Lemon Essential Oil Bilovit

SAFETY DATA SHEET

Version 1.0 | Date of first issue: 2026-10-23 | Revision date: 2026-10-23

Prepared in accordance with Regulation (EC) No 1907/2006 (REACH), Annex II as amended by Commission Regulation (EU) 2020/878; classification under Regulation (EC) No 1272/2008 (CLP).

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name	Lemon Essential Oil Bilovit
Substance name	Lemon essential oil
Botanical name	Citrus limon (L.) Osbeck
INCI name	Citrus Limon Peel Oil
EC number	284-515-8
CAS number	84929-31-7
Country of origin	Italy

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

Relevant identified uses	Natural fragrance raw material
Uses advised against	Uses other than those indicated above without prior risk assessment.

1.3. Details of the supplier of the safety data sheet

Supplier	NMM Sp. z o. o. Bocheńska 3/17, 31-061 Kraków, Poland
Telephone	+48 12 446 64 97
E-mail address	kontakt@medpak.com.pl

1.4. Emergency telephone number

+48 12 446 64 99 – available Monday to Friday, 8:00–16:00 (CET).
Outside office hours: 112 – European emergency number (available 24/7).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

H226	Flammable liquid, Category 3
H304	Aspiration hazard, Category 1
H315	Skin irritation, Category 2
H317	Skin sensitisation, Category 1
H412	Hazardous to the aquatic environment - Chronic hazard, Category 3

2.2. Label elements

Hazard pictograms:

GHS02 – Flame GHS07 – Exclamation mark GHS08 – Health hazard

Signal word: Danger

Hazard statements:

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.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P102 Keep out of reach of children.

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

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

P331 Do NOT induce vomiting.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

2.3. Other hazards

The substance does not meet the criteria for PBT or vPvB according to Annex XIII of REACH. Based on available data, the substance has not been identified as having endocrine disrupting properties.

Has a phototoxic effect

If it comes into contact with the skin: avoid exposing that area to sunlight/UV rays

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Identifiers	Concentration	Classification under (EC) 1272/2008
Lemon essential oil	CAS: 84929-31-7 EC: 284-515-8	100 %	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Immediately call a POISON CENTER/doctor. Never give anything by mouth to an unconscious person.
Following inhalation	Remove the affected person to fresh air and keep at rest in a position comfortable for breathing.
Following skin contact	Remove contaminated clothing. Wash skin with plenty of water. If skin irritation or rash occurs, get medical advice/attention.
Following eye contact	In case of contact, rinse eyes cautiously with water.
Following ingestion	Rinse mouth with water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting (risk of aspiration).

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

Skin	Redness and skin irritation. May cause an allergic skin reaction.

Ingestion	Risk of aspiration pneumonia / pulmonary oedema after aspiration.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Foam. Dry powder. Carbon dioxide (CO_2).
Unsuitable extinguishing media	Direct water jet.

5.2. Special hazards arising from the substance or mixture

Toxic fumes may be formed.

5.3. Advice for firefighters

Do not attempt to take action without suitable protective equipment, self-contained breathing apparatus and full protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Emergency procedures	Ventilate the spillage area. Avoid contact with skin and eyes. Avoid breathing vapours/mist/spray.
Protective equipment	Do not attempt to take action without suitable protective equipment. For further information refer to section 8 "Exposure controls / personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Absorb the liquