

42109 State Route 18
Wellington, OH 44090
PHONE: 440-647-0100 FAX: 440-647-0220
<http://www.naturesgardencandles.com>
E-mail address: info@naturesgardencandles.com

Safety Data Sheet

Product: **Bergamot & Tarragon Leaves
Fragrance Oil**

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade Name: Bergamot & Tarragon Leaves Fragrance Oil

1.2 Relevant identified product use

Intended use: Compound used in customer substance/mixture/product

1.3 Details of the manufacturer/supplier of the safety data sheet

Supplier: **Natures Garden Fragrances**
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Department E-mail address: info@naturesgardencandles.com

2. Hazards Identification

2.1 Classification of the substance or mixture

This mixture has not been tested as a whole. The effects, listed below, are based on evaluation of individual components in accordance with the provisions of the regulation(s) noted below.

Classification according to GHS Regulation (EC) No 1272/2008

Flammable Liquids, Category 4	H227: Combustible liquid
Acute Toxicity Oral, Category 5	H303: May be harmful if swallowed
Aspiration Hazard, Category 1	H304: May be fatal if swallowed and enters airways
Acute Toxicity Dermal, Category 5	H313: May be harmful in contact with skin
Skin Corrosion/Irritation, Category 2	H315: Causes skin irritation
Sensitization, Skin, Category 1A	H317: May cause an allergic skin reaction
Eye Damage/Eye Irritation, Category 2A	H319: Causes serious eye irritation
Acute Toxicity Inhalation, Category 5	H333: May be harmful if inhaled
Germ Cell Mutagenicity, Category 2	H341: Suspected of causing genetic defects
Carcinogenicity, Category 2	H351: Suspected of causing cancer
Aquatic Acute Toxicity, Category 1	H400: Very Toxic to aquatic life
Aquatic Chronic Toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects

Classification EU (67/548/EEC, 199/45/EC)

N	Dangerous for the Environment R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Xi	Irritant R38 : Irritating to skin R43 : May cause sensitization by skin contact
Xn	Harmful R22 : Harmful if swallowed R40 : Limited evidence of a carcinogenic effect R65 : Harmful: may cause lung damage if swallowed

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2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal Word: Danger

Hazard statements

H227	Combustible liquid
H303	May be harmful if swallowed
H304	May be fatal if swallowed and enters airways
H313	May be harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H333	May be harmful if inhaled
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer
H400	Very Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention:

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P235	Keep cool
P264	Wash hands thoroughly after handling
P272	Contaminated work clothing should not be allowed out of the workplace
P273	Avoid release to the environment
P281	Use personal protective equipment as required

Response:

P301 + P310 + P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Do NOT induce vomiting
P302 + P352	IF ON SKIN: Wash with soap and water
P304 + P312	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes Remove contact lenses if present and easy to do. Continue rinsing
P308 + P313	IF exposed or concerned: Get medical advice/attention
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P313	Get medical advice/attention
P333 + P313	If skin irritation or a rash occurs: Get medical advice/attention
P337 + P313	If eye irritation persists: Get medical advice/attention
P362	Take off contaminated clothing and wash before reuse
P363	Wash contaminated clothing before reuse
P370 + P378	In case of fire: Use Carbon dioxide (CO ₂), Dry chemical, or Foam for extinction. Do not use a direct water jet on burning material

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P391

Collect Spillage

2.3 Other Hazards

no data available

3. Composition/Information on Ingredients

3.1 Mixtures

This product is a complex mixture of ingredients, which contains among others the following substance(s), presenting a health or environmental hazard within the meaning of the UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS):

