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

1.1 Product identifier

Trade Name: Chocolate Chip Cookies 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 5 (H303: May be harmful if swallowed)
- Acute Toxicity Dermal, Category 5 (H313: May be harmful in contact with skin)
- Sensitization, Skin, Category 1A (H317: May cause an allergic skin reaction)
- Acute Toxicity Inhalation, Category 5 (H333: May be harmful if inhaled)
- 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
- Xn: Harmful
  - R22 : Harmful if swallowed

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal Word: Warning

Hazard statements

- H303: May be harmful if swallowed
Safety Data Sheet

Product: Chocolate Chip Cookies Fragrance Oil

H313 May be harmful in contact with skin
H317 May cause an allergic skin reaction
H333 May be harmful if inhaled
H400 Very Toxic to aquatic life
H411 Toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention:
P272 Contaminated work clothing should not be allowed out of the workplace
P273 Avoid release to the environment

Response:
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
P312 Call a POISON CENTER or doctor/physician if you feel unwell
P333 + P313 If skin irritation or a rash occurs: Get medical advice/attention
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):

<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>40 - 50 %</td>
<td>H302; H313; H400; H411</td>
<td>N - R51/53; Xn - R22</td>
</tr>
<tr>
<td>121-32-4</td>
<td>Ethyl vanillin</td>
<td>204-464-7</td>
<td>2 - 5 %</td>
<td>H303; H320; H402</td>
<td>Xi - R36</td>
</tr>
<tr>
<td>121-33-5</td>
<td>Vanillin</td>
<td>204-465-2</td>
<td>1 - 2 %</td>
<td>H303; H319</td>
<td>Xi - R36, R43; Xn - R21</td>
</tr>
<tr>
<td>4940-11-8</td>
<td>Ethyl maltol</td>
<td>225-582-5</td>
<td>1 - 2 %</td>
<td>H302</td>
<td>Xn - R22</td>
</tr>
<tr>
<td>104-55-2</td>
<td>Cinnamal</td>
<td>203-213-9</td>
<td>0.1 - 1.0 %</td>
<td>H303; H312; H315; H317; H319; H401</td>
<td>Xi - R38, R43; Xn - R21</td>
</tr>
</tbody>
</table>

See Section 16 for full text of GHS classification codes

Total Hydrocarbon Content (% w/w) = 0.78
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

Exposure Limits: Contains no substances with occupational exposure limit values
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): 0.0338
%VOC: 0.955
Specific Gravity @ 25 C: 1.0270
Density @ 25 C: 1.0240
Refractive Index @ 20 C: 1.5085
Soluble in: Not determined
Safety Data Sheet
Product: Chocolate Chip Cookies
Fragrance Oil

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 alcalis

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: 2,284.17) May be harmful if swallowed
Acute toxicity - Dermal - mg/kg (LD50: 4,850.73) May be harmful in contact with skin
Acute toxicity - Inhalation - mg/L/4hr (LC50: 398.86) May be harmful if inhaled

Skin corrosion / irritation Not classified - the classification criteria are not met
Serious eye damage / irritation Not classified - the classification criteria are not met
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 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 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

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

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: 99.99% (by Wt) of the ingredients on ENCS, fall within the 1000 kilogram per annum exemption or have been notified.
Korea KECL: 99.95% (by Wt) of the ingredients on KECL, fall within the 100 kilogram per annum exemption or have been notified.
New Zealand NZIoC: 99.99% (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

- 93-51-6 202-252-9 0.01 - 0.1% 2-Methoxy-4-methylphenol (Creosol) : < KECL>
- 14667-55-1 238-712-0 0.01 - 0.1% 2,3,5-Trimethylpyrazine : < KECL>
- 913925-07-0 236-417-1 0.01 - 0.1% 3-Ethyl-2, (5 or 6)-dimethylpyrazine : < NZIoC>
- 13925-07-0 237-694-1 0.01 - 0.1% 3-Ethyl-2,6-dimethylpyrazine : < ENCS, KECL>
### Other Information

**GHS H-Statements referred to under section 3**

<table>
<thead>
<tr>
<th>Total Fractional Values</th>
<th>Risk</th>
<th>(TFV) Risk</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1.50) Sensitization, Skin, Category 1A</td>
<td></td>
<td>(1.96) Aquatic Acute Toxicity, Category 1</td>
</tr>
<tr>
<td>(2.29) Aquatic Chronic Toxicity, Category 2</td>
<td></td>
<td></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.