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

1.1 **Product identifier**

**Trade Name:** Fresh Fallen 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

42109 State Route 18

Wellington, OH  44090

PHONE: 440-647-0100  FAX: 440-647-0220

http://www.naturesgardencandles.com

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**

- **Acute Toxicity Oral, Category 4**
  - H302: Harmful if swallowed

- **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 1B**
  - 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

- **Reproductive Toxicology, Category 2**
  - H361: Suspected of damaging fertility or the unborn child

- **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

2.2 **Label elements**

**Labeling (REGULATION (EC) No 1272/2008)**

**Hazard pictograms**
Signal Word: Warning

Hazard statements

H302 Harmful if swallowed
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
H361 Suspected of damaging fertility or the unborn child
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
P264 Wash hands thoroughly after handling
P270 Do not eat, drink or smoke when using this product
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 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth
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
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
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):
Safety Data Sheet
Product: **Fresh Fallen Leaves**
Fragrance Oil

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Ingredient</th>
<th>EC#</th>
<th>Conc. Range</th>
<th>GHS Classification</th>
<th>EU Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>120-51-4</td>
<td>Benzyl Benzoate</td>
<td>204-402-9</td>
<td>50 - 60 %</td>
<td>H302; H313; H400; H411</td>
<td>N - R51/53; Xn - R22</td>
</tr>
<tr>
<td>140-11-4</td>
<td>Benzyl acetate</td>
<td>205-399-7</td>
<td>5 - 10 %</td>
<td>H303; H316; H401; H412</td>
<td></td>
</tr>
<tr>
<td>78-70-6</td>
<td>Linalool</td>
<td>201-134-4</td>
<td>2 - 5 %</td>
<td>H227; H303; H315; H319; H402</td>
<td>Xi - R38</td>
</tr>
<tr>
<td>80-54-6</td>
<td>Butylphenyl Methylpropional</td>
<td>201-289-8</td>
<td>2 - 5 %</td>
<td>H227; H302; H315; H317; H361; H401; H411</td>
<td>N - R51/53; Xi - R38, R43; Xn - R22, R62, Repr Cat 3</td>
</tr>
<tr>
<td>93-92-5</td>
<td>methylbenzyl acetate</td>
<td>202-288-5</td>
<td>2 - 5 %</td>
<td>H227; H401</td>
<td></td>
</tr>
<tr>
<td>24851-98-7</td>
<td>Methyldihydrojasmonate</td>
<td>246-495-9</td>
<td>2 - 5 %</td>
<td>H402</td>
<td></td>
</tr>
<tr>
<td>106-22-9</td>
<td>Citronellol</td>
<td>203-375-0</td>
<td>2 - 5 %</td>
<td>H303; H313; H315; H317; H319; H401</td>
<td>N - R51/53; Xi - R38, R43</td>
</tr>
<tr>
<td>54830-99-8</td>
<td>Acetoxydihydrodicyclopentadiene</td>
<td>259-367-2</td>
<td>2 - 5 %</td>
<td>H303; H316; H402; H412</td>
<td>R52/53</td>
</tr>
<tr>
<td>6259-76-3</td>
<td>Hexyl salicylate</td>
<td>228-408-6</td>
<td>2 - 5 %</td>
<td>H315; H317; H319; H400; H410</td>
<td>N - R50/53; Xi - R38, R43</td>
</tr>
<tr>
<td>101-86-0</td>
<td>Hexyl cinnamaldehyde</td>
<td>202-983-3</td>
<td>2 - 5 %</td>
<td>H303; H316; H317; H400; H411</td>
<td>Xi - R38, R43</td>
</tr>
<tr>
<td>1222-05-5</td>
<td>Hexamethylindanopyran</td>
<td>214-946-9</td>
<td>1 - 2 %</td>
<td>H316; H400; H410</td>
<td>N - R50/53</td>
</tr>
<tr>
<td>54464-57-2</td>
<td>Tetramethyl Acetyloctaehydrophenalenes</td>
<td>259-174-3</td>
<td>1 - 2 %</td>
<td>H315; H317; H400; H410</td>
<td>N - R51/53; Xi - R38, R43</td>
</tr>
</tbody>
</table>