CAS# Ingredient	EC#	Conc. Range	GHS Classification	EU Classification
120-51-4 <i>Benzyl Benzoate</i>	204-402-9	40 - 50 %	H302; H313; H400; H411	N - R51/53; Xn - R22
78-70-6 <i>Linalool</i>	201-134-4	10 - 20 %	H227; H303; H315; H319; H402	Xi - R38
64742-48-9 <i>Naphtha, petroleum, hydrotreated heavy</i>	265-150-3	5 - 10 %	H304	Xn - R65
32210-23-4 <i>4-tert-Butylcyclohexyl acetate</i>	250-954-9	5 - 10 %	H303; H317; H401	N - R51/53; Xi - R43
68647-72-3 <i>Citrus aurantium var. dulcis</i>	232-433-8	2 - 5 %	H226; H304; H315; H317; H400; H410	R10; N - R50/53; Xi - R38, R43; Xn - R65
68917-33-9 <i>Lemon oil terpenes</i>	284-515-8	2 - 5 %	H226; H304; H315; H400; H410	R10; N - R50/53; Xi - R38, R43; Xn - R65
106-24-1 <i>Geraniol</i>	203-377-1	2 - 5 %	H303; H315; H317; H318; H401	Xi - R38, R41, R43
98-55-5 <i>alpha-Terpineol</i>	202-680-6	2 - 5 %	H227; H303; H315; H319; H401	Xi - R36, R38
14901-07-6 <i>beta-Ionone</i>	238-969-9	1 - 2 %	H316; H401; H411	N - R51/53
32388-55-9 <i>Acetyl cedrene</i>	251-020-3	1 - 2 %	H316; H317; H400; H410	N - R50/53; Xi - R43
128-37-0 <i>Butylated hydroxytoluene</i>	204-881-4	1 - 2 %	H316; H400; H410	N - R50/53
103-95-7 <i>2-Methyl-3-(p-isopropylphenyl)propionaldehyde</i>	203-161-7	1 - 2 %	H227; H303; H315; H317; H401; H412	N - R51/53; Xi - R38, R43
68737-61-1 <i>Dimethyltetrahydro Benaldehyde</i>	272-113-5	1 - 2 %	H227; H303; H313; H315; H317; H319; H402; H412	R52/53; Xi - R36, R38, R43
5392-40-5 <i>Citral</i>	226-394-6	1 - 2 %	H313; H315; H317; H319; H401	Xi - R38, R43
101-86-0 <i>Hexyl cinnamaldehyde</i>	202-983-3	1 - 2 %	H303; H316; H317; H400; H411	Xi - R38, R43
106-25-2 <i>Nerol</i>	203-378-7	1 - 2 %	H303; H315; H317; H319; H402	Xi - R36, R38, R43

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CAS# Ingredient	EC#	Conc. Range	GHS Classification	EU Classification
1335-66-6 <i>IsoCycloCitral</i>	215-638-7	1 - 2 %	H227; H303; H316; H317; H319; H402; H412	R52/53; Xi - R36, R43
8016-88-4 <i>Estragon oil (Artemisia dracunculus L.)</i>	290-356-5	1 - 2 %	H227; H302; H304; H316; H341; H351; H401; H411	R66; N - R51/53; Xi - R43; Xn - R22, R40, R65, R68
101-48-4 <i>PHENYLACETALDEHYDE DIMETHYL ACETAL</i>	202-945-6	1 - 2 %	H227; H303; H316; H319	Xi - R36
104-55-2 <i>Cinnamal</i>	203-213-9	0.1 - 1.0 %	H303; H312; H315; H317; H319; H401	Xi - R38, R43; Xn - R21

See Section 16 for full text of GHS classification codes

Total Hydrocarbon Content (% w/w) = 13.37

4. First Aid Measures

4.1 Description of first aid measures

Inhalation:	Remove from exposure site to fresh air and keep at rest. Obtain medical advice.
Eye Exposure:	Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.
Skin Exposure:	Remove contaminated clothes. Wash thoroughly with water (and soap). Contact physician if symptoms persist.
Ingestion:	Rinse mouth with water and obtain medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms:	no data available
Risks:	Refer to Section 2.2 "Hazard Statements"

4.3 Indication of any immediate medical attention and special treatment needed

Treatment:	Refer to Section 2.2 "Response"
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5. Fire-Fighting measures

5.1 Extinguishing media

Suitable:	Carbon dioxide (CO ₂), Dry chemical, Foam
Unsuitable	Do not use a direct water jet on burning material

5.2 Special hazards arising from the substance or mixture

During fire fighting:	Water may be ineffective
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5.3 Advice for firefighters

Further information:	Standard procedure for chemical fires
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6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation and contact with skin and eyes. A self-contained breathing apparatus is recommended in case of a major spill.

