

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

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Publication: 03/10/2022

Revision: 26/12/2024

Version: 01



LEMON FLAVOR

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

| | |
|---------------|--|
| Product name: | Lemon flavour Lemon flavor Citroenaroma Arôme citron Zitronengeschmack |
| N° CAS: | Not available. |
| N° EC: | Not available. |

1.2 Relevant identified uses of the substance/mixture and uses advised against

| | |
|------------------|--|
| Identified uses: | Active Pharmaceutical Ingredient or Excipient. |
|------------------|--|

1.3 Details of the supplier of the safety data sheet

| | |
|------------|--|
| Company: | Magis-Pharma NV Neerlandweg 24 2610 Wilrijk Belgium |
| Telephone: | (+32) (0)3 457 11 76 |
| Email: | info@magis-pharma.be |
| Web page: | www.magis-pharma.be |

1.4 Emergency telephone number

| | | |
|----------------------------|-------------------------|--------------------------|
| Public utility foundation: | Belgisch Antigifcentrum | Centre Antipoisons Belge |
| Telephone: | (+32) (0)70 245 245 | (Service 24/7) |
| Web page: | www.antigifcentrum.be | www.centreantipoisons.be |

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance/mixture

Classification according to (EC) n° 1272/2008

| | |
|--------------|------|
| Flam. Liq. 3 | H226 |
|--------------|------|

2.2 Label elements

Labelling according to (EC) n° 1272/2008

Hazard pictogram(s):



Signal word(s): Attention

Hazard statements:

| | |
|--------|--|
| H226 | Flammable liquid and vapour. |
| EUH208 | Contains Lemon oil Messina (8008-56-8), Citral 96+% (5392-40-5). May produce an allergic reaction. |

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Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.

Additional applicable label elements: Not applicable.

2.3 Other hazards

This substance/mixture does not meet the PBT criteria of the REACH Regulation, annex XIII.
This substance/mixture does not meet the vPvB criteria of the REACH Regulation, annex XIII.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

| | |
|--------------------|-----------------------------------|
| Product name: | Lemon oil Messina |
| IUPAC name: | Lemon oil |
| Synonyms: | Not available. |
| N° CAS: | 8008-56-8 |
| N° EC: | 284-515-8 |
| Molecular Formula: | Not available. |
| Content: | 0.1 – 1 |
| Product name: | Citral 96+% |
| IUPAC name: | (2E)-3,7-dimethylocta-2,6-dienal |
| Synonyms: | Geranial |
| N° CAS: | 5392-40-5 |
| N° EC: | 226-349-6 |
| Molecular Formula: | C ₁₀ H ₁₆ O |
| Content: | 0.1 – 1 |

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

| | |
|---------------------|--|
| General notes: | Never administer anything by mouth to an unconscious person. If you feel unwell, call a doctor (show them this label if possible). |
| After inhalation: | Remove the person to fresh air and ensure easy breathing. Allow the affected person to breathe fresh air. Allow the victim to rest. |
| After skin contact: | Remove contaminated clothing immediately. Rinse/shower skin with water. |
| After eye contact: | Rinse immediately and abundantly with water. Seek medical attention if pain or redness persists. As a precaution, rinse eyes with water. |
| After ingestion: | Rinse mouth. Do not induce vomiting. Call a physician as a matter of urgency. If unwell consult poison control center or a physician. |

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4.2 Most important symptoms and effects, both acute and delayed

Not expected to present a significant hazard under normal conditions of use.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Atomized water. Sand.

Unsuitable extinguishing media: Do not use a strong water jet.

5.2 Special hazards arising from the substance/mixture

Fire hazard: Flammable liquid and vapor.

Explosion hazard: May form a flammable/explosive vapor-air mixture.

Hazardous decomposition products in case of fire: Possible formation of toxic vapors.

5.3 Advice for firefighters

Surrounding fires: Cool exposed vessels with a water spray or mist. Use extreme caution when fighting a chemical fire. Avoid releasing extinguishing water into the environment.

