

SAFETY DATA SHEET

by EP and Council Regulation (EC) No 1907/2006 (REACH)

PRODUCT NAME: LEMONESOL

Revision date: 1.1.2016/1

1 Identification of the substance / preparation and company / undertaking

1.1 Identification of the substance / preparation

Product name: **LEMONESOL**

Chemical family name: Monocyclic Terpenes

Other Name: Not listed

Registration number: Not applicable for objects

1.2 Application

Usage: Applications in chemical industry

Not recommended usage: Not for final consumer Applications

1.3 Manufacturer / Supplier:

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2 Hazards Identification

2.1 Classification of the substance or mixture

Flammable

Danger H226 H304 H315 H317 H410

2.2 Label elements

2.2.1· Hazard pictograms: GHS02, GHS07, GHS08, GHS09



2.2.2· Signal word: Danger

2.2.3· Indications of danger:

H226 (flammable liquid, category 3)

H304 (can be fatal if swallowed or entering airways)

H315 (causes skin irritation)

H317 (may cause an allergic skin reaction)

H410 (Very toxic to aquatic life with long lasting effects)

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2.2.4·Caution advice:

2.2.4.1· Prevention:

P210 (Keep away from heat, sparks, open flame or hot surfaces)

P264 (Wash hands after handling)

P280 (wear gloves/clothes/eye/face protection)

2.2.4.2 · Intervention:

P301+P315+P330+P331 (IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

Consult a doctor immediately)

P303+P361+P353 (IF ON SKIN: Take off contaminated clothes. Rinse skin with water or shower)

P305+P351+P338 (IF IN EYE: Rinse cautiously with water for several minutes. Remove contact lens, if present and easy. Further clarifying)

2.2.4.3· Storage:

P402+P403+P233+P410 (Store in a dry and ventilated place. Keep in a fresh place.

Protect from sunlight)

2.3 Other hazards

Do NOT contain any carcinogenic or potential carcinogen listed by OSHAS, IARC, ACGIH or NTP

3 Composition / information on ingredients

3.1 Substances

3.1. General Information

Chemical Name: 4-Isopropenyl-1-Methyl-1-Cyclohexene

Chemical Formula: C₁₀H₁₆

Molecular Weight: 136.24 g/mole

CAS-No: 5989-27-5

EC (EINECS/ELINCS)-No: 227-813-5

RTECS-No: GW6360000

REACH-No: 01-2119529223-47-0009

Percent . 95%

4 First aid

4.1. Emergency data and first aid

Inhalation: Remove to fresh air

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes

Skin contact: Immediately flush skin with plenty of water and soap. Remove contaminated clothing and shoes

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Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms appear

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

Eye contact: May cause moderate to severe irritation

Skin contact: May cause redness

Ingestion: Headache, nausea, vomiting, convulsions and loss of consciousness

Inhalation: Irritant to respiratory tract, sore throat, coughing, shortness of breath, dizziness, nausea and loss of consciousness.

4.3. Identification of any immediate medical attention and special treatment needed

5 Fire fighting measures

5.1. Extinguishing media: CO₂, foam, powder. NEVER USE WATER

5.2. Special hazards : It forms explosive mixtures with air at elevated temperatures. Hazardous combustion gases in contact with fire

5.3. Advice for firefighters: Use adequate protective clothing and self-contained breathing in case of fire.

Other considerations: Its vapors are denser than air. They are scattered along the ground and placed in low or confined areas (sewers, basements, etc.) and can ignite on contact with ignition sources

6 Accidental release measures

6.1. Personal precautions : See section 8

6.2. Environmental precautions: Ventilate area of leak or spill. Keep out of drains, culverts, ditches and canals

6.3. Cleaning: Absorb with an inert material. NEVER USE WATER

7 Handling and storage

7.1. Precautions: Keep out of sources of ignition and heat. Take measures to prevent electrostatic charges. Open container slowly to relieve pressure caused by temperature variations. Work in well-ventilated areas. Do not breathe gas
Wash hands with plenty of water and soap after handling

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7.2. Storage conditions : Between 15-25oC. Store in epoxy-lined containers to preserve quality.

Do not store in plastic. Store in closed containers away from heat or sources of ignition and oxidizing materials. Protect against physical damage to containers. Avoid direct light

8 Exposure controls / personal protection

8.1. Control Parameters: No specific recommendations

8.2. Exposure controls:

Ventilation system: General mechanical ventilation (to reduce fumes)

Personal: Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

Neoprene or rubber gloves

Eye: Ensure eyewash stations and safety showers are proximal to the work-station location

Inhalation: No necessary in well-ventilated areas. If vapor concentrations are high, wear respiratory protection (Filter A)

9 Physical and chemici properties

9.1. Information on physical and chemical properties:

Physical State: Liquid

Appearance: Transparent to slight yellow

Odor: Mild citrus aroma

Taste: N/A

Molecular weight: 136.24 g/mole

pH: N/A

Boiling point: 175oC (349F)

Melting point: -96oC (-140F)

Auto-ignition point: 237oC

Flammability point: > 43oC

Explosion limits: 0.7 to 6.1 vol. %

Specific gravity: 0.834-0.841 (at 20oC)

Solubility in water: Not soluble

Vapor pressure: <2 mmHg (at 20oC)

Flash Point: 45-49oC (113-121F)

9.2. Other information: Not available

10 Stability and reactivity

10.1. Reactivity: ----.

10.2. Chemical stability: Stable

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10.3. Hazardous Polymerization: None, under normal storage conditions

10.4. Conditions to avoid: Heat, sparks, flames, pressures and inadequate handling of containers

Possibility of reaction: Air oxidation. If the container is partially filled, fill the space with inert gas, such as N₂ or CO₂

10.5. Incompatible materials: Strong oxidants, acids, air, peroxides, halogens. Do not store in plastic containers

11 Toxicological information

11.1. Information on toxicological effects

Inhalation: Low toxicity in animal studies. May cause irritation to respiratory tract, sore throat, coughing, shortness of breath, dizziness, nausea and loss of consciousness

Skin contact: Moderate or low toxicity in animal studies. May cause light redness

Eye contact: May cause moderate to severe irritation

Chronic toxicity: It contains no known toxins. May cause drying or dermatitis. Not classified as carcinogenic according to OSHAS, IARC, ACGIH or NTP

12 Ecological information

12.1. Toxicity: Significant to aquatic organisms and ecosystems, although some bacterias and fungi have the ability to degrade it, reducing its toxicity to fish. When spilled, it can act as an oil, forming a film, coating, sludge or emulsion in water. Volatilizes rapidly and shows no significant concentration in bio-environmental
Do not allow to enter waters, waste water or soil

12.2. Persistence and degradability: Biodegradable

13 Disposal considerations

13.1. Waste treatment methods: In the European Union are not set uniform guidelines for the disposal of chemical waste, which have the status of special waste and their treatment and disposal are subject to domestic legislation in each country. Therefore, in each case contact the competent authority or those companies legally permitted for waste disposal.

2001/573/CEE: Council Decision of 18 March 1991, which amending directive 75/442/EEC on waste.

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In Spain: Law 10/1998 of April 21 on Waste. Published in the BOE04/22/1998.

Order MAM/304/2002 of February 8 for which recovery operations and waste disposal and the European list waste are published. Published in the BOE 02/19/1902.

Contaminated packaging: They will have the same treatment as products contents.

Directive 94/62/EC of the European Parliament and Council of 20 December 1994 on packaging and packaging waste.

In Spain: Law 11/1997 of 24 April, on packaging and packaging waste packaging. Published in the BOE 04/25/1997.

Real Decree 782/1998 of 30 April, by approving the Regulation for the development and implementation of Law 11/1997 of 24 April of packaging and packaging waste. Published in the BOE 05/01/1998.

14 Transport information

14.1. Usual shipping containers: Epoxy-lined containers. Do not store in plastic

14.2. UN/ADR/IMDG/IATA-No: UN2319 Terpene Hydrocarbons N.E.P.

14.3. Hazard class: 3. Transport Class: 3. Class label: 3. Other labels:



14.4. Packing group: III

14.5. Tunnel restriction code : D/E

14.6. Health risk grade: 1 Flammability grade: 2 Reactivity risk grade: 0

14.7. Other considerations: Personnel should be duly accredited and trained to transport hazardous materials. Transport units should be hermetically sealed and carry a visible and legible label identifying the hazardous material being transported, and the UN number

15 Regulatory information

15.1. Safety, Health and Environmental Regulations

EC-No: 227-813-5

Classification according to Regulation (EC) 1272/2008 (REACH):

Danger:

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H304 (can be fatal if swallowed or entering airways)

H315 (causes skin irritation)

H317 (may cause an allergic skin reaction)

H410 (Very toxic to aquatic life with long lasting effects)

R-phrases according to EU Directive 67/548/EC:

R-10 (flammable)

R-50/53 (very toxic to aquatic organisms / may cause long-term adverse effects in the aquatic environment)

R-38 (irritating to skin)

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R-43 (may cause sensitization by skin contact)

S-phrases according to EU Directive 67/548/EC:

S-24 (avoid contact with skin)

S-37 (wear suitable gloves)

S-60 (this material and its container must be disposed of as hazardous waste)

S-61 (avoid release to the environment. Refer to special instructions/safety data sheet)

Label elements

· Hazard pictograms:

GHS02



GHS07



GHS08



GHS09



· Signal word: **Danger**

· Indications of danger:

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· Caution advice:

· Prevention:

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· Intervention:

P301+P315+P330+P331 (IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Consult a doctor immediately)

P303+P361+P353 (IF ON SKIN: Take off contaminated clothes. Rinse skin with water or shower)

Other Hazards: No information available

15.2. Chemical Safety Assessment: No information available

16 Other information

The information contained in this safety data sheet is based on our knowledge and experience at the time of its edition, trying to provide information relating to the proper use, storage and transport.

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The use of this information and the conditions of product use are beyond the control of GLOBALAB I+D, SL., and the proper handling and use of the product are the responsibility of the user.

Compliance with the conditions indicated in this safety data sheet is no excuse to a legal regulation that may be applicable.