



Plant's Power Inc  
 3-2700 St. Clair Ave west  
 Toronto, Ontario, M6N 1M2  
 Contact: 1-416-766-1254

## Material Safety Data Sheet Grapefruit Oil

### Section 1: Product and Company Identification

**Product Name:** Grapefruit Oil  
**Botanical Name:** *Citrus paradisi*  
**INCI Name:** Citrus Paradisi Peel Oil  
**CAS No.:** 8016-20-4  
**FEMA:** 2530

**Contact information:**

Plant's Power Inc 3-2700 St.Clair Ave west Toronto, Ontario M6N 1M2 Contact: 1-416-766-1254 <a href="http://www.PlantPower.ca">http://www.PlantPower.ca</a> <a href="mailto:contactus@plantpower.ca">contactus@plantpower.ca</a>	24 HOUR EMERGENCY TELEPHONE NUMBER: (647)-427-4480
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### Section 2: Composition and Information on Ingredients

**CAS No.:** 8016-20-4

**Composition:** The volatile oil obtained by cold expression of the outer peel of the fruits of *Citrus paradisi*.

<b>Components</b>	
<b>Limonene 60-100%</b>	
CAS No.: 138-86-3	EC No.: 205-341-0
Classification (EC 1272/2008) Flam. Liq. 3 – H226 Skin Irritant 2 – H315	Classification (67/548/EEC) Xn; R65 Xi; R38

Skin Sens. 1 – H317 Asp. Tox. 1 = H304 Aquatic Acute 1 – H400 Aquatic Chronic 1 - H410	N; R50/53 R10, R43
<b>Myrcene 1-5%</b>	
CAS No.: 123-35-3	EC No.: 204-622-5
Classification (EC 1272/2008) Flam. Liq. 3 – H226 Asp. Tox. 1 = H304 Aquatic Chronic 3 - H412	Classification (67/548/EEC) Xn; R65 R50/53 R10

### Section 3: Hazards Identification

**Classification (1999/45):** Xn; R65, Xi; R38, R43, N; R50/53, R10

**Classification (EC 1272/2008)**

**Physical:** Flam. Liq. 3 – H226

**Health:** Skin Irrit. 2 – H315

Skin Sens. 1 – H317

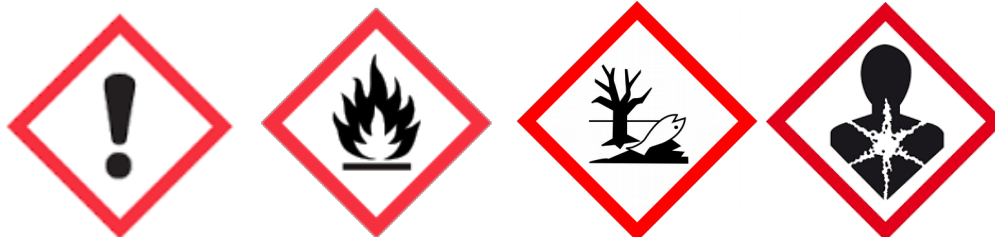
Asp. Tox. 1 = H304

**Environmental:** Aquatic Acute 1 – H400

Aquatic Chronic 1 - H410

#### Label Elements

Label in accordance with (EC) No 1272/2008



**Signal Word:** Danger

**Contains:** Limonene.

#### Hazard Statements

H226: Flammable liquid and vapour

H304: May be fatal if swallowed and enters airways

H315: Causes skin irritation

H410: Very toxic to aquatic life with long lasting effects

#### Precautionary Statements

P273: Avoid release to the environment

P280: Wear protective gloves/protective clothing/eye protection/face protection

### Supplementary Precautionary Statements

P210: Keep away from heat/sparks/open flames/hot surfaces – no smoking

P233: Keep container tightly closed

P240: Ground/bond container and receiving equipment

P241: Use explosion-proof electrical/ventilating/lighting/.../equipment

P242: Use only non-sparking tools

P243: Take precautionary measures against static discharge

P261: Avoid breathing dust fume/gas/mist/vapour/spray

P264: Wash... thoroughly after handling

P272: Contaminated work clothing should not be allowed out of the workplace

P301/310: IF SWALLOWED: immediately call a poison center or doctor/physician

P302/352: IF ON SKIN: wash with plenty of soap and water

P303/361/353: IF ON SKIN (or hair): remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P321: Specific treatment (see... on this label)

P331: Do not induce vomiting

P332/313: If skin irritation occurs: get medical advice/attention

P333/313: If skin irritation or rash occurs: get medical advice/attention

P362: Take off contaminated clothing and wash before reuse

P363: Wash contaminated clothing before reuse

P370/378: In case of fire: use... for extinction

P391: Collect spillage

P403/235: Store in a well-ventilated place. Keep cool.

P405: Store locked up

P501: Dispose of contents/containers to...

## Section 4: First Aid Measures

**General Information:** Remove affected person from source of contamination.  
Perform artificial respiration if breathing has stopped.

**Inhalation:** Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.  
Move the exposed person to fresh air at once.  
Get medical attention if any discomfort continues.

**Ingestion:** If necessary remove contaminated clothing and wash skin with soap and water.  
Get medical attention if any discomfort continues.