Protection against fire: Do not enter fire zone without suitable safety equipment, including respiratory protection. Do not intervene without suitable safety equipment. Self-contained breathing apparatus. Full protective clothing.

Hazardous combustion products: Not available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

General measures: Remove sources of ignition. Take special precautions to avoid static electricity charges. Do not expose to open flame. No smoking.

For non-emergency personnel

Ventilate contaminated environment. Have redundant personnel leave. Do not expose to open flame, no sparks and no smoking.

For emergency responders

Do not intervene without appropriate safety equipment. Equip cleaning personnel with appropriate protection. For further information see section 8: "Exposure controls/personal protection". Ventilate the area.

6.2 Environmental precautions

Avoid discharge into the environment. Do not discharge into sewers or public waters. Alert the appropriate authorities if the liquid enters a sewer or open water.

6.3 Methods and material for containment and cleaning up

Cleaning methods: Absorb spills with an absorbent. Soak up the spill as soon as possible with inert solids such as clay or silica. Clean up leaked/spilled material. Store separately from other material. Alert authorities if product enters sewers or open water.

Other information: Take waste or solid residues to an authorized waste disposal facility.

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6.4 Reference to other sections

See Section 8. "Exposure controls and personal protection". For further information, see Section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions for safe handling:

Precautions for safe handling the substance or mixture: Do not inhale the vapors. Avoid contact with skin, eyes or clothing. Keep away from sources of ignition - No smoking. Ensure proper ventilation of the work area. Wash hands and other exposed parts with mild soap and water before eating, drinking, smoking or leaving work.

Additional handling hazards: Handle empty containers/packages with care, as the vapors left behind are flammable.

Personal protection:

Not available.

Technical protective measures:

Ensure proper ventilation of the work area

Handling:

Hygiene measures: Remove and wash contaminated clothing immediately before reuse. After working with this product, wash skin and hands thoroughly. Do not eat, drink or smoke while using this product.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

In a well-closed container.

Engineering measures: To avoid static electricity, follow proper grounding procedures. Ground storage and collection tank. Use explosion-proof electrical /ventilating /lighting equipment.

Conditions for safe storage, including any incompatibilities:

Storage conditions: Store only in original container in a cool, well-ventilated place at 15 - 25 °C.

Incompatible substances: Strong bases. Strong acids.

Incompatible materials: Ignition sources. Direct sunlight. Heat sources.

Storage – away from:

Protected from light. Keep away from sources of ignition.

7.3 Specific end use(s)

Active Pharmaceutical Ingredient or Excipient

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Not available.

8.2 Exposure controls

Appropriate engineering control

Make sure the workplace is properly ventilated.

Individual protection measures

Avoid unnecessary exposure.

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| | |
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| Eye/face protection: | Not determined. |
| Skin protection: | Wear appropriate protective clothing. |
| Hand protection: | Not determined. |
| Respiratory protection: | Wear an appropriate mask. |
| Thermal hazards: | Not determined. |

Environmental exposure control

Prevent discharge to the environment.

Do not eat, drink or smoke while using.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|---|---------------------------|
| Appearance: | Clear, colourless liquid. |
| Odour: | Characteristic. |
| Odour threshold: | Not available. |
| pH: | 6 - 8 |
| Melting/freezing point: | Not available. |
| Initial boiling point: | 138.3 °C |
| Boiling range: | Not available. |
| Flash point: | 40.5 °C |
| Evaporation rate: | Not available. |
| Flammability (solid/gas): | Not applicable. |
| Upper/lower flammability or explosive limits: | Not available. |
| Vapour pressure: | Not available. |
| Vapour density: | Not available. |
| Relative density: | Not available. |
| Solubility: | Not available. |
| Solubility in water: | Not available. |
| Partition coefficient (n-octanol/water): | Not available. |
| Auto-ignition temperature: | Not available. |
| Decomposition temperature: | Not available. |
| Viscosity: | Not available. |
| Explosive properties: | Not available. |
| Oxidising properties: | Not available. |

9.2 Other information

Not available.

