



USA: 2665 S. Bayshore Dr. Suite 220, Miami Fl, 33133
Europe: Paseo de la Castellana 77 Madrid, Spain 28046
Mexico: Av. Oaxaca 86-2, Mexico City, Mexico 06700

+ (1) 305 699 4113
+ (34) 91 076 2755
+ (52) 55 8526 6118

✉ info@jasujuice.com 💻 www.jasujuice.com

Material Safety Data Sheet

Product Emergency Phone Numbers: Jasu +(1) 305 699 4113

Product Code/Origin Date: 0321/26H20

Section I - Product Identifier

1.1 Product Identifier

Trade name: Lemon Cold Pressed Oil

CAS Number: 84929-31-7

1.2. Relevant identified uses of the substance or mixture and uses advised against

No further relevant information is available.

Application of the substance / the mixture

Flavors/Fragrances/Solvents

1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier:

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Section II - Hazards Identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flammable Liquid, Category 3.	H226 Flammable liquid and vapor.
Skin Corrosion/Irritation, Category 2	H315 Causes skin irritation.
Skin Sensitization, Category 1	H317 May cause an allergic skin reaction.
Aspiration toxicity, Category 1	H304 May be fatal if swallowed and enters airways.
Aquatic Chronic, Category 2	H411 Toxic to aquatic life with long-lasting effects.

2.2. Label elements

Labeling according to Regulation (EC) No 1272/2008

The substance is classified and labeled according to the CLP regulation.

Hazard pictograms



GHS02 GHS07 GHS08 GHS09

Signal word: Danger

Hazard-determining components of labeling: (R)-p-mentha-1,8-diene beta-Pinene p-Mentha-1,4-diene
alpha-Pinene Citral

Hazard statements

H226 Flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long-lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water [or shower].

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P321 Specific treatment (see on this label).

P331 Do NOT induce vomiting

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.

2.3 Other hazards Can cause dry skin.

- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

Section III - Composition / information of ingredients

3.1 Chemical characterisation: Substances

CAS 84929-31-7

EINECS CAS 84929-31-7

EINECS 284-515-8

Dangerous Components	
CAS: 5989-27-5 EINECS: 227-813-5	(R)-p-mentha-1,8-diene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317
CAS: 127-91-3 EINECS: 204-872-5	beta-Pinene Flam. Liq. 3, H226; Asp. Tox. 1, H304
CAS: 99-85-4 EINECS: 202-794-6	p-Mentha-1,4-diene Flam. Liq. 3, H226; Asp. Tox. 1, H304
CAS: 80-56-8 EINECS: 201-291-9	Alpha-Pinene Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317
CAS: 5392-40-5 EINECS: 226-394-6	Citral Skin Irrit. 2, H315; Skin Sens. 1, H317
CAS: 123-35-3 EINECS: 204-622-5	Myrcene Flam. Liq. 3, H226; Asp. Tox. 1, H304

Section IV - Firsts aid measures

4.1 Description of first aid measures

General information:

If health disorder happens, call for medical help immediately.

Eyes: Remove contact lenses at once. Flush with water for at least 15 minutes. If irritation persists, seek medical attention.

Skin: Wash the affected area with copious amounts of soap and water. If irritation develops, seek medical attention.

Ingestion: Seek medical attention immediately. Do not leave the victim unattended.

Inhalation: If symptoms of overexposure are experienced, evacuate to fresh air. If symptoms persist, seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

Section V - Fire fighting measures

5.1 Extinguishing media: Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.

For safety reasons unsuitable extinguishing agents: Water with full jet.

5.2 Special hazards arising from the substance or mixture: In case of fire, the following can be released: Carbon monoxide (CO)
Carbon dioxide (CO₂)
Smoke and soot
Do not use water with a full jet to prevent fire spreading.

5.3 Advice for firefighters: Protective equipment.

Section VI - Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions: Do not allow products to reach the sewage system or any water course. Do not allow water to enter sewers/ surface or groundwater.

6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents.

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

Section VII - Handling and storage

7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

7.2 Conditions for safe storage, including any incompatibilities Storage: Store in sprinklered warehouse in cool, dry conditions in well sealed receptacles.. Information about storage in one common storage facility: Not required. Further information about storage conditions: Keep container tightly sealed. Storage class 3. Flammable liquid.

7.3 Specific end use(s) No further relevant information available.

Section VIII - Exposure control / personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: The lists valid during the making were used as basis.

8.2 Exposure control

Personal protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the skin. Avoid contact with the eyes and skin.

