1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Grapefruit Oil Natural
REACH REGISTRATION NUMBER:
TYPE OF PRODUCT: Essential Oil
CHEMICAL NAME: Citrus paradisi Macf.
CAS NUMBER: 8016-20-4
EINECS NUMBER: 289-904-6
CAS EINECS: 90045-43-5
FEMA NUMBER: 2530
INCI NAME: CITRUS GRANDIS PEEL OIL
IDENTIFICATION OF USAGE: Industrial
SUPPLIER:
BONTOUX, Inc.
21 Progress
08820 Edison, New Jersey
United States of America
Ph: 908-755-4800
Fax: 908-755-4844
24 hours emergency telephone number (CHEMTREC): 800-424-9300

2. HAZARDS IDENTIFICATIONS

CLASSIFICATION ACCORDING TO GHS REGULATION:
Physical hazard: FL 3
Health Hazards: AH 1,SCI 2,SS 1
Environmental Hazards: EH-A 1,EH-C 1

WORDS OF WARNING: DANGER
PARTICULAR RISKS:
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
PRECAUTIONARY STATEMENT

PREVENTION:
P210 Keep away from heat, sparks, open flames or hot surfaces. – No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical, ventilating, lighting, communication, equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust, fume, gas, mist, vapours, spray.
P264 Wash parts in contact thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves, protective clothing, eye protection, face protection.

RESPONSE:
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.
P311 Specific treatment.
P331 Do NOT induce vomiting.
P332+P313 If skin irritation occurs: Get medical advice.
P333+P313 If skin irritation or rash occurs: Get medical advice.
P362 Take off contaminated clothing and wash before reuse.
P363 Wash contaminated clothing before reuse.
P370+P378 In case of fire: Use CO2 foam, dry chemical for extinction.
P391 Collect spillage.

STORAGE:
P403+P235 Store in well-ventilated place. Keep cool.
P405 Store locked up.

DISPOSAL:
P501 Dispose of contents and/or container in accordance with local, regional, national and/or international regulation.

PARTICULAR MENTION:
Not available.

OTHERS:
Not available.

LIMITS OF EXPOSURE:
Not available.

3. COMPOSITION INFORMATION

<table>
<thead>
<tr>
<th>INGREDIENT CONTRIBUTING TO THE HAZARD</th>
<th>CONTENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limonène (CAS : 138-86-3)</td>
<td>~ 95 %</td>
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<td>1999/45/CE : N;XN;R10;R38;R43;R50/53;R65;S02;S24;S37;S60;S61;S62</td>
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<tr>
<td>GHS : AH 1, EH-A 1, EH-C 1, FL 3, SCI 2, SS 1</td>
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<tr>
<td>Myrcene (CAS : 123-35-3)</td>
<td>~ 2 %</td>
</tr>
<tr>
<td>1999/45/CE : XN;R10;R38;R65;S62</td>
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</tr>
<tr>
<td>GHS : AH 1, EDI 2A, FL 3, SCI 2</td>
<td></td>
</tr>
</tbody>
</table>
4. FIRST-AID MEASURES

**INGESTION**: Do not try to vomit. Rinse mouth. Consult a doctor.

**EYE CONTACT**: Wash immediately and abundantly the eyes with a good running water at low pressure. Consult an ophthalmologist.

**SKIN CONTACT**: Sprinkle abundantly with water during at least 15 minutes.

**INHALATION**: Remove victim to fresh air.

5. FIRE FIGHTING

**EXTINGUISHING MEDIA**:
- **SUITABLE**: CO2 foam, dry chemical.
- **NON SUITABLE**: Water.

**SPECIFIC METHODS OF FIRE FIGHTING**: None.

**SPECIAL EQUIPMENT FOR THE PROTECTION OF FIRE FIGHTERS**: No.

6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS**: Avoid all contact with eyes and mucous.

**ENVIRONMENTAL PRECAUTIONS**: Don't throw it in sewer nor in natural environment.

**METHODS FOR CLEANING-UP**: Recover in a tight container. Wash with plenty of water after complete elimination of the product.

7. HANDLING AND STORAGE

**HANDLING**: Avoid contact with eyes and mucous.

**STORAGE**: Keep away from humidity in a fresh place. Keep container closed after using.

**OTHER**: See Section 8.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**RESPIRATORY PROTECTION**: Assure a good ventilation of work place.

**HAND PROTECTION**: Plastic or synthetic rubber impermeable gloves.

**EYE PROTECTION**: Goggles giving complete protection to eyes. Eyewash bottle with clean water.

**SKIN AND BODY PROTECTION**: Clothes for chemical protection to avoid contact.

**INGESTION**: Do not eat, drink and smoke while using.

**INDUSTRIAL HYGIENE**: Provide an extraction or global ventilation of the work place to reduce concentrations of the steam.
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>FORM</td>
<td>Mobile liquid</td>
</tr>
<tr>
<td>COLOR</td>
<td>Colorless to intense yellow</td>
</tr>
<tr>
<td>ODOR</td>
<td>Fresh, citrusy</td>
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<tr>
<td>ODOR THRESHOLD</td>
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</tr>
<tr>
<td>pH</td>
<td>Data not found</td>
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<tr>
<td>MELTING POINT</td>
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</tr>
<tr>
<td>BOILING POINT</td>
<td>Data not found</td>
</tr>
<tr>
<td>FLASHPOINT (closed cup)</td>
<td>51 °C / 123.8 °F</td>
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<tr>
<td>EVAPORATION RATE</td>
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<tr>
<td>FLAMMABILITY</td>
<td>Data not found</td>
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<td>EXPLOSIVE LIMITS</td>
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<td>VAPOR PRESSURE</td>
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<td>SPECIFIC GRAVITY</td>
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<td>SOLUBILITY IN WATER</td>
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<td>DECOMPOSITION TEMP.</td>
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<td>OXIDIZING PROPRIETIES</td>
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10. STABILITY AND REACTIVITY

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<tr>
<td>CHEMICAL STABILITY</td>
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<tr>
<td>POSSIBILITY OF HAZARDOUS REACTION</td>
<td>None in normal conditions.</td>
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<tr>
<td>CONDITIONS TO AVOID</td>
<td>Excessive heat.</td>
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<tr>
<td>INCOMPATIBLE MATERIALS</td>
<td>Strongly oxidising and reducing agents.</td>
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<tr>
<td>HAZARDOUS DECOMPOSITION PRODUCTS</td>
<td>None in normal conditions.</td>
</tr>
<tr>
<td>OTHERS</td>
<td>None.</td>
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</table>

11. TOXICOLOGICAL INFORMATION

<table>
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<tr>
<th>Property</th>
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<tbody>
<tr>
<td>INGESTION</td>
<td>Can be noxious.</td>
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<tr>
<td>SKIN CONTACT</td>
<td>Can induce irritations.</td>
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</table>
Grapefruit Oil Natural

**EYE CONTACT:** Can induce irritations.
**INHALATION:** No specific hazard in normal use.
**ASPIRATION:** Aspiration hazard
**SPECIFIC EFFECTS:** No information available.

### 12. ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>TOXICITY</th>
<th>See Section 2</th>
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<tbody>
<tr>
<td>PERSISTENCE / DEGRADABILITY</td>
<td>No information available.</td>
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<tr>
<td>BIOACCUMULATION POTENTIAL</td>
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<td>RESULTS OF PBT AND vPvB ASSESSMENT</td>
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<td>MOBILITY IN SOIL</td>
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<td>WGK</td>
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<tr>
<td>OTHER ADVERSE EFFECTS</td>
<td>Not known.</td>
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### 13. DISPOSAL CONSIDERATION

To comply with the regulations and prefectoral orders in use. Throwing out forbidden. Packaging must be well emptied

### 14. TRANSPORT INFORMATION MEASURES

**RID / ADR**

- **CLASS:** 3
- **SUBSIDIARY RISK:**
- **UN NUMBER:** UN 1169
- **PACKING GROUP:** III
- **TUNNEL CODE:** (D/E)

**IMCO / IMDG**

- **CLASS:** 3
- **SUBSIDIARY RISK:**
- **UN NUMBER:** UN 1169
- **PACKING GROUP:** III
- **EmFS:** F-E, S-D

**OACI / IATA**

- **CLASS:** 3
- **SUBSIDIARY RISK:**
- **UN NUMBER:** UN 1169
- **PACKING GROUP:** III

BONTOUX, Inc.
21 Progress, Edison, New Jersey 08820
Ph: 908-755-4800 - Fax : 908-755-4844
15. REGULATORY INFORMATION

LABELLING ACCORDING TO GHS REGULATION:

Physical hazard : FL 3
Health Hazards : AH 1, SCI 2, SS 1
Environmental Hazards : EH-A 1, EH-C 1

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Grapefruit Oil Natural

PRECAUTIONARY STATEMENT

DISPOSAL:
P501 Dispose of contents and/or container in accordance with local, regional, national and/or international regulation.

PARTICULAR MENTION:
Not available.

OTHERS:
Not available.

LIMITS OF EXPOSURE:
Not available.

OTHER CLASSIFICATIONS:

DOT CLASSIFICATION: -

NFPA CLASSIFICATION:

NIOSH:
Not available

THRESHOLD LIMIT VALUE - TLV:
Not available

OSHA PERMISSIBLE EXPOSURE LIMIT - PEL:
Not available

IAS THE SUBSTANCE BEEN LISTED AS CARCINOGEN:
Not available

SARA 313:
Not available

16. OTHER INFORMATION

OTHER INVENTORIES

<table>
<thead>
<tr>
<th>Country</th>
<th>Nom inventaire</th>
<th>Datas</th>
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Grapefruit Oil Natural

The content and format of this safety data sheet are in accordance with EC Regulation No. 1907/2006 of the European Parliament and Council.

Respect safety measures usually applied during the production of perfumery products. This data sheet completes the technical use notice, but doesn't replace it. These information are based on our actual knowledge for the above mentioned product at the edition date of this data sheet. They are given in good faith. In any case user is not exempted to know and apply all texts which regulate this activity. He will take under his own responsibility the precautions for the utilisation of product he knows. Users should be aware of the other purposes than those for which it is concerned.