



#### SAFETY DATA SHEET

Preparation Date: 12/28/2018 Revision Number: E1

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Lemon Oil, Italian Type, Coldpressed, FCC

Product Number : L1201 Brand : Spectrum Chemical

CAS-No. : 8008-56-8

1.2 Details of the supplier of the safety data sheet

Company : Spectrum Chemical

14422 South San Pedro St. Gardena, CA 90248

Telephone : +1 310-516-8000 Fax : +1 310-516-9843

1.3 Emergency telephone number

Emergency Phone # : +1-800-424-9300 (CHEMTREC)

## 2. HAZARD IDENTIFICATION

### 2.1 Classification of the substance / preparation

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS classification]

<u>HAZARD CATEGORY</u> <u>HAZARD STATEMENTS</u>

Flammable Liquid 3 H226 FLAMMABLE LIQUID AND VAPOUR

Aspiration Hazard 1 H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS

Skin Corrosion/Irritation 2 H315 CAUSES SKIN IRRITATION

Skin Sensitization 1 H317 MAY CAUSE AN ALLERGIC SKIN REACTION

Aquatic acute 1 H400 VERY TOXIC TO AQUATIC LIFE

Aquatic Chronic 1 H410 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

R10 FLAMMABLE
R38 IRRITATING TO SKIN

R43 MAY CAUSE SENSITIZATION BY SKIN CONTACT
R65 HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED

R50/53 VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT

### 2.2 Label Elements

Label elements according to Regulation (EC) No. 1272/2008 (Substance)/Directive 67/548/EEC

# Hazard Pictogram / Symbol:









Signal word / Indication(s) of danger:

Danger

# Hazard Pictogram / Symbol:



N Dangerous for the environment



Xn Harmful

## **Hazard Statements**

**H226** FLAMMABLE LIQUID AND VAPOUR

H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS

H315 CAUSE SKIN IRRITATION

H317 MAY CAUSE AN ALLERGIC SKIN REACTION

H410 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

# **Precautionary Statements**

P210 KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. – NO SMOKING

P233 KEEP CONTAINER TIGHTLY CLOSED

P241 USE EXPLOSION-PROOF ELECTRICAL/ VENTILATING/LIGHTING/.../EQUIPMENT

P261 AVOID BREATHING DUST/FUME/GAS/MIST/VAPOURS/SPRAY

P273 AVOID RELEASE TO THE ENVIRONMENT

P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION

P301+310 IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN

P303+361+353 IF ON SKIN (OR HAIR): REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER

P331 DO NOT INDUCE VOMITTING

P333+313 IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION

P405 STORE LOCKED UP

P501 DISPOSE OFF CONTAINERS TO ..... (IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATION)

### 3. COMPOSITION / INFORMATION OF INGREDIENTS

Substance Name : LEMON OIL ITALIAN

Product Description : This product is a 100% natural flavour ingredient.

**Hazardous components** : D-LIMONENE (CAS No 5989-27-5) Xi, N, R10, R38, R43, R50/53

BETA-PINENE (CAS No 127-91-3); Xn, Xi; R43, R50/53, R65 GAMMA-TERPINENE (CAS No 99-85-4); Xn, R10, R65

CAS No. : 8008-56-8

**EC No.** : 284-515-8

Botanical Name : Citrus limon (L.) Burm. f. (Rutaceae)

Stabilizers : N/A
Hazard Impurities : N/A

Synonyms : Citrus limon (L.) Burm. F.

Index No. : N/A

**CLP Reference No.** : 02-2119699168-20-0000

REACH Pre-Registration No. : ----

# 4. FIRST AID MEASURES

# 4.1 Description of First Aid Measures

 Eye Contact
 :
 Remove contact lenses if worn. Flush immediately with plenty of water.

 Skin Contact
 :
 Remove contaminated clothing. Wash affected area with mild soap and water.

 Inhalation
 :
 Remove affected person to fresh air. If discomfort persists, consult physician.

Swallowing : Seek immediate medical care.

# 4.2 Indication of any immediate medical attention and special treatment method

IF SWALLOWED: Immediately call a POISON CENTER or Doctor/Physician.

IF ON SKIN (or hair): Remove /take off immediately all contaminated clothing. Rinse skin with water /shower.

