

According to 29 CFR 1910.1200

Revision date October 2015

SECTION 1: Identification

1.1. Identification

Product Name Lime essential oil

1.2. Recommended use and restrictions on use

Recommended Use No information available

1.3. Supplier

Camden-Grey Essential Oils, Inc.
3558 Plover Ave. #6,
Naples, FL 34117
Phone 1-800-643-1439
www.camdengrey.com

1.4. Emergency telephone number

Emergency number: Chemtrec -1.800.424.9300/ 1.703.527.4887

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Flammable liquid, Category 3 (Flam. Liq. 3, H226).

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Skin sensitisation, Category 1 (Skin Sens. 1, H317).

Aspiration hazard, Category 1 (Asp. Tox. 1, H304).

Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Flammable (R 10).

This substance represents an aspiration risk due to its low viscosity: harmful (Xn, R 65).

Skin irritation (Xi, R 38).

Skin sensitization (Xi, R 43).

Aquatic environmental hazard, chronic toxicity: very toxic (N, R 50/53).

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms:



GHS07



GHS09



GHS08



GHS02

Signal Word : DANGER

Product identifiers :

601-029-007A (R)-P-MENTHA-1,8-DIENE PINENES (ALPHA OR BETA)

EC 202-794-6 G-TERPINENE

605-019-00-3 CITRAL

605-019-00-3 CITRAL

Hazard statements :

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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.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements - Prevention :

P243 Take precautionary measures against static discharge.
P273 Avoid release to the environment
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - Response :

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P331 Do NOT induce vomiting.
P391 Collect spillage.

Precautionary statements - Storage :

P403 + P235 Store in a well-ventilated place. Keep cool.

Precautionary statements - Disposal :

P501 Dispose of contents/container with local regulations

2.3. Other hazards

The substance does not satisfy the PBT or vPvP criteria in accordance with annexe XIII of the REACH regulations EC 1907/2006

SECTION 3: Composition/information on ingredients

3.1. Substance

Identification	(EC) 1272/2008	67/548/EEC	Note	%
INDEX: 601-029-00-7 CAS: 5989-27-5 EC: 227-813-5 (R)-P-MENTHA-1,8-DIE NE	GHS02, GHS07, GHS09 Wng 226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410 Aquatic Acute 1, H400	Xi,N Xi;R38-R43 N;R50/53 R10		50 <= x % < 100
INDEX: 10_0_3 PINENES (ALPHA OR BETA)	GHS09, GHS07, GHS08, GHS02 Dgr 226 Asp. Tox. 1, H304 Skin Sens. 1, H317 Aquatic Chronic 1, H410 Aquatic Acute 1, H400	Xn,N Xn;R65 Xi;R43 N;R50/53 R10		10 <= x % < 25
INDEX: 199_85_4 CAS: 99-85-4 EC: 202-794-6 G-TERPINENE	GHS02, GHS08 Dgr Asp. Tox. 1, H304	Xn Xn;R65 R10		10 <= x % < 25
INDEX: 605-019-00-3 CAS: 5392-40-5 EC: 226-394-6 CITRAL	GHS07 Wng Skin Irrit. 2, H315 Skin Sens. 1, H317	Xi Xi;R38-R43		2.5 <= x % < 10

SECTION 4: First-aid measures

As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

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In the event of splashes or contact with eyes :

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

In the event of splashes or contact with skin :

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner. Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In the event of swallowing :

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor. Keep the person exposed at rest. Do not force vomiting.

Seek medical attention immediately, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

If swallowed accidentally, do not allow to drink, do not induce vomiting and transfer to hospital immediately by ambulance. Show the label to the doctor

4.1. Most important symptoms and effects, both acute and delayed

No data available.

4.2. Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Fire-fighting measures

Flammable.

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

5.1. Extinguishing media

Keep packages near the fire cool, to prevent pressurised containers from bursting.

Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist
- water with AFFF (Aqueous Film Forming Foam) additive
- halon
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO₂)

Prevent the effluent of fire-fighting measures from entering drains or waterways.

Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

5.3. Advice for firefighters

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non fire-fighters

Avoid any contact with the skin and eyes.

For fire-fighters

Fire-fighters will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures Use drums to dispose of collected waste in compliance with current regulations (see section 13).

6.3. Reference to other sections

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Clean preferably with a detergent, do not use solvents.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Always wash hands after handling.
Remove and wash contaminated clothing before re-using.
Ensure that there is adequate ventilation, especially in confined areas.
Remove contaminated clothing and protective equipment before entering eating areas.

Fire prevention :

Handle in well-ventilated areas.
Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.
Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.
Never inhale this substance.

Prevent the accumulation of electrostatic charges with connections to earth.
Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.
Keep packages tightly closed and away from sources of heat, sparks and naked flames.
Do not use tools which may produce sparks. Do not smoke.
Prevent access by unauthorized personnel.

Recommended equipment and procedures :

For personal protection, see section 8.
Observe precautions stated on label and also industrial safety regulations.
Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the substance is used.
Never open the packages under pressure

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep the container tightly closed in a dry, well-ventilated place.
Keep away from food and drink, including those for animals.
Keep away from all sources of ignition - do not smoke.
Keep well away from all sources of ignition, heat and direct sunlight.
Avoid accumulation of electrostatic charges.
The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Packaging

Always keep in packaging made of an identical material to the original

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available.

8.2. Exposure controls

Personal protection measures, such as personal protective equipment
Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE)



Use personal protective equipment that is clean and has been properly maintained.
Store personal protective equipment in a clean place, away from the work area.
Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes
Use eye protectors designed to protect against liquid splashes
Before handling, wear safety goggles in accordance with standard EN166.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374. Gloves must be selected according to the application and duration of use at the workstation.

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Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended:

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- PVA (Polyvinyl alcohol) Recommended properties:
- Impervious gloves in accordance with standard EN374

- Body protection

Avoid skin contact.

Wear suitable protective clothing. Suitable type of protective clothing:

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General information:

Physical state:	fluid liquid.
Color:	Amber to green
Odour:	Fresh, prickly

Important health, safety and environmental information

pH:	Not relevant.
Boiling point/boiling range:	not specified.
Flash Point:	45.00 °C.
Vapour pressure (50°C):	Between 175 kPa and 300 kPa inclusive.
Density:	0.860 - 0.884
Water solubility:	Insoluble.
Viscosity:	$\nu < 7 \text{ mm}^2/\text{s}$ (40°C)
Melting point/melting range:	not specified.
Self-ignition temperature:	not specified.
Decomposition point/decomposition range:	not specified.

9.2. Other information

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

This substance is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

When exposed to high temperatures, the substance can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

10.4. Conditions to avoid

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid:

- accumulation of electrostatic charges.
- heating
- heat
- flames and hot surfaces

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

The thermal decomposition may release/form:

- carbon monoxide (CO)
- carbon dioxide (CO₂)

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Exposure to vapours from this solvent in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

Repeated or prolonged contact with the substance may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Splashes in the eyes may cause irritation and reversible damage

May cause an allergic reaction by skin contact.

Aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration.

11.1.1. Substances Acute toxicity:

G-TERPINENE (CAS: 99-85-4)

Oral route: DL50 = 3850 mg/kg

Aspiration hazard :

May be fatal if swallowed and enters airways.

Aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration.

Monograph(s) from the IARC (International Agency for Research on Cancer) :

CAS 5989-27-5 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

12.1.1. Substances

Fish toxicity: Toxic.
0,01 < NOEC <= 0,1 mg/l

Crustacean toxicity: Toxic.
0,01 < NOEC <= 0,1 mg/l

12.2. Persistence and degradability

Mixtures

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Result of the PBT and vPvB assessment

No data available.

SECTION 13: Disposal considerations

Proper waste management of the substance and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste:

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging:

Empty container completely. Keep label(s) on container. Give to a certified disposal contractor

SECTION 14: Transport information

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2011 -IMDG 2010 - ICAO/IATA 2012).

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14.1. UN number

1169

14.2. UN proper shipping name

UN1169=EXTRACTS, AROMATIC, LIQUID

14.3. Transport hazard class(es)

- Classification:



3

14.4. Packing group

III

14.5. Environmental hazards

- Environmentally hazardous material:



14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	3	F1	III	3	30	5 L	601 640EE	E1	3	D/E
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ			
	3	-	III	5 L	F-E,S-D	223 955	E1			
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
	3	-	III	355	60 L	366	220 L	A3	E1	
	3	-	III	Y344	10 L	-	-	A3	E1	

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data available.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

- Classification and labelling information included in section 2:

The following regulations have been used:

- Directive 67/548/EEC and its adaptations
- Directive 1999/45/EC and its adaptations
- Regulation EC 1272/2008 modified by regulation EC 286/2011

- Container information:

No data available.

- Particular provisions:

No data available.

- German regulations concerning the classification of hazards for water (WGK):

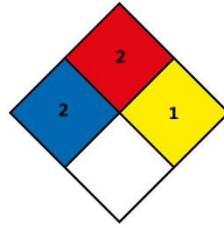
Germany: WGK 3 (VwVwS vom 27/07/2005, KBws)

- Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704):

NFPA 704, Labelling: Health=2 Inflammability=2 Instability/Reactivity=1 Specific Risk=none

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15.2. Chemical safety assessment

No data available.

SECTION 16: Other information

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the substance and not as a guarantee of the properties thereof.

CAS: 8008-26-2 EINECS : 290-010-3 LIME OIL EXPRESSED

Title for H, EUH and R indications mentioned in section 3:

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.
R 10	Flammable.
R 38	Irritating to skin.
R 43	May cause sensitization by skin contact.
R 50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 65	Harmful: may cause lung damage if swallowed.

Abbreviations :

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organization

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

GHS02 : Flame

GHS07 : Exclamation mark GHS08 : Health hazard GHS09 : Environment

DISCLAIMER: The information in this SDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness and accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond Camden-Grey Essential Oils, Inc.'s control, it is the user's responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising out of the product's improper use. No warranty expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Various government agencies (e.g. DOT, EPA, FDA) may have specific regulations concerning the transportation, handling, storage, use or disposal of this product, which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.