

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



GLADE® PLUGINS® SCENTED OIL - CASHMERE WOODS®

Version 1.1

Print Date 03/04/2015

Revision Date 02/24/2015

SDS Number 350000014032

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Product name : GLADE® PLUGINS® SCENTED OIL - CASHMERE WOODS®

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 2B	Causes eye irritation.

Labelling

Hazard statements

Combustible liquid.
Causes eye irritation.

Precautionary statements

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
In case of fire: Use .? for extinction.
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.
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.
Wash hands thoroughly after handling.

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Other hazards : None identified

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight percent
Fragrance - Trade Secret	Mixture	20.00 - 50.00

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** : 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** : 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

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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**

- 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.
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.

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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** : No special requirements.
- 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form** : liquid
- Color** : light yellow
- Odor** : Woody

- 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

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- Flash point** : 88 °C
190.4 °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** : 0.1101 hPa
at 20 °C

- Vapour density** : Test not applicable for this product type

- Relative density** : 0.9830 g/cm³ at 25 °C

- Solubility(ies)** : negligible

- 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

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- Oxidizing properties** : Test not applicable for this product type
- Volatile Organic Compounds Total VOC (wt. %)*** : 79.1 % - 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.
- 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 estimated > 5,000 mg/kg
- Acute inhalation toxicity** : LC50 estimated > 2 mg/l
- Acute dermal toxicity** : LD50 estimated > 2,000 mg/kg

GHS Properties	Classification	Routes of entry
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Acute toxicity	No classification proposed	-
Skin corrosion/irritation	No classification proposed	-
Eye irritation	Category 2B	-
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

Components	End point	Species	Value	Exposure time
Fragrance - Trade Secret	No data available			
Linalool	static test	Oncorhynchus mykiss	27.8 mg/l	96 h

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	LC50	(rainbow trout)		
Benzyl acetate	flow-through test LC50	Oryzias latipes	4 mg/l	96 h
	flow-through test MATC	Oryzias latipes	1.33 mg/l	28 d
Benzyl alcohol	static test LC50	Pimephales promelas (fathead minnow)	460 mg/l	96 h
Linalyl acetate	flow-through test LC50	Cyprinus carpio (Carp)	11 mg/l	96 h
d-Limonene	flow-through test LC50	Pimephales promelas (fathead minnow)	720 µg/l	96 h
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
Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-	static test LC50	Oncorhynchus mykiss (rainbow trout)	0.63 mg/l	96 h

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cyclododecatriene				
Coumarin	LC50	Fish	1.324 mg/l	96 h
Alpha-isomethyl ionone	static test LC50 OECD Test Guideline 203	Danio rerio (zebra fish)	1.3 mg/l	96 h
1,2,3,5,6,7-Hexahydro- 1,1,2,3,3-pentamethyl-4H- inden-4-one	semi- static test LC50	Oryzias latipes	2.12 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
2,4-DIMETHYLCYCLOHEX-3- ENE-1-CARBALDEHYDE	LC50	Oncorhynchus mykiss (rainbow trout)	7.5 mg/l	96 h
	NOEC	Oncorhynchus mykiss (rainbow trout)	5.6 mg/l	96 h

Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
Fragrance - Trade Secret	No data available			
Linalool	EC50	Daphnia magna (Water flea)	20 mg/l	48 h

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Benzyl acetate	semi-static test EC50	Daphnia magna (Water flea)	17 mg/l	48 h
Benzyl alcohol	EC50	Daphnia magna (Water flea)	230 mg/l	48 h
	NOEC	Daphnia	51 mg/l	21 d
Linalyl acetate	static test EC50	Daphnia magna (Water flea)	15 mg/l	48 h
d-Limonene	static test EC50	Daphnia magna (Water flea)	0.36 mg/l	48 h
	NOEC QSAR	Daphnia magna	0.115 mg/l	16 d
1-(Octahydro-Tetramethyl-2-Naphthyl)Ethan-1-one	static test EC50 Measured OECD Test Guideline 202	Daphnia magna (Water flea)	1.38 mg/l	48 h
	flow-through test NOEC see user defined free text	Daphnia magna	0.028 mg/l	21 d
Acetic acid, anhydride, reaction products with 1,5,10-	static test EC50	other aquatic crustacea: DM	1.82 mg/l	48 h

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trimethyl-1,5,9-cyclododecatriene				
Coumarin	EC50	Daphnia (water flea)	8.012 mg/l	48 h
Alpha-isomethyl ionone	semi-static EC50 OECD Test Guideline 202	Daphnia magna (Water flea)	1.9 mg/l	48 h
1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	static test EC50	Daphnia magna (Water flea)	1.5 mg/l	48 h
(Z)-3-HEXENYL SALICYLATE	static test EC50	Daphnia magna (Water flea)	2.7 mg/l	48 h
2,4-DIMETHYLCYCLOHEX-3-ENE-1-CARBALDEHYDE	No data available			

Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
Fragrance - Trade Secret	No data available			
Linalool	EC50	Desmodesmus subspicatus	88.3 mg/l	96 h
Benzyl acetate	static test EC50	Desmodesmus subspicatus (green algae)	110 mg/l	72 h
Benzyl alcohol	static test EC50	Pseudokirchneriella subcapitata (green algae)	770 mg/l	72 h

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Linalyl acetate	static test EC50	Desmodesmus subspicatus (green algae)	62 mg/l	72 h
d-Limonene	static test EC50 Read- across (Analogy)	Desmodesmus subspicatus (green algae)	150 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
Acetic acid, anhydride, reaction products with 1,5,10- trimethyl-1,5,9- cyclododecatriene	static test EC50	Pseudokirchneriella subcapitata (green algae)	3.6 mg/l	72 h
Coumarin	No data available			
Alpha-isomethyl ionone	No data available			
1,2,3,5,6,7-Hexahydro- 1,1,2,3,3-pentamethyl-4H- inden-4-one	static test EC50	Desmodesmus subspicatus (green algae)	10 mg/l	72 h
(Z)-3-HEXENYL SALICYLATE	static test EC50	Desmodesmus subspicatus (green algae)	0.61 mg/l	72 h
2,4-DIMETHYLCYCLOHEX-3- ENE-1-CARBALDEHYDE	EC50	Desmodesmus subspicatus (green algae)	31 mg/l	72 h

Persistence and degradability

Component	Biodegradation	Exposure time	Summary
Fragrance - Trade Secret	No data available		
Linalool	64.2 %	28 d	Readily biodegradable
Benzyl acetate	100 %	28 d	Readily biodegradable
Benzyl alcohol	92 - 96 %	14 d	Readily biodegradable
Linalyl acetate	70 - 80 %	28 d	Readily biodegradable

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d-Limonene	80 %	28 d	Readily biodegradable
1-(Octahydro-Tetramethyl-2-Naphthyl)Ethan-1-one	0 %	28 d	Not readily biodegradable.
Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene	<= 2.6 %	28 d	Not readily biodegradable.
Coumarin	100 %	28 d	Readily biodegradable
Alpha-isomethyl ionone	No data available		
1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	0 %	28 d	
(Z)-3-HEXENYL SALICYLATE	89 %	28 d	Readily biodegradable
2,4-DIMETHYLCYCLOHEX-3-ENE-1-CARBALDEHYDE	3 %	28 d	

Bioaccumulative potential

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
Fragrance - Trade Secret	No data available	No data available
Linalool	No data available	2.84
Benzyl acetate	8 Calculated	1.96
Benzyl alcohol	1.37 estimated	1.1
Linalyl acetate	173.9	3.9
d-Limonene	360.5	4.38
1-(Octahydro-Tetramethyl-2-Naphthyl)Ethan-1-one	850 Measured	5.18 - 6.86
Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene	No data available	5.3 - 5.8
Coumarin	No data available	1.39
Alpha-isomethyl ionone	No data available	No data available
1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	157	4.2
(Z)-3-HEXENYL SALICYLATE	No data available	4.8

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2,4-DIMETHYLCYCLOHEX-3-ENE-1-CARBALDEHYDE	No data available	No data available
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Mobility

Component	End point	Value
Fragrance - Trade Secret	No data available	
Linalool	No data available	
Benzyl acetate	Koc	250 estimated
Benzyl alcohol	No data available	-
Linalyl acetate	log Koc	2.71
d-Limonene	Koc	6324
1-(Octahydro-Tetramethyl-2-Naphthyl)Ethan-1-one	No data available	
Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene	log Koc	4.1
Coumarin	No data available	
Alpha-isomethyl ionone	No data available	
1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	log Koc	2.301
(Z)-3-HEXENYL SALICYLATE	Koc	3.86
2,4-DIMETHYLCYCLOHEX-3-ENE-1-CARBALDEHYDE	No data available	

PBT and vPvB assessment

Component	Results
Fragrance - Trade Secret	Not fulfilling PBT and vPvB criteria
Linalool	Not fulfilling PBT and vPvB criteria
Benzyl acetate	Not fulfilling PBT and vPvB criteria
Benzyl alcohol	Not fulfilling PBT and vPvB criteria

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Linalyl acetate	Not fulfilling PBT and vPvB criteria
d-Limonene	Not fulfilling PBT and vPvB criteria
1-(Octahydro-Tetramethyl-2-Naphthyl)Ethan-1-one	Not fulfilling PBT and vPvB criteria
Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene	Not fulfilling PBT and vPvB criteria
Coumarin	Not fulfilling PBT and vPvB criteria
1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	Not fulfilling PBT and vPvB criteria
(Z)-3-HEXENYL SALICYLATE	Not fulfilling PBT and vPvB criteria
2,4-DIMETHYLCYCLOHEX-3-ENE-1-CARBALDEHYDE	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

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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 does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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

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