**Skin Contact:** If necessary remove contaminated clothing and wash skin with soap and water.  
Get medical attention if any discomfort continues.

**Eye contact:** Immediately flush with plenty of water for for up to 15 minutes.  
Remove any contact lenses and open eyes wide apart.  
Get medical attention if any discomfort continues.

## Section 5: Fire and Explosion Data

- Extinguishing media:** Fire can be extinguished using: Foam, carbon dioxide or dry powder.
- Special Fire Fighting:** Containers close to fire should be removed or cooled with water.
- Specific Hazards:** When heated and in case of fire, toxic vapours/gases may be formed.
- Protective Measures in Fire:** Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## Section 6: Accidental Release Measures

- Personal precautions:** Use protective gloves, goggles and suitable protective clothing. In case of spills, beware of slippery floors and surfaces.
- Environment precautions:** Do not discharge into drains, water courses or onto the ground.
- Spill Clean Up Methods:** Absorb with inert, damp, non-combustible material, then flush area with water. Shovel into dry containers. Cover and move the containers. Flush the area with water.

## Section 7: Handling and Storage

- Usage Precautions:** Avoid spilling, skin and eye contact. Ensure adequate ventilation of the working area. Adopt best manual handling considerations when handling, carrying and dispensing.
- Storage Precautions:** Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Protect from freezing and direct sunlight.
- Storage Class:** Unspecified storage.

## Section 8: Exposure Controls/Personal Protection

- Engineering Measures:** Provide adequate ventilation.
- Respiratory Equipment:** No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

<b>Hand protection:</b>	Protective gloves should be used if there is a risk of direct contact or splash.
<b>Eye protection:</b>	If risk of splashing, wear safety goggles or face shield.
<b>Other Protection:</b>	Wear appropriate clothing to prevent any possibility of skin contact.
<b>Hygiene Measures:</b>	No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.
<b>Skin Protection:</b>	Wear apron or protective clothing in case of splashes.

## Section 9: Physical and Chemical Properties

<b>Colour:</b>	Light orange to slightly reddish orange
<b>Appearance:</b>	Thin mobile liquid
<b>Odour:</b>	Typical grapefruit
<b>Flash point:</b>	46°C
<b>Specific gravity:</b>	0.8360 – 0.8460 at 20°C
<b>Refractive index:</b>	1.4680 to 1.4780 at 20°C
<b>Optical Rotation:</b>	+90 to +105 at 20°C
<b>Storage:</b>	In original tightly sealed containers in a cool dry place away from heat and light.
<b>Shelf Life:</b>	Recommend quality is checked after 12 months storage up to 3 years.

## Section 10: Stability and Reactivity Data

<b>Stability:</b>	Stable under normal temperature conditions.
<b>Conditions to Avoid:</b>	Avoid heat, flames and other sources of ignition.
<b>Hazardous Polymerization:</b>	Will not polymerize.
<b>Material to Avoid:</b>	Strong oxidizing substances. Strong acids. Strong alkals.
<b>Hazardous Decomp.:</b>	In case of fire, toxic gases (CO, CO <sub>2</sub> , NO <sub>x</sub> ) may be formed.

## Section 11: Toxicological Information

<b>General Information:</b>	No specific health warnings noted.
<b>Inhalation:</b>	In high concentrations, vapours may irritate throat and respiratory system and cause coughing.
<b>Ingestion:</b>	No specific health warnings noted. No harmful effects expected in amounts likely to be ingested by accident.
<b>Skin Contact:</b>	No specific health warnings noted.
<b>Eye Contact:</b>	Spray and vapour in the eyes may cause irritation and smarting.
<b>Health Warnings:</b>	No specific health warnings noted.
<b>Medical Symptoms:</b>	No specific health warnings noted, but this chemical may still have adverse health impact, either in general or on certain individuals.

**Medical Considerations:** Persons with rash are directed to skin expert for examination of allergic eczema.

## Section 12: Ecological Information

**Ecotoxicity:** Refer to section 3.

## Section 13: Disposal Considerations

**General:** Waste is suitable for incineration.

**Waste Disposal Methods:** Dispose of according to local, state and federal regulations.

## Section 14: Transport Information



**Proper Shipping Name:** EXTRACTS, AROMATIC, LIQUID.  
**UN No. Road:** 1169  
**ADR Class No.:** 3  
ADR CLASS Class 3: Flammable liquids  
**ADR Pack Group:** III  
**Tunnert Restriction Code:** (D/E)  
**Hazard No. (ADR):** 30  
**ADR Label No.:** 3  
**Hazchem Code:** 3YE

**UN No. Sea:** 1169  
**IMDG Class:** 3  
**IMDG Pack Group:** III  
**EmS:** F-E, S-D

**UN No. Air:** 1169  
**Air Class:** 3  
**Air Pack Group:** III

## Section 15: Other Regulatory Information

**Statutory Instruments**

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

### **Guidance Notes**

Workplace Exposure Limits EH40. CHIP for everyone HSG (108).

### **EU Legislation**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

## **Section 16: Other Information**

### **Disclaimer:**

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Plant's Power be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Plant's Power has been advised of the possibility of such damages.

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