Respiratory protection: In case of brief exposure or low pollution use a respiratory filter device. In case of intensive or longer exposure use a self- contained respiratory protective device.

Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles.

Section IX – Physical and chemical properties

Physicochemical Characteristics

Parameter	min.	max.	Unit
Microbiological Data			
Aldehyde (as Citral)	2.7	3.5	% (w/w)
Optical Rotation (25 ° C)	57.0	65.6	°
Refractive Index (20 °C)	1.4680	1.480	°
Specific Gravity / Density (20 °C)	0.840	0.865	g/ml

Sensorial Characteristics

Parameter	Result
Appearance (visual)	Free from defects affecting the appearance
Odor (Smell)	Citrus aroma/Equal to standard/Intense/Fresh
Color	Pale yellow to greenish-yellow
Water Solubility	Insoluble

Section X – Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability Thermal decomposition / conditions to be avoided: Heating causes vaporisation and formation of ignitable atmosphere is possible.

10.3 Possibility of hazardous reactions **Formation of explosive gas mixture with air possible:** Product is not self igniting; but in case of unpropitious storing conditions (air admission, heat accumulation) self ignition is possible for moistened solids (e.g. cloth, pulp, filter panels, binder). Reacts violently with oxidising agents.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products expected by intended use.

Section XI: Toxicological information

11.1 Information on toxicological effects: Acute toxicity based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification		
5989-27-5 (R)-p-mentha-1,8-diene ORAL	LD50	4,400 mg/kg
5392-40-5 Citral ORAL	LD50	4,960 mg/kg

Primary irritant effect:

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Sensitisation: May cause an allergic skin reaction.

Acute effects (acute toxicity, irritation and corrosivity): Aspiration may cause lung damages.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: May be fatal if swallowed and enters airways.

Section XII: Ecological information

12.1 Environmental impact:- Pimephales promelas / LC50 (96h): 0.7 mg/L, Daphnia magna / EC50 (48h): 0.4 mg/L - Green algae / NOEC (96h): 4 mg/L.

12.2 Persistence and degradability: No further relevant information available

12.3 Bioaccumulation: No further relevant information available

12.4 Mobility: No further relevant information available

12.5 Results of PBT and vPvB assessment: PBT: Not applicable, vPvB: Not applicable.

Section XIII: Disposal considerations

13.1 Waste treatment methods

Recommendation Recycling is preferred to disposal or burning. Disposal must be made according to official regulations. Must not be disposed of together with household garbage. Do not allow products to reach the sewage system.





European waste catalogue	
02 00 00	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing.
02 03 00	Wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation.
02 03 03	Wastes from solvent extraction.


Uncleaned packaging:

Recommendation: Empty contaminated packaging thoroughly. They may be recycled after thorough and proper cleaning. Packagings that may not be cleansed are to be disposed of in the same manner as the product. Moistened solids (e.g. cloth, pulp, filter panels, binder) can be burnt after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

15 02 02: Filter and absorption materials contaminated with hazardous agents.

Section XIV: Transport information

14.1 UN-Number · ADR, IMDG, IATA	UN1993
14.2 UN proper shipping name ADR IMDG IATA	1993 FLAMMABLE LIQUID, N.O.S. (d-limonene), environmentally hazardous. FLAMMABLE LIQUID, N.O.S. (d-limonene, decanal), marine pollutant. FLAMMABLE LIQUID, N.O.S. (d-limonene)
14.3 Transport hazard class(es) ADR   Class Label IMDG   Class Label	 3 Flammable liquids 3 3 Flammable liquids 3

IATA  Class Label	3 Flammable liquids 3
14.4 Packing group · ADR, IMDG, IATA	III
14.5 Environmental hazards Marine pollutant Special marking (ADR)	Product contains environmentally hazardous substances: d-limonene. Yes Symbol (fish and tree) Symbol (fish and tree)
14.6 Special precautions for user Danger code (Kemler) EMS Number Stowage Category	Warning: Flammable liquids. 30 F-E,S-E A
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3 D/E
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation"	UN 1993 flammable liquids, N.O.S. (D-limonene), 3, III, environmentally hazardous.

Section XV: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture ·

Directive 2012/18/EU

Named dangerous substances - ANNEX I Substance is not listed.

Seveso category E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Section XVI: Regulatory information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation. H317 May cause an allergic skin reaction.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life with long lasting effects.

H410 Toxic to aquatic life with long lasting effects.

Recommended restriction of use: For industrial application only

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

MDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)