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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Flammable liquid and vapor.

10.2 Chemical stability

Flammable liquid and vapor. May form a flammable/explosive vapor-air mixture.

10.3 Possibility of hazardous reactions

Not established.

10.4 Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks. Avoid contact with hot surfaces. No flames, no sparks. Remove all sources of ignition.

10.5 Incompatible materials

Strong acids. Strong bases.

10.6 Hazardous decomposition products

Vapour. Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

| | |
|--|---|
| Acute toxicity: | Not classified. |
| Skin corrosion/irritation: | Not classified. pH: 6 – 8 Based on available data; classification criteria not met. |
| Serious eye damage/irritation: | Not classified. pH: 6 – 8 Based on available data; classification criteria not met. |
| Respiratory/skin sensitisation: | Not classified. Based on available data; classification criteria not met. |
| Germ cell mutagenicity: | Not classified. Based on available data; classification criteria not met. |
| Carcinogenicity: | Not classified. Based on available data; classification criteria not met. |
| Reproductive toxicity: | Not classified. Based on available data; classification criteria not met. |
| Summary of evaluation of the CMR properties: | Not available. |
| STOT-single exposure: | Not classified. Based on available data; classification criteria not met. |
| STOT-repeated exposure: | Not classified. Based on available data; classification criteria not met. |
| Aspiration Hazard: | Not classified. Based on available data; classification criteria not met. |
| Other: | Not available. |

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11.2 Additional information on potential adverse human health effects and symptoms

| | |
|---------------|----------------|
| Eye contact: | Not available. |
| Skin contact: | Not available. |
| Inhalation: | Not available. |
| Ingestion: | Not available. |
| Aspiration: | Not available. |

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Ecology - general: The product is not considered harmful to aquatic organisms and has no long-term negative impact on the environment.

Ecology - water: Harmful to aquatic organisms, with long-term effects.

Acute aquatic toxicity: Not classified. Chronic aquatic toxicity: Not classified.

12.2 Persistence and degradability

May cause long-term adverse effects in the environment.

12.3 Bioaccumulative potential

Not established.

12.4 Mobility in soil

Not available.

12.5 Results of PBT and vPvB assessment

This substance/mixture does not meet the PBT criteria of the REACH Regulation, annex XIII. This substance/mixture does not meet the vPvB criteria of the REACH Regulation, annex XIII.

12.6 Other adverse effects

Additional Information: Prevent discharge into the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste treatment methods: Dispose of contents/packaging in accordance with the sorting instructions of an approved collection company.

Recommendations for disposal of products/packaging: Dispose of in a safe manner in accordance with local/national regulations.

Additional information: Handle empty containers/packages with care as the vapours left behind are flammable. Highly flammable vapours may accumulate in the container.

Ecology - waste materials: Avoid discharge into the environment.

SECTION 14: TRANSPORT INFORMATION

Transport information according to ADR/RID/IMDG/ICAO/IATA

14.1 UN Number

ADR/ RID(Land),IMDG(Sea), UN 1197
IATA/ICAO (Air) :

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14.2 UN proper shipping name

ADR/ RID(Land),IMDG(Sea), IATA/ICAO (Air) : EXTRACTS, FLAVOURING, LIQUID

14.3 Transport hazard class(es)

ADR/ RID(Land),IMDG(Sea), IATA/ICAO (Air) : 3

14.4 Packing group

ADR/ RID(Land),IMDG(Sea), IATA/ICAO (Air) : III

14.5 Environmental hazards

ADR/ RID(Land),IMDG(Sea), IATA/ICAO (Air) : Environmental hazard: No.
Marine pollution: No.

