

**GLADE® PLUGINS® SCENTED OIL (HAWAIIAN BREEZE®)**

Version 2.1

Print Date 02/28/2018

Revision Date 05/17/2017

SDS Number 350000017092

Benzyl acetate	8 Calculated	1.96
Linalool	No data available	2.84 Measured
HEXANOIC ACID, ETHYL ESTER	No data available	No data available
Diethyl malonate	No data available	0.96
METHANO-1H-INDEN-6-OL,-HEXAHYDRO-,PROPANOATE	No data available	3.34
HEXYL ACETATE	No data available	3.3 Measured
4-Tert-butylcyclohexyl acetate	234 - 334.6 QSAR	4.8
Dimethylcyclohex-3-ene-1-carbaldehyde	No data available	No data available
Cinnamal	8.33 QSAR	1.83
3-p-cumenyl-2-methylpropionaldehyde	155 QSAR	4.0
Eugenol	No data available	1.83
d-Limonene	1,022 QSAR	4.38

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200

**GLADE® PLUGINS® SCENTED OIL (HAWAIIAN BREEZE®)**

Version 2.1

Print Date 02/28/2018

Revision Date 05/17/2017

SDS Number 350000017092

Mobility

Component	End point	Value
Fragrance - Trade Secret	No data available	
Benzyl acetate	Koc	250 estimated
Linalool	No data available	
HEXANOIC ACID, ETHYL ESTER	No data available	
Diethyl malonate	No data available	
METHANO-1H-INDEN-6-OL,- HEXAHYDRO-,PROPANOATE	log Koc	3.11
HEXYL ACETATE	Koc	293
4-Tert-butylcyclohexyl acetate	Koc	> 3243 - < 4603 Calculated
Dimethylcyclohex-3-ene-1- carbaldehyde	No data available	
Cinnamal	Koc	36.82 Calculated
3-p-cumenyl-2- methylpropionaldehyde	log Koc	3.05
Eugenol	log Koc	2.2
d-Limonene	Koc	6324

PBT and vPvB assessment

Component	Results
Fragrance - Trade Secret	Not fulfilling PBT and vPvB criteria
Benzyl acetate	Not fulfilling PBT and vPvB criteria
Linalool	Not fulfilling PBT and vPvB criteria
HEXANOIC ACID, ETHYL ESTER	Not fulfilling PBT and vPvB criteria
Diethyl malonate	Not fulfilling PBT and vPvB criteria
METHANO-1H-INDEN-6-OL,-	Not fulfilling PBT and vPvB criteria

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



GLADE® PLUGINS® SCENTED OIL (HAWAIIAN BREEZE®)

Version 2.1

Print Date 02/28/2018

Revision Date 05/17/2017

SDS Number 350000017092

HEXAHYDRO-,PROPANOATE	
HEXYL ACETATE	Not fulfilling PBT and vPvB criteria
4-Tert-butylcyclohexyl acetate	Not fulfilling PBT and vPvB criteria
Dimethylcyclohex-3-ene-1-carbaldehyde	Not fulfilling PBT and vPvB criteria
Cinnamal	Not fulfilling PBT and vPvB criteria
3-p-cumenyl-2-methylpropionaldehyde	Not fulfilling PBT and vPvB criteria
Eugenol	Not fulfilling PBT and vPvB criteria
d-Limonene	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

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



GLADE® PLUGINS® SCENTED OIL (HAWAIIAN BREEZE®)

Version 2.1

Print Date 02/28/2018

Revision Date 05/17/2017

SDS Number 350000017092

- 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	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

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200

**GLADE® PLUGINS® SCENTED OIL (HAWAIIAN BREEZE®)**

Version 2.1

Print Date 02/28/2018

Revision Date 05/17/2017

SDS Number 350000017092

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)
-------------	--