6.2 Environmental precautions

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Keep away from drains, soil, and surface and groundwater.

6.3 Methods and materials for containment and cleaning up

Clean up spillage promptly. Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapors. Gross spillages should be contained by use of sand or inert powder and disposed of according to the local regulations.

6.4 Reference to other sections

Not Applicable

7. Handling and Storage

7.1 Precautions for safe handling

Apply according to good manufacturing and industrial hygiene practices with proper ventilation. Do not drink, eat or smoke while handling. Respect good personal hygiene.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry and ventilated area away from heat sources and protected from light in tightly closed original container. Avoid plastic and uncoated metal container. Keep air contact to a minimum.

7.3 Specific end uses

No information available

8. Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits:

Component	ACGIH	ACGIH	OSHA	OSHA
	TWA ppm	STEL ppm	TWA ppm	STEL ppm
128-37-0 <i>Butylated hydroxytoluene</i>				2

Engineering Controls: Use local exhaust as needed.

8.2 Exposure controls - Personal protective equipment

Eye protection: Tightly sealed goggles, face shield, or safety glasses with brow guards and side shields, etc. as may be appropriate for the exposure

Respiratory protection: Avoid excessive inhalation of concentrated vapors. Apply local ventilation where appropriate.

Skin protection: Avoid Skin contact. Use chemically resistant gloves as needed.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:	Conforms to Standard
Odor:	Conforms to Standard
Color:	Colorless to Pale Yellow
Viscosity:	Liquid
Freezing Point:	Not determined
Boiling Point:	Not determined
Melting Point:	Not determined
Flashpoint:	170 F (76.66 C)

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Auto flammability:	Not determined
Explosive Properties:	None Expected
Oxidizing properties:	None Expected
Vapor Pressure (mmHg@20 C):	0.152
%VOC:	17.85
Specific Gravity @ 25 C:	0.9800
Density @ 25 C:	0.9770
Refractive Index @ 20 C:	1.5115
Soluble in:	Not determined

10. Stability and Reactivity

10.1 Reactivity	None
10.2 Chemical stability	Stable
10.3 Possibility of hazardous reactions	None known
10.4 Conditions to avoid	None known
10.5 Incompatible materials	Strong oxidizing agents, strong acids, and alkalis
10.6 Hazardous decomposition products	None known

11. Toxicological Information

11.1 Toxicological Effects

Acute Toxicity Estimates (ATEs) based on the individual Ingredient Toxicity Data utilizing the "Additivity Formula"

Acute toxicity - Oral - mg/kg	(LD50: 2,105.49) May be harmful if swallowed
Acute toxicity - Dermal - mg/kg	(LD50: 3,983.87) May be harmful in contact with skin
Acute toxicity - Inhalation - mg/L/4hr	(LC50: 53.74) May be harmful if inhaled
Skin corrosion / irritation	Causes skin irritation
Serious eye damage / irritation	Causes serious eye irritation
Respiratory sensitization	Not classified - the classification criteria are not met
Skin sensitization	May cause an allergic skin reaction
Germ cell mutagenicity	Suspected of causing genetic defects
Carcinogenicity	Suspected of causing cancer
Reproductive toxicity	Not classified - the classification criteria are not met
Specific target organ toxicity - single exposure	Not classified - the classification criteria are not met
Specific target organ toxicity - repeated exposure	Not classified - the classification criteria are not met
Aspiration hazard	May be fatal if swallowed and enters airways

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12. Ecological Information

12.1 Toxicity

Acute aquatic toxicity	Very Toxic to aquatic life
Chronic aquatic toxicity	Toxic to aquatic life with long lasting effects
Toxicity Data on soil	no data available
Toxicity on other organisms	no data available

12.2 Persistence and degradability no data available

12.3 Bioaccumulative potential no data available

12.4 Mobility in soil no data available

12.5 Other adverse effects no data available

13. Disposal Conditions

13.1 Waste treatment methods

Do not allow product to reach sewage systems. Dispose of in accordance with all local and national regulations. Send to a licensed waste management company. The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container.

14. Transport Information

Regulator		Class	Pack Group	Sub Risk	UN-nr.
U.S. DOT (Non-Bulk)		Not Regulated - Not Dangerous Goods			
Chemicals NOI					
ADR/RID (International Road/Rail)					
Environmentally Hazardous Liquid, n.o.s.	Substance,	9	III		UN3082
IATA (Air Cargo)					
Environmentally Hazardous Liquid, n.o.s.	Substance,	9	III		UN3082
IMDG (Sea)					
Environmentally Hazardous Liquid, n.o.s.	Substance,	9	III		UN3082

15. Regulatory Information

Additional European Regulations:

European Union (EINECS, ELINCS or NLP): 100.07% (by Wt) of the components are listed or exempt.

Additional Asian Regulations:

Australian AICS: 100.00% (by Wt) of the ingredients on AICS or notified.

Chinese IECS: 100.00% (by Wt) of the ingredients on IECS.

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Japan ENCS:

99.66% (by Wt) of the ingredients on ENCS, fall within the 1000 kilogram per annum exemption or have been notified.

Korea KECL:

99.50% (by Wt) of the ingredients on KECL, fall within the 100 kilogram per annum exemption or have been notified.

New Zealand NZIoC:

99.60% (by Wt) of the ingredients on NZIoC.

Philippines PICCS:

100.00% (by Wt) of the ingredients on PICCS.

The Status of the following ingredient(s) is NOT known for the registration lists noted;

Lists noted within <> brackets after name

7493-57-4	231-327-9	0.1 - 1.0 %	Propyl phenethyl acetal : < KECL>
6485-40-1	229-352-5	0.1 - 1.0 %	l-Carvone : < KECL>
67633-96-9	266-797-4	0.01 - 0.1%	cis-3-Hexenyl methyl carbonate : < ENCS>
8007-35-0	232-357-5	0.1 - 1.0 %	Terpineol acetate : < NZIoC>
68966-86-9	273-453-7	0.1 - 1.0 %	Methyl 4(or 1)-isopropyl-1(or 4)-methylbicyclo[2.2.2]oct-5-ene-2-carboxylate : < ENCS, KECL>
56973-85-4	260-486-7	0.01 - 0.1%	1-(5,5-Dimethyl-1-cyclohexen-1-yl)pent-4-en-1-one : < ENCS>

16. Other Information

GHS H-Statements referred to under section 3

Total Fractional Values

(TFV) Risk

(1.44) Aspiration Hazard, Category 1

(3.00) Sensitization, Skin, Category 1A

(1.10) Germ Cell Mutagenicity, Category 2

(2.35) Aquatic Acute Toxicity, Category 1

(TFV) Risk

(3.13) Skin Corrosion/Irritation, Category 2

(4.70) Eye Damage/Eye Irritation, Category 2A

(1.10) Carcinogenicity, Category 2

(6.82) Aquatic Chronic Toxicity, Category 2

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Remarks

This safety data sheet is based on the properties of the material known to Natures Garden Fragrances™ at the time the data sheet was issued. The safety data sheet is intended to provide information for a health and safety assessment of the material and the circumstances, under which it is packaged, stored or applied in the workplace. For such a safety assessment Natures Garden Fragrances™ holds no responsibility. This document is not intended for quality assurance purposes.