See Section 16 for full text of GHS classification codes

Total Hydrocarbon Content (% w/w) = 0.15

### 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”
5. Fire-Fighting measures
5.1 Extinguishing media

Suitable: Carbon dioxide (CO2), 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

5.3 Advice for firefighters

Further information: Standard procedure for chemical fires

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

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

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH TWA ppm</th>
<th>ACGIH STEL ppm</th>
<th>OSHA TWA ppm</th>
<th>OSHA STEL ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>140-11-4 Benzyl acetate</td>
<td></td>
<td></td>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>

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 Yellow Tint
- Viscosity: Liquid
- Freezing Point: Not determined
- Boiling Point: Not determined
- Melting Point: Not determined
- Flashpoint: >200 F (93.33 C)
- Auto flammability: Not determined
- Explosive Properties: None Expected
- Oxidizing properties: None Expected
- Vapor Pressure (mmHg@20 C): 0.0157
- %VOC: 5.484
- Specific Gravity @ 25 C: 1.0525
- Density @ 25 C: 1.0495
- Refractive Index @ 20 C: 1.5325
- 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: 1,872.01) Harmful if swallowed
- Acute toxicity - Dermal - mg/kg: (LD50: 3,763.85) May be harmful in contact with skin
Safety Data Sheet
Product: Fresh Fallen Leaves
Fragrance Oil

Acute toxicity - Inhalation - mg/L/4hr (LC50: 59.24) 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 Not classified - the classification criteria are not met
Carcinogenicity Not classified - the classification criteria are not met
Reproductive toxicity Suspected of damaging fertility or the unborn child
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 Not classified - the classification criteria are not met

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 Substance, Liquid, n.o.s.
IATA (Air Cargo) 9 III UN3082
Safety Data Sheet

Product: Fresh Fallen Leaves Fragrance Oil

Environmentally Hazardous Substance, Liquid, n.o.s. 9 III UN3082
IMDG (Sea)

Environmentally Hazardous Substance, Liquid, n.o.s. 9 III UN3082

15. Regulatory Information

Additional European Regulations:

European Union (EINECS, ELINCS or NLP): 100.00% (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.
Japan ENCS: 99.96% (by Wt) of the ingredients on ENCS, fall within the 1000 kilogram per annum exemption or have been notified.
Korea KECL: 99.83% (by Wt) of the ingredients on KECL, fall within the 100 kilogram per annum exemption or have been notified.
New Zealand NZIoC: 97.49% (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>
54830-99-8  259-367-2  2 - 5%  Acetoxydihydrodicyclopentadiene : < NZIoC>
13257-44-8  236-249-9  0.01 - 0.1%  2-Nonyl-1-al dimethylacetal : < ENCS, KECL>

16. Other Information

GHS H-Statements referred to under section 3

Total Fractional Values

<table>
<thead>
<tr>
<th>(TFV)</th>
<th>Risk</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1.83)</td>
<td>Skin Corrosion/Irritation, Category 2</td>
</tr>
<tr>
<td>(1.70)</td>
<td>Eye Damage/Eye Irritation, Category 2A</td>
</tr>
<tr>
<td>(2.69)</td>
<td>Aquatic Acute Toxicity, Category 1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>(TFV)</th>
<th>Risk</th>
</tr>
</thead>
<tbody>
<tr>
<td>(4.80)</td>
<td>Sensitization, Skin, Category 1B</td>
</tr>
<tr>
<td>(1.60)</td>
<td>Reproductive Toxicology, Category 2</td>
</tr>
<tr>
<td>(5.15)</td>
<td>Aquatic Chronic Toxicity, Category 2</td>
</tr>
</tbody>
</table>

Department E-mail address: info@naturesgardencandles.com

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.