

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **Lemon oil**

PRODUCT CODE: **110**

SUPPLIER: Original Swiss Aromatics, 602 Freitas Pkwy, San Rafael, CA 94903

Phone: (415) 479-9120 Fax: (415) 479-0614

Emergency Tel No: **CHEMTREC 24-HOUR EMERGENCY RESPONSE**

TOLL FREE NUMBER: (800) 424-9300

CHEMTREC should only be contacted in the event of chemical emergencies involving spill, leak, fire, exposure, or accident involving chemicals

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

DEFINITION/BOTANICAL ORIGIN: Lemon oil is obtained by the cold pressing of lemon peel

CAS No:	8008-56-8
Status:	natural
FEMA:	2625
Additives:	none
INCI name:	Citrus limon
Application:	Fragrance Raw Material

SECTION 3 - HAZARDS IDENTIFICATION

R10 Flammable liquid

SECTION 4 - FIRST- AID MEASURES

INHALATION:	Remove from exposure site to fresh air. Keep at rest. Obtain medical attention.
EYE CONTACT:	Rinse immediately with plenty of water for at least 15 minutes. Contact a doctor if symptoms persist.
SKIN CONTACT:	Remove contaminated clothes. Wash thoroughly with soap & water, flush with plenty of water. If irritation persists, seek medical advice.
INGESTION:	Rinse mouth out with water. Seek medical advice immediately.
OTHER:	When assessing action take Risk & Safety Phrases into account (Section 15)

SECTION 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:	Use CO2, Dry Powder or Foam type Extinguishers, spraying extinguishing media to base of flames. Do not use direct water jet on burning material.
SPECIAL MEASURES:	Avoid vapor inhalation. Keep away from sources of ignition. Do not smoke. Wear positive pressure self-contained breathing apparatus & protective clothing.
EXTINGUISHING PROCEDURES:	Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Avoid inhalation & direct contact with skin & eyes. Use individual protective equipment (safety glasses, waterproof-boots, suitable protective clothing) in case of major spillages.
ENVIRONMENT PRECAUTIONS:	Keep away from drains, soils, surface and groundwater.
CLEANING UP METHODS	Remove all potential ignition sources. Contain spilled material.
FOR SPILLAGES:	Cover with an inert or non-combustible inorganic absorbent material, sweep up and remove to an approved disposal container. Observe state, federal & local disposal regulations.

SECTION 7- HANDLING & STORAGE

PRECAUTIONS IN HANDLING:	Apply good manufacturing practice & industrial hygiene practices, ensuring proper ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling.
STORAGE CONDITIONS:	Store in tightly closed original container, in a cool, dry & ventilated area away from heat sources & protected from light. Keep air contact to a minimum.
FIRE PROTECTION:	Keep away from ignition sources & naked flames. Take precautions to avoid static discharges in working area.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:	Avoid breathing product vapor. Apply local ventilation where possible.
VENTILATION:	Ensure good ventilation of working area.
HAND PROTECTION:	Avoid all skin contact. Use chemically resistant gloves if required.
EYE PROTECTION:	Use safety glasses.
WORK/HYGIENE PRACTICES:	Wash hands with soap & water after handling.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

COLOR:	Pale yellow to greenish yellow
APPEARANCE:	Mobile liquid
ODOR:	Characteristic of fresh lemon peel
FLASH-POINT °C:	45-53 (113°F - 127.4°F)
SPECIFIC GRAVITY @ 20°C (68°F):	0.8480 to 0.8650
REFRACTIVE INDEX @ 20°C (68°F):	1.4650 to 1.4850

SECTION 10 - STABILITY & REACTIVITY

REACTIVITY:	It presents no significant reactivity hazards, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidizing agents.
DECOMPOSITION:	Liable to cause smoke & acrid fumes during combustion: Carbon monoxide, carbon dioxide & other non-identified organic compounds may be formed.

SECTION 11 - TOXICOLOGICAL INFORMATION

Irritation/Sensitation-nil at 10% (human) and nil as 100%. 1/2000 dermatitis patients were sensitive to lemon oil.

SECTION 12 - ECOLOGICAL INFORMATION

BIODEGRADABILITY:	Data not available
PRECAUTIONS:	Prevent surface contamination of soil, ground & surface water.

SECTION 13 - DISPOSAL CONSIDERATIONS

Avoid disposing to drainage systems and into the environment. Seek expert advice.

SECTION 14 - TRANSPORT INFORMATION

Handle according to good safety procedures avoiding any unnecessary exposure. Store in full closed containers away from heat, light and source of ignition. Store in cool area

SECTION 15 - REGULATORY INFORMATION

HAZARDS:	
SYMBOLS:	
RISK PHRASES:	R10 Flammable liquid
SAFETY PHRASES:	

SECTION 16 - OTHER INFORMATION

Abbreviations used in preparation of MSDS:

CAS No.	CAS Registration number is an assigned number to Identify a material. CAS stands for Chemical Abstracts Service
FEMA	Federal Emergency Management Center
INCI	International Nomenclature of Cosmetic Ingredients
N/A	Not Applicable
R-Phrases	Risk phrases
S-Phrases	Safety phrases
F/HDPE	High-density polyethylene
HPPE	Higher performance polyethylene
Q.C.	Quality Control

PACKAGING:

Type	Suitability
Glass	Yes
Lacquer lined steel/tin	Yes
Aluminum	Yes
HPPE	No
F/HDPE	Yes
Other plastic	No

SHELF LIFE

Min 12 months when stored within advised conditions.

Q.C. REQUIREMENTS.

In-line with general product specification. Always satisfy suitability for specific application.

The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding its' correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product, and to assume liability for loss, injury, damage or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.