Review date: June 10th, 2018



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

Material Safety Data Sheet Lime Essential Oil

Section 1: Product and Company Identification

Product Name: Lime Essential Oil Botanical Name: *Citrus aurantifolia* INCI Name: Citrus aurantifolia oil CAS #: 8008-26-2 EINECS #: 90063-52-8

FEMA #: 2631

Contact information:

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

Composition: Citrus aurantifolia oil Latin Name:	100% by weight Citrus aurantifolia
Lutin Func.	
Hazardous Components:	Limonene: CAS #: 5989-27-5, N, Xi, R10, R3, R50/53, <=60% Beta Pinene: CAS #: 127-91-3, N, Xn, R43, R50/53, R65, <=20% Gamma Terpinene: CAS #: 99-85-4, Xn, R65, <+16% Citral (Geranial and Neral): CAS #: 5392-40-5, Xi, R38, R43, <=5% Alpha Pinene: CAS #: 80-56-8, N, Xn, R43, R50/53, R65, <=4% Myrcene: CAS #: 123-35-3, Xn, R65, <=3% Para Cymene: CAS #: 99-87-6, N, Xn, %51/53, R65, <=2% Alpha Terpineol: CAS #: 98-55-5, Xi, R38, <=1%

Allergens:	Limonene (45-60%), Citral (Geranial + Neral) (<=5%), Geraniol (<=1.5%), Linalool (<=1%)
Toxicological Data:	LD50 Oral [Rat]: >5,000 mg/kg LD50 Dermal [Rabbit]: >5,000 mg/kg
CAS #: EINECS #: FEMA #:	8008-26-2 90063-52-8 2631

Section 3: Hazards Identification

Primary Hazard:	Xn: Harmful
	N: Dangerous for environment
	Xn: Harmful
	N: Dangerous for environment
	R10: Flammable
	R38: Irritating to skin
	R43: May cause sensitization by skin contact
	R50/53: Very toxic to aquatic organisms, may cause long term adverse effects in
	the aquatic environment
	R65: Harmful, may cause lung damage if swallowed R10: Flammable
	R38: Irritating to skin
	R43: May cause sensitization by skin contact
	R50/53: Very toxic to aquatic organisms, may cause long term adverse effects in
	the aquatic environment
	R65: Harmful, may cause lung damage if swallowed
Routes of Entry:	Eyes
5	Skin
	Ingestion
	Inhalation
Eye Contact:	Moderate irritation may occur.
Skin Contact:	Irritation may occur with prolonged or repeated exposure.
Ingestion:	Hazardous in case of ingestion.
Inhalation:	Avoid gross inhalation of vapors.

Section 4: First Aid Measures

Eyes:	Remove lenses if applicable. Flush with plenty of water or eye wash solution for
	15 minutes holding lids apart. Get medical attention if irritation persists or if
	lesion is visible.
Skin:	Remove contaminated clothing. Thoroughly wash the affected area with soap and
	water. Flush with large quantities of water. Cover with emollient or pure
	vegetable oil. Seek medical attention if irritation persists.
Ingestion:	Rinse mouth with water. Do not induce vomiting. Loosen tight clothing such as a
-	collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-

	mouth resuscitation. Seek medical attention or contact local poison control center
	immediately.
Inhalation:	Remove to fresh air. Seek medical attention if necessary.
Serious Inhalation:	Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is
	difficult, administer oxygen. If the victim is not breathing, perform mouth-to-
	mouth resuscitation. Seek medical attention.

Section 5: Fire and Explosion Data

Flammability: Flash Point: Flammable Limits	Flammable >46° C LEL: Not Established UEL: Not Established
Auto Ignition Temperature: Hazardous Combustion	
Products:	No information
Extinguishing Media:	Dry Chemical
5 5	Carbon Dioxide
	Note: Do not use water spray except to cool containers
Special Firefighting	
Procedures:	Wear positive pressure, self contained breathing apparatus.
	Wear protective clothing to prevent contact with skin and eyes.
	Remove containers from fire area.
	Spray extinguishing media directly into the base of the flames.
	Water is unsuitable for use on burning materials but may be used to cool containers exposed to heat.
Unusual Fire &	

Explosion Hazards: None known

Section 6: Accidental Release Measures

Personal Protection:	Chemical splash goggles should be worn.
	If in a confined area, a certified/approved vapor respirator should be used.
	Remove individuals if they do not have respiratory/dust protection.
	Wear protective clothing and chemical resistant gloves.
	Do not smoke.
Note: Suggested protective product	clothing might not be sufficient; consult a specialist BEFORE handling this

Environmental Protection:	Notify authorities if large amounts of product enters sewer.
Methods for Cleaning Up:	Remove any source of flame or sparks. Ventilate area Prevent liquid from entering the sewers. Recover spilled material with pump or absorb onto an inert, absorbent substrate and sweep up.

Wash area with soap and water.

Section 7: Handling and Storage

Handling Safe Handling:	Wear safety glasses and chemical resistant gloves.
Sale Hallullig.	
	Keep away from oxidizing agents, excessive heat, light and sources of
	ignition.
Storage	

Requirements for Storage Areas and Containers: Store in a cool, dry location, in a sealed container in a well ventilated area away from sources of ignition.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:	Provide exhaust ventilation or other engineering controls to minimize vapors. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal Protection	
Eye:	Chemical splash goggles or face shield should be worn.
Skin/Body:	Lab coats, boots and chemical resistant gloves should be worn.
Respiratory:	Use adequate ventilation or NIOSH-approved respiratory devices if vapor concentration is high due to heat.
Ventilation:	Handle in well ventilated areas. Ventilation meeting ACGIH Standards should be employed.
Other:	Evaluate need based on application. Slip proof shoes may be worn where spills may occur.
Work/Hygiene Practice:	Use good personal hygiene practices. Limit exposure to product whenever possible. Wash contaminated clothing or shoes before each use.

Section 9: Physical and Chemical Properties

Liquid
Clear
Characteristic of lime peel
0.862-0.880
1.478-1.488
+1° to +60°
>46°C
Not determined
Insoluble

Section 10: Stability and Reactivity Data

Stability:	Stable under normal conditions of use
Conditions to Avoid:	Keep away from sources of ignition, flame and heat. Avoid hot work and
	sources of ignition on or near empty containers.
Incompatibility	
(Materials to Avoid):	Strong oxidizing agents, PVC
Hazardous Decomposition:	No decomposition if use is appropriate

Hazardous Polymerization: Will Not Occur

Section 11: Toxicological Information

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LD50 Oral [Rat]: >5,000 mg/kg
LD50 Dermal [Rabbit]: >5,000 mg/kg
Not Available
Not Available
Not Available
Not Regulated
Not Regulated
Not Regulated
This substance and/or some of its components are covered by the Code of
Practice of the IFRA, the 42ndAmendment of May 16, 2007, available on
the internet website www.IFRAorg.org.
Handle this product with all precautions in light of unpredictable
synergistic effects in especially sensitive people.

Section 12: Ecological Information

materials):

Mobility:	Low mobility in soil.	
Aquatic Toxicity:	Very toxic to aquatic organisms, may cause long term effects in	
	the aquatic environment.	
Toxicity by Daphnia (CE50):	55.90 mg/l/48h	
Bioaccumulation Potential:	No impact according to known information	
Other Harmful Effects:	No other serious according to known information	
Precautions:	Avoid release into the environment (surface water, sewers,	
	groundwater and air in the middle and natural). Comply with	
	national regulations and regional legislation.	
Water Hazard Class (WGK) (5)		
according to Annex 2 of the German		
directive Hazardous Materials (No.		
Carac.: 814; 17.05.1999 organics		

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Section 13: Disposal Considerations

Waste Disposal Methods:

Do not put into sewer lines. Do not contaminate soil and water with waste. Dispose of according to local, state and federal regulations.

Section 14: Transport Information

Customs Rate Code: Transport Classification: (according to international regulations) 3301 19 20 00

Land: ADR/RID: Class 3 UN #: 1169 Packing Group: III Label Name: Liquid Aromatic Extract

Sea: IMDG: Class 3 UN #: 1169 Packing Group: III Label Name: Liquid Aromatic Extract Marine Pollutant: YES

Air: ICAO-TI and IATA-DGR: Class 3 UN #: 1169 Packing Group: III Label Name: Liquid Aromatic Extract

Section 15: Other Regulatory Information

DSCL (EEC):	Xn: Harmful
	N: Dangerous for environment
	R10: Flammable
	R38: Irritating to skin
	R43: May cause sensitization by skin contact
	R50/53: Very toxic to aquatic organisms, may cause long term
	adverse effects in the aquatic environment
	R65: Harmful, may cause lung damage if swallowed
	S24: Avoid contact with eyes
	S26: In case of contact with skin, wash area immediately with
	soap and water and cover the effected area with vegetable oil
	S37: Wear suitable gloves
	S61: Avoid release to the environment. Refer to special
	instructions/safety data sheet.
	S62: In case of ingestion, do NOT induce vomiting. Seek medical
	attention immediately.
Protective Equipment:	Gloves, Lab Coat, Vapor Respirator, Splash Goggles

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