

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



GLADE PLUG-INS SCENTED OIL FRESH ORANGE BLOSSOM MANGO - 2 REFILLS 1.34FO/6 US

Version 1.0

Print Date 06/23/2026

Revision Date 03/05/2025

SDS Number 350000047267

GEN_SOF Number 83673

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Product name : GLADE PLUG-INS SCENTED OIL FRESH ORANGE BLOSSOM MANGO - 2 REFILLS 1.34FO/6 US

Recommended use : Air Freshener

Manufacturer, importer, supplier : S.C. Johnson & Son, Inc.
1525 Howe Street
Racine WI 53403-2236

Telephone : +1 8005585252
Emergency telephone number : 24 Hour Medical Emergency Phone: (866)231-5406
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

Signal word

Warning

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 alcohol-resistant foam, carbon dioxide or dry sand to extinguish.

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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.

Other hazards : None identified

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No.	Weight percent
TETRAHYDRO-2-ISOBUTYL-4-METHYLPYRAN-4-OL	63500-71-0	5.00 - 10.00
Linalool	78-70-6	1.00 - 5.00
Benzyl Acetate	140-11-4	1.00 - 5.00
d-Limonene	5989-27-5	1.00 - 5.00
Orange oils	8008-57-9	1.00 - 5.00
Citronellyl acetate	150-84-5	1.00 - 5.00

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. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/ attention.

Inhalation : No special requirements.

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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.

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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.
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.

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 : Substantial amounts of mist/vapors can be controlled with local exhaust ventilation or respiratory protection.

Hand protection : Wear suitable gloves.

Eye protection : Safety glasses with side-shields

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- 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** : colourless to light yellow
- Odor** : Fruity
- Odour Threshold** : Test not applicable for this product type
- pH** : Mixture is non-polar
- Melting point/freezing point** : <-20°C
- Initial boiling point and boiling range** : 70 - 140 °C
- Flash point** : 88 °C
190.4 °F
Method: ASTM D 93
- 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

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Vapour pressure	: 0.13 hPa at 20 C	
Vapour density	: > 1	
Relative density	: 0.975 g/cm3 at 25 °C	
Solubility(ies)	: immiscible	
Partition coefficient: n-octanol/water	: Not required as the product is a mixture.	
Auto-ignition temperature	: not auto-flammable	
Decomposition temperature	: Not measured as mixture is not self-reactive	
Viscosity, dynamic	: Test not applicable for this product type	
Viscosity, kinematic	: similar to water	
Oxidizing properties	: Test not applicable for this product type	
Volatile Organic Compounds Total VOC (wt. %)*	: 76.8 % - 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

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : 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 > 5000 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

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Acute toxicity	No classification proposed	Inhalation - Vapour
Acute toxicity	No classification proposed	Inhalation - Gas
Skin 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

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Components	End point	Species	Value	Exposure time
TETRAHYDRO-2-ISOBUTYL-4-METHYLPYRAN-4-OL	static test LC50	Oncorhynchus mykiss (rainbow trout)	354 mg/l	96 h
Linalool	static test LC50 Measured	Oncorhynchus mykiss (rainbow trout)	27.8 mg/l	96 h
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
d-Limonene	semi-static test LC50 OECD Test Guideline 203	Pimephales promelas (fathead minnow)	0.41 mg/l	96 h
	semi-static test NOEC	Pimephales promelas (fathead minnow)	0.059 mg/l	8 d
Orange oils	No data available			
Citronellyl acetate	semi-static test LC50	Danio rerio (zebra fish)	6.1 mg/l	96 h

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Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
TETRAHYDRO-2-ISOBUTYL-4-METHYLPYRAN-4-OL	static test EC50	Daphnia magna (Water flea)	320 mg/l	48 h
Linalool	EC50	Daphnia magna (Water flea)	20 mg/l	48 h
Benzyl Acetate	semi-static test EC50	Daphnia magna (Water flea)	17 mg/l	48 h
d-Limonene	static test EC50	Daphnia magna (Water flea)	0.36 mg/l	48 h
	semi-static test NOEC Measured	Daphnia magna	0.08 mg/l	21 d
Orange oils	No data available			
Citronellyl acetate	semi-	Daphnia magna (Water	3.48 mg/l	48 h

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	static test EC50	flea)		
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Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
TETRAHYDRO-2-ISOBUTYL-4-METHYLPYRAN-4-OL	static test EC50	Desmodesmus subspicatus (green algae)	> 94 mg/l	72 h
Linalool	static test EC50	Desmodesmus subspicatus (green algae)	156.7 mg/l	96 h
Benzyl Acetate	static test EC50	Desmodesmus subspicatus (green algae)	110 mg/l	72 h
d-Limonene	static test NOEC OECD Test Guideline 201	Pseudokirchneriella subcapitata (green algae)	0.05 mg/l	72 h
Orange oils	No data available			
Citronellyl acetate	static test EC50	Desmodesmus subspicatus (green algae)	> 7.2 mg/l	72 h

Persistence and degradability

Component	Biodegradation	Exposure time	Summary
TETRAHYDRO-2-ISOBUTYL-4-METHYLPYRAN-4-OL	0 %	28 d	Not readily biodegradable.
Linalool	64.2 %	28 d	Readily biodegradable.
Benzyl Acetate	100 %	28 d	Readily biodegradable.

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d-Limonene	80 %	28 d	Readily biodegradable.
Orange oils	77 %	28 d	Readily biodegradable.
Citronellyl acetate	82.1 %	28 d	Readily biodegradable.

Bioaccumulative potential

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
TETRAHYDRO-2-ISOBUTYL-4-METHYLPYRAN-4-OL	12	1.65
Linalool	42	2.84 Measured
Benzyl Acetate	8 Calculated	1.96
d-Limonene	1,022 QSAR	4.38
Orange oils	No data available	No data available
Citronellyl acetate	474.4 QSAR	4.9

Mobility

Component	End point	Value
TETRAHYDRO-2-ISOBUTYL-4-METHYLPYRAN-4-OL	log Koc	1.4
Linalool	Koc	75 Measured
Benzyl Acetate	Koc	250 estimated
d-Limonene	Koc	6324
Orange oils	No data available	
Citronellyl acetate	Koc	2409

PBT and vPvB assessment

Component	Results
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TETRAHYDRO-2-ISOBUTYL-4-METHYLPYRAN-4-OL	Not fulfilling PBT and vPvB criteria
Linalool	Not fulfilling PBT and vPvB criteria
Benzyl Acetate	Not fulfilling PBT and vPvB criteria
d-Limonene	Not fulfilling PBT and vPvB criteria
Orange oils	Not fulfilling PBT and vPvB criteria
Citronellyl acetate	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

Notification status : All ingredients of this product are listed or are excluded from

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listing on the U.S. Toxic Substances Control Act (TSCA)
Chemical Substance Inventory.

California Prop. 65

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

State Right To Know

No components are subject to the Massachusetts Right to Know Act.		
Minnesota HSL	Benzyl Acetate	140-11-4
New Jersey HRTK	Benzyl Acetate	140-11-4
Pennsylvania RTKL		
	TETRAHYDRO-2-ISOBUTYL-4-METHYLPYRAN-4-OL	63500-71-0
	Linalool	78-70-6

16. OTHER INFORMATION

HMIS Ratings

Health	1
Flammability	1
Reactivity	0

NFPA Ratings

Health	1
Fire	1
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.

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Further information

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