## 5. FIRE FIGHTING MEASURES

### 5.1 Extinguishing Media

- **Suitable** : Carbon Dioxide; Dry Chemical; Universal Type Foam.

- Unsuitable : Water spray; others not established.

# 5.2 Special hazards arising from substance

Combustible liquid Possibility of development of hazardous gases or vapors in event of fire Following may develop: CO and CO2

# 5.3 Advice for fire fighters

Do not stay in dangerous zone without self protective clothing and breathing apparatus Spray extinguishing media directly into base of fire Cool containers exposed to flame with water Prevent fire fighting water entering surface water or ground water.

# 6. ACCIDENTAL RELEASE MEASURES

# 6.1 Personal Precautions, protective equipment and emergency procedures

Wear personal protective clothing. Keep away unprotected individuals. Eliminate source of ignition. Keep area well ventilated and isolate the spill.

### 6.2 Environmental precautions

Prevent entry into drains, ground/surface water or sewerage system.

### 6.3 Methods and material for containment and cleaning up

Pick up with absorbents material (Sand) or with pump for large spills.

#### 6.4 Reference to other sections

Refer to Section 7, 8 & 13

# 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

#### Measures to prevent fire

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Use explosion proof electrical/ ventilating/lighting/equipment etc.

## Measures to prevent aerosols and dust generation

Ensure good ventilation at workplaces

## Measures to protect the environment

Prevent entry into drains, ground/surface water or sewerage system.

#### **General Occupational hygiene**

Wear protective gloves/protective clothing/eye protection/face protection. Take off contaminated clothing and wash before reuse.

## 7.2 Conditions for safe use, including any incompatibilities

#### Information on storage conditions

Should be stored in cool, dark, dry, well ventilated places in full, tightly sealed containers protected from light & source of ignition

#### Information on packing materials

Should be packed in Aluminium, HDPE Food Grade Cans, MS Coated Drums, and GI Drums, Avoid long contact with Iron

#### Requirements for storage rooms and vessels

Should be stored in suitable containers (lines inside) e.g. MS Coated Drums, GI Drums etc. No special requirement for storage rooms.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### **Exposure controls**

## 8.1 Appropriate engineering controls

Engineering controls should be used as the primary means to control exposures

### 8.2 Personal protective equipments









Dust mask

Safety gloves tight safety goggles Protective clothing

# .3 Environmental exposure controls

Prevent entry into drains, ground/surface water or sewerage system.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

-Physical state Liquid

-Color Pale Yellow to Deep Yellow

 Odor
 Characteristic

 Odor Threshold
 Medium

 pH
 N/A

 Melting Point °C
 N/A

 Boiling Point °C
 N/A

 Flash Point (Closed Cup) °C
 50 ° C

 Vapor Pressure
 N/A

Specific Gravity /Relative Density 0.845 - 0.860 @ 20 ° C
Refractive Index 1.468 - 1.480 @ 20 ° C

Optical Rotation +57° - +65.6°

Solubility

Surface tension

Vapor Density

-Water Insoluble

-Alcohol 1:3 in 95% alcohol

Viscosity N/A
Partition Coefficient N/A

N/A

N/A

Explosive Limits
Not Determined
-Lower Explosion Limit
Not Determined

-Upper Explosion Limit N/A

Auto ignition Temperature Flammability Flammability N/A

Granulometry N/A

Oxidizing Properties

# 10. STABILITY AND REACTIVITY

10.1 Reactivity

Not reactive, stable at room temperature.

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

Reactions with strong oxidizers

10.4 Conditions to avoid

No decomposition if stored and handled properly

10.5 Incompatible materials

Avoid strong acids strong bases and all oxidising agents

10.6 Hazardous decomposition products

No dangerous decomposition products expected by intended us

# 11. TOXICOLOGICAL INFORMATION

 11.1 Acute toxicity oral (LD50)
 > 5 gm/kg bw (Rat)

 11.2 Acute toxicity inhalation
 Not Determined

 11.3 Acute toxicity dermal (LD50)
 > 10 gm/kg bw (Rabbit)

 11.4 Skin Irritation/Corrosion
 Irritating

 11.5 Respiratory sensitization
 N/A

 11.6 Skin sensitization
 Sensitizing

11.7 CMR Effects

Carcinogenicity No Mutagenicity No Toxic to reproduction No

11.8 Eye Irritation / Corrosion Not irritating

11.9 Exposure limits

There is a blanket recommendation of 10 mg/m3 for inspirable dusts or mists when limits have not otherwise been

established.

