

Material Safety Data Sheet

**24 HOUR EMERGENCY NUMBER:
(800) 222-1222 POISON CONTROL**

SECTION 1.1 PRODUCT IDENTIFICATION

Product Name: Lime Essential Oil
CAS #: 8008-26-2
EINECS #: 290-010-3

SECTION 1.2 COMPANY INFORMATION

Company: Nature's Fusions
Address: 57 N 1380 W, Orem, UT, 84057
Telephone No: 801-872-9500

SECTION 2.1 HAZARDS CLASSIFICATION

GHS-US Classification: Flammable Liquid 3
Skin Corrosion/Irritation 2
Sensitization - Skin 1
Aspiration Toxicity 1

SECTION 2.2 HAZARDS IDENTIFICATION

Signal Word: Danger
Hazard Pictograms:



Hazard Statement: H226 Flammable liquid and vapor.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
P304 May be fatal if swallowed and enters airways.

Precautionary Statement: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P301+P310 If swallowed: Immediately call a poison center/doctor.
P321 Specific treatment (see on label.)
P331 Do NOT induce vomiting.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P362+P364 Take off contaminated clothing and wash it before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 2.3 OTHER HAZARDS IDENTIFICATION

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

Product Name	CAS #	EC #	Concentration
Lime	8008-26-2	290-010-3	100%

SECTION 4.1 NECESSARY FIRST AID MEASURES

Eye Contact:	Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open. If there is any redness, pain or visual impairment, consult an ophthalmologist.
Inhalation:	Move person into fresh air. If not breathing, give artificial respiration. Consult a physician
Ingestion:	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.
Skin Contact:	Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognized 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.

SECTION 4.2 SYMPTOMS

Eye Contact:	No additional information available.
Inhalation:	No additional information available.
Ingestion:	No additional information available.
Skin Contact:	No additional information available.

SECTION 4.3 OTHER FIRST AID MEASURES

Medical Attention/Special Treatment:	Treat symptomatically.
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SECTION 5.1 EXTINGUISHING

Suitable Extinguishing media:	Halon. Foam. ABC-Powder. BC-Powder. CO2. Dry Chemicals.
Unsuitable Extinguishing media:	Water.

SECTION 5.2 SPECIAL HAZARDS

Special Hazards Arising from Chemical:	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: CO, CO2.
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SECTION 5.3 FIRE FIGHTING MEASURES

Firefighter Instructions:	No additional information available.
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Protection during firefighting: Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

SECTION 6.1 ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid and contact with the skin and eyes. Avoid breathing vapors Remove all sources of ignition
Protective equipment:	No additional information available.
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.

SECTION 6.2 ACCIDENTAL RELEASE CLEANING MEASURES

Methods and Material for Cleaning Up:	Clean preferably with a detergent, do not use solvents. Collect with an electrically protected vacuum or by wet-brushing.
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SECTION 7.1 PRECAUTIONS FOR HANDLING

Precautions for 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.
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SECTION 7.2 CONDITIONS FOR SAFE STORAGE

Conditions for safe 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.
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SECTION 8.1 EXPOSURE AND ENGINEERING CONTROLS

PEL, ACGIH, TLV exposure limit:	Contains no substances with occupational exposure limit values
Appropriate engineering controls:	Showers. Eyewash stations. Ventilation systems.

SECTION 8.2 PERSONAL PROTECTION/EQUIPMENT

Eye/Face Protection:	Avoid contact with eyes. Use eye protectors designed to protect against liquid splashes. Before handling, wear safety goggles with protective sides accordance with standard EN166. In the event of high danger, protect the
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	face with a face shield. Prescription glasses are not considered as protection. Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapors. Provide eyewash stations in facilities where the product is handled constantly.
Hand Protection:	Wear protective gloves. The glove material has to be impermeable and resistant to the product/substance/preparation. Due to missing tests no recommendation to the glove material can be given for the product/preparation/chemical mixture.
Skin and 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.
Respiratory Protection:	Where risk assessment show air-purifying respirators are appropriate use a full-face respirator.
Environmental Exposure Control:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains

SECTION 8.3 ADDITIONAL INFORMATION

Other:	No additional information available
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SECTION 9.1 PHYSICAL PROPERTIES

Appearance:	Thin, colorless to pale yellow liquid.
Odor:	Top note with a medium aroma, this particular Lime has a dryer camphoraceous note because of the chemical constituents in younger limes.
Odor Threshold:	No data available.
Physical State:	Liquid.

SECTION 9.2 CHEMICAL PROPERTIES

pH:	No data available.
Melting Point/Freezing Point:	No data available.
Boiling Point:	182°C (360°F)
Flash Point:	45° C
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Explosive limits:	No data available.
Vapor Pressure:	Between 175 kPa and 300 kPa Inclusive @ 50° C
Vapor Density:	No data available.
Specific Gravity:	0.850 – 0.876 @ 15° C (59° F)
Solubility:	Insoluble.
Partition coefficient: (n-octanol/water)	No data available.
Autoignition Temp:	No data available.

Decomposition Temp: No data available.
Viscosity: $v < 7 \text{ mm}^2/\text{s}$ (40° C)

SECTION 10. STABILITY AND REACTIVITY

Reactivity: No additional information available.
Chemical Stability: The substance is stable under the recommended handling and storage conditions in section 7.
Hazardous Reactions: When exposed to high temperatures, the substance can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.
Incompatible Materials: Water.
Hazardous Combustion or Decomposition Products: The thermal decomposition may release/form: CO, CO₂.

SECTION 11.1 ROUTES OF EXPOSURE

Inhalation: Exposure to vapors from this solvent more than 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 be fatal if swallowed and enters airways.
Skin Contact: 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. May cause an allergic reaction by skin contact.
Eye Contact: May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days. Splashes in the eyes may cause irritation and reversible damage.
Ingestion: Aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration.

SECTION 11.2 RELATED SYMPTOMS

Inhalation: Refer to section 4.2
Skin Contact: Refer to section 4.2
Eye Contact: Refer to section 4.2
Ingestion: Refer to section 4.2

SECTION 11.3 OTHER TOXICOLOGICAL INFORMATION

Delayed/Chronic Effects: May cause allergic reactions on skin, may result in difficulty breathing.
Toxicity: No additional information available.
Carcinogenic: Not Carcinogenic.

SECTION 12.1 ECOLOGICAL INFORMATION

Eco-toxicity: Toxic to aquatic life with long lasting effects. The product must not be allowed to run into drains or waterways.

Persistence and Degradability: No additional information available.
Bio-accumulative: No additional information available.
Mobility in Soil: No additional information available.

SECTION 12.2 OTHER ECOLOGICAL INFORMATION

Other Adverse Effects: No additional information available.

SECTION 13. DISPOSAL CONSIDERATION

Waste Disposal Method: Waste management is carried out without endangering human health, without harming the environment and, 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.

Contaminated Packaging Disposal Method: Empty container completely. Keep label on container. Give to a certified disposal contractor.

SECTION 14. TRANSPORT INFORMATION

DOT Shipping (Land): Regulated. Marine Pollutant: Yes.
IATA Shipping (Air): Regulated
IMDG Shipping (Boat): Regulated
Proper Shipping Name: Extracts, Flavoring, Liquid
UN #: 1197
Hazard Class: 3
Packaging Group: III

SECTION 15. REGULATORY INFORMATION

US Federal Regulations: No additional information available.
International Regulations: No additional information available.

SECTION 16. OTHER INFORMATION

Health Hazard (HMIS): N/A
Flammability Hazard (HMIS): N/A
Physical Hazard (HMIS): N/A
Sara 313: None
California Proposition 65: This product contains trace amounts of naturally occurring Beta-Myrcene. Product is California Proposition 65 compliant.

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