14.6 Special precautions for user

Road transport

Classification code (ADR): F1
Special provisions (ADR): 601
Limited quantities (ADR): 5I
Exempted quantities (ADR): E1
Packaging instructions (ADR): P001, IBC03, LP01, R001
Mixed packing requirements (ADR): MP19
Instructions for portable tanks and bulk containers (ADR): T2
Special provisions for portable tanks and bulk containers (ADR): TP1
Tank code (ADR): LGBF
Tank transport vehicle: FL
Transport category (ADR): 3
Special provisions for the transport – Packages (ADR): V12
Special provisions for the transport – Company (ADR): S2
Hazard identification number (Kemler no.): 30

Orange identification sign: 

Code for restrictions in tunnels (ADR): D/E

Transport on open sea

Special provisions (IMDG): 223, 955
Limited quantities (IMDG): 5 L
Exceptional quantities (IMDG): E1
Packing instructions (IMDG): P001, LP01
Packing instructions IBC (IMDG): IBC03
Instructions for tanks (IMDG): T2
Special provisions for tanks (IMDG): TP1
No. NS (Fire): F-E
No. NS (Spillage): S-D

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Stowage category (IMDG): A

Measures and observations (IMDG): Usually consist of alcoholic solutions. Miscibility with water depends upon the composition.

Air transport

PCA Expected quantities (IATA): E1

PCA Restricted Quantities (IATA): Y344

PCA limited quantity max. net quantity (IATA): 10L

PCA packaging requirements (IATA): 355

PCA max. net quantity (IATA): 60L

CLA packing requirement (IATA): 366

CLA max. net quantity (IATA): 220L

Special provisions (IATA): A3

ERG code (IATA): 3L

Transport on inland waters

Classification code (ADN): F1

Special provision (ADN): 601

Restricted quantities (ADN): 5 L

Exceptional quantities (ADN): E1

Required equipment (ADN): PP, EX, A

Ventilation (ADN): VE01

Number of blue cones/lights (ADN): 0

Railroad transport

Classification code (RID): F1

Special provision (RID): 601

Exceptional quantities (RID): E1

Packaging instructions (RID): P001, IBC03, LP01, R001

Special provisions for mixed packaging (RID): MP19

Instructions for portable tanks and bulk containers (RID): T2

Special provisions for portable tanks and bulk containers (RID): TP1

Tank codes for RID tanks (RID): LGBF

Transport category (RID): 3

Special provisions for transport - Packages (RID): W12

Express package (RID): CE4

Hazard identification number (RID): 30

14.7 Transport in bulk according to annex II of Marpol and the IBC Code

Not applicable.

14.8 Additional transport information

Not available.

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SECTION 15: REGULATORY INFORMATION

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

Hazard symbol:



Risk phrases:

R10 Flammable.

Safety phrases:

S15 Keep away from heat.

S16 Keep away from sources of ignition - No smoking.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

16.1 Changes since the previous version

Not applicable.

16.2 Abbreviations and acronyms used

| | |
|--------------|---|
| ADR: | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| CAS: | Chemical Abstracts Service (division of the American Chemical Society) |
| EC (number): | European Community (number) |
| IATA: | International Air Transport Association |
| ICAO: | International Civil Aviation Organization |
| IMDG: | International Maritime Code for Dangerous Goods |
| IUPAC: | International Union of Pure and Applied Chemistry |
| PBT: | Persistent, Bioaccumulative and Toxic substance |
| RID: | Regulations Concerning the International Transport of Dangerous Goods by Rail |
| STOT: | Specific Target Organ Toxicity |
| UN (number): | United Nations (number) |
| vPvB: | very Persistent and very Bioaccumulative |

16.3 Key literature references/sources for data

European Chemicals Agency.

<https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/>

16.4 Method of classification in case of mixture

Classification based on the main component.

16.5 Relevant Hazard statements and/or precautionary statements

For information on hazard and/or precautionary statements refer to section 2 up to and including section 15.

16.6 Training advisement

Not available

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16.7 Notice for user(s)

The information provided in this MSDS has been established in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015, amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council, on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769/EEC and Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC of the Commission.

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16.8 Department issuing MSDS

Quality Department

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