### 12. ECOLOGICAL INFORMATION

12.1 Toxicity

PNEC Aqua (fresh water) Not estimated PNEC Aqua (marine water) Not estimated PNEC Aqua (intermittent release) : Not estimated PNEC Sediment (fresh water) Not estimated PNEC Sediment (marine water) Not estimated **PNEC Soil** Not estimated **PNEC Oral** Not estimated NOAEL N/A

 EC50 (48hrs)
 :
 Not estimated

 LC50 (96hrs)
 :
 Not estimated

12.2 Persistence and degradability : Readily biodegradable in water

12.3 Mobility in Soil : Low mobility

12.4 Results of PBT and vPvB assessment

N/A

# 13. DISPOSAL CONSIDERATION

## 13.1 Waste treatment methods

Product/packaging disposal

Handle in accordance with official provisions

## Waste treatment options

Recycling is preferred to disposal or burning

## Waste code /Waste designations according to EWC/AVV

15 02 02\* absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances

#### 13.2 Recommendations

Empty contaminated packing thoroughly as they may be recycled

Moistened solids to be disposed of adhering to necessary technical regulations after consulting concerned authorities

#### 14. TRANSPORT INFORMATION

## 14.1 Land Transport (ADR/RID/GGVSE)

**UN Number** 1197 **DG Class** 3 **Packing Group** 

**Proper Shipping Name** Extracts, Flavoring, Liquid

**Classification Code** 3Y

**Hazard Labels** 



#### 14.2 Sea Transport (IMDG-Code/GGVSee)

**UN Number** DG Class 3 **Packing Group** Ш

**Proper Shipping Name** Extracts, Flavoring, Liquid

**Marine Pollutant** Yes

**Hazard Labels** 



## 14.3 Air Transport (ICAO-IAT/DGR)

**UN Number** 1197 3 **DG Class Packing Group** Ш

**Proper Shipping Name** Extracts, Flavoring, Liquid

**Hazard Labels** 



### 14.4 Special precautions for users

Wear protective gloves/protective clothing/eye protection/face protection. Take off contaminated clothing and wash before reuse Prevent entry into drains, ground/surface water or sewerage system.

# 14.5 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

N/A

# 14.6 Other Information

**Custom Tariff Code** 3301 90 30

**EmS Code** 

## 15. REGULATORY INFORMATION

# EU regulations:

The product has been classified and labelled according to criteria provided in Directive 67/548/EEC and 1272/2008/EC, and following the recommendations of EFFA (European Flavor and Fragrance Association).

Other Regulations: German Regulation (VwVws)

Water Hazard Class WGK 3

# **16. OTHER INFORMATION**

CLP

# 16.1 Changes to previous version

Changes applicable according to regulation (EC) No 1907/2006 (REACH)

# 16.2 Abbreviations and acronyms

GHS Globally Harmonized System of Classification and labeling of Chemicals CAS Chemical abstract Service (division of American Chemical society)

Classification, Labelling and Packaging LD50 Lethal concentration, 50 percent EC50 Effective concentration, 50 percent PNEC Predicted No Effect Concentration

NOAEL : No Observed Adverse Effect Levels

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road

RID : Regulations Concerning the International Transport of Dangerous Goods by Rail

IMDG : International Maritime Code for Dangerous Goods

IATA : International Air Transport Association

IATA-DGR : Dangerous Goods Regulations by the International Air Transport Association (IATA)

ICAO : International Civil Aviation Organization

# 16.4 Wording of relevant hazard statement and/or precautionary statements referred to in section 2 to 15

**Hazard Codes** 

N DANGEROUS FOR THE ENVIRONMENT

Xn HARMFUL

Risk Phrases

R10 FLAMMABLE
R38 IRRITATING TO SKIN

R 43 MAY CAUSE SENSITIZATION BY SKIN CONTACT.
R 65 HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED

R 50/53 VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT

Safety Phrases

\$24 AVOID CONTACT WITH SKIN \$37 WEAR SUITABLE GLOVES

\$61 AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEET

\$62 IF SWALLOWED, DO NOT INDUCE VOMITTING: SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.

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### Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet