

LIME ESSENTIAL OIL - DISTILLED – SAFETY DATA SHEET
SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING
PRODUCT IDENTIFIER

Product Name	Lime Oil - Distilled
CAS No.	8008-26-2
Recommended use	Raw material for the manufacture of fragrances and/or flavourings

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Registered distributor company name	Pure Ingredients Ltd
Address	626A Rosebank Road, Avondale 1026
Telephone	+649 8135619
Website	www.pureingredients.co.nz
Email	compliance@pureingredients.co.nz

EMERGENCY TELEPHONE NUMBER

Association / Organisation	0800 CHEMCALL / 800 243 622 (24hr)
Emergency telephone numbers	111
Other emergency telephone numbers	0800 764 766

SECTION 2 HAZARDS IDENTIFICATION

This product is classified as a **Dangerous Good** for Transport.

Classified under the group standard “**Additives, Process Chemicals, and Raw Materials (Flammable) Group Standard 2020**”

HSNO APPROVAL NUMBER: **HSR002495**

HSNO Hazard Classification: 3.1C, 6.1E (Aspiration), 6.3A, 6.4A, 6.5B, 9.1A

Hazardous Nature: This product is classified as **HAZARDOUS** under HSNO criteria.



Pictogram:

Signal Word: **DANGER**

GHS Classification:

- Flammable liquid – Category 3
- Aspiration Hazard – Category 1
- Skin corrosion/irritation – Category 2
- Serious eye damage/eye irritation - Category 2
- Skin sensitisation – Category 1
- Aquatic toxicity (chronic) – Category 1

HAZARD STATEMENT:

H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H317	May cause an allergic skin reaction
H410	Very toxic to aquatic life with long lasting effects

PREVENTION:

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing vapours.
P264	Wash hands 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:

P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P321	Specific treatment (see first aid instruction on this label).
P370+P378	In case of fire: Use foam, dry chemical, or CO2 for extinction.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

SECTION 2 HAZARDS IDENTIFICATION

P331	Do NOT induce vomiting.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P391	Collect spillage.

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

DISPOSAL
P501 In accordance with the Consolidated EPA Hazardous Substances (Disposal) Notice 2020. Refer to Section 13 of this SDS.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS No.	Composition
Lime Oil	8008-26-2	100 %
Breakdown:		
Limonene	5989-27-5	65 – 75%
gamma terpinene	99-85-4	15 – 20%
beta pinene	127-91-3	3 – 5 %
Myrcene	123-35-3	1 - 3%

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4 FIRST AID MEASURES

NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111

Workplace Facilities Required	Eye wash and safety shower facilities are required.
If Inhaled	Remove to fresh air. Seek medical attention if symptoms persist.
In Contact with Eye	Hold eyes open, flush with water for at least 15 minutes. Seek medical attention if irritation develops.
In Contact with Skin	Immediately wash skin with plenty of water, while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. Seek medical attention if skin irritation or rash develops and persists.
If Swallowed	DO NOT INDUCE VOMITING. Rinse mouth. Give small quantities of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention. If vomiting occurs, keep head below hips to prevent aspiration to lungs.
Advice to Doctor	Treat symptomatically. May cause allergic reaction.

SECTION 5 FIREFIGHTING MEASURES

Fire/Explosion Hazard	Product is flammable.
Suitable Extinguishing Media	Use foam, carbon dioxide, dry powder. Do not use water jet.
Precautions in Connection with Fire	May give off toxic fumes in a fire. Do not inhale combustion gases.
Advice for firefighters	Wear full firefighting gear and self-contained breathing apparatus. Contain fire water. Water spray may be used to cool exposed containers.

SECTION 6 ACCIDENTAL RELEASE MEASURES

An emergency response plan is required under Part 5 of the Health and Safety at Work (Hazardous Substances) Regulations 2017 when held in quantities greater than 100L.

Precautions	Clear area of all unprotected personnel. Keep unnecessary and unprotected personnel from entering area. Avoid breathing vapours. Avoid release to the environment. Remove all sources of ignition.
Suitable Protective Equipment	Emergency responders must use personal protective equipment, including gloves, protective overalls and footwear, and safety goggles or face shield. Respiratory protection may be required where there is inadequate ventilation and a risk of vapours being present.
Spill or Leak Procedures	Avoid generating vapours. Do not flush down drains. Contain the spill and absorb with inert absorbent material, e.g. sand, earth. Place in a suitable, labelled disposal container
Waste Disposal Methods	Dispose of as per Section 13.
Emergency preparation	Ensure there is appropriate and adequate personal protective equipment, trained personnel and clean up materials for management of accidental release.

SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling	Avoid contact with skin and eyes. Do not eat, drink, or smoke when using this product. Remove contaminated clothing and wash hands and face before entering eating areas.
Storage	Keep container tightly closed in a cool, dry, well-ventilated place. Store at below 20°C, optimum temperature 2-10°C. Keep away from heat and open flames. Keep away from food and incompatible substances (see section 10). Ensure storage area has containment to prevent accidental release to the environment.
Site Storage Requirements	Site Signage will be required when quantities exceed 100L.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace Exposure Standards NZ	No workplace exposure standards have been set for this product or the ingredients.
Engineering Controls	Eyewash facilities and safety showers should be provided in the work area where there is a risk of exposure to eyes and skin. If use generates vapours, use engineering controls such as local exhaust ventilation or process enclosures to ensure workers are not exposed to levels exceeding the exposure standards.
Personal Protective Equipment	Avoid contact with the skin and eyes. Avoid inhaling vapours.
Hand protection	Wear chemically resistant protective gloves, such as nitrile rubber. Refer to Australian and New Zealand Standard AS/NZS 2161 for protective gloves.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Skin and body protection	Use protective overalls. Remove any contaminated clothing to avoid prolonged contact with the skin or prolonged exposure to vapours. Wash work clothes regularly. Refer to Australian and New Zealand Standard AS/NZS 4501 for occupational protective clothing.
Eye protection	Use safety glasses with side shields or safety goggles to protect eyes. Refer to AS/NZS 1336 for suitable eye and face protection.
Respiratory protection	Not normally required unless a high level of vapour is generated. Refer to AS/NZS 1715 and AS/NZS 1716 for suitable respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Other information	PPE selected must be impervious to the substance. Do not eat, smoke, or drink where material is handled, processed, or stored. Wash hands carefully before eating or smoking. Handle in accordance with safe industrial hygiene practices.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless to yellow liquid	Initial boiling point and boiling range	130 °C
Odour	Characteristic	Flash point	46 °C
Vapour pressure	170.9 Pa @ 25°C	Relative density	0.87
Solubility in water	Insoluble in water		

SECTION 10 STABILITY AND REACTIVITY

Stability	Stable under normal storage conditions.
Reactivity	It may catch fire on contact with oxidising mineral acids, and powerful oxidising agents.
Conditions to Avoid	Avoid extreme heat, direct sunlight. Avoid generating vapour.
Incompatibility	Keep away from strong oxidising agents.
Hazardous Decomposition	Produces toxic combustion gases during a fire.

SECTION 11 TOXICOLOGICAL INFORMATION**ACUTE EXPOSURE**

Acute toxicity	LD50 oral > 2000 mg/kg. LD50 dermal > 2000 mg/kg LC50 inhalation >11 mg/L (vapour)
Inhalation:	Not expected to be an inhalation hazard
Ingestion:	Ingestion of large amounts may cause gastrointestinal distress, nausea, and vomiting. May be fatal if swallowed and aspirated into lungs.
Skin Contact:	Skin irritant.
Eye Contact:	Causes eye irritation
Sensitiser:	Skin sensitiser. Not expected to be a respiratory sensitiser.

CHRONIC EXPOSURE

Mutagen/Carcinogen/Reproductive Toxicant	No chronic toxicity effects known.
Specific Target Organ Systemic Toxicity:	Not expected to be harmful to specific target organs or systems. Aspiration hazard.
Toxicity data is based on hazardous ingredient information.	

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity	Very ecotoxic in the aquatic environment with long-lasting effects. Not expected to be harmful to the terrestrial environment.
Persistence/degradability:	LC/EC50 <1 mg/L
Bioaccumulation	No data on product. Main ingredient Limonene is degradable.
Mobility	No data on product. Main ingredient Limonene is bio accumulative. Product is insoluble in water. Ecotoxicity data is based on hazardous ingredient information.

SECTION 13 DISPOSAL CONSIDERATION

Disposal	Recover where possible. Dispose of waste product via an approved waste disposal contractor.
Disposal of Packaging	Recycle packaging where possible. Dispose of packaging via an approved waste disposal contractor.

SECTION 14 TRANSPORT INFORMATION

Lime Oil Distilled is classified as a Dangerous Good for transport in accordance with NZS5433:2012, IMDG or IATA.



Hazchem Code: 3Y

SECTION 14 TRANSPORT INFORMATION

NZS5433:2012
 UN No: 1169
 Proper Shipping Name: Extracts, Aromatic, Liquid
 Class: 3
 Packing Group: III
 Environmental hazard: Yes
 Limited Quantity: 5L

IMDG:
 UN No: 1169
 Proper Shipping Name: Extracts, Aromatic, Liquid
 Class: 3
 Packing Group: III
 Marine Pollutant: Yes
 EmS: F-E, S-D
 Limited Quantity: 5L

IATA:
 UN No: 1169
 Proper Shipping Name: Extracts, Aromatic, Liquid
 Class: 3
 Packing Group: III
 Environmental hazard: Yes
 ERG Code: 3L

Ensure transportation methods prevent leakage from packages and collapsing loads.

SECTION 15 REGULATORY INFORMATION

Group Standard Allocation: Additives, Process Chemicals, and Raw Materials (Flammable) Group Standard 2020

HSNO Approval Code: HSR002495

Classifications: Flammable liquid – Category 3
 Aspiration hazard – Category 1
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NZ Inventory: All ingredients appear on the NZ Inventory of Chemicals

This substance triggers:	Compliance Certificate	500L (containers > 5L), 1500L (containers up to 5L)
	Certified Handler	N/A
	Emergency Response Plan	100L
	Secondary Containment	100L
	Signage	100L

This substance is not required to be Tracked. All workplace personnel handling this substance are required to be trained on the safe handling and PPE requirements for the hazards associated with this substance.

SECTION 16 OTHER INFORMATION

The information contained in this Safety Data Sheet is obtained from current and reliable sources. Pure Ingredients Ltd provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This Safety Data Sheet summarises our best current knowledge of the health and safety hazard information of the product but does not claim to be all inclusive. This document is intended only as a guide to the appropriate handling of this material.

Reference: supplier's SDS.

v01: 17/02/2021 PIL. New issue. SA257

v02: 23/02/2021 PIL. Update to New Zealand regulatory requirements and new GHS framework. Update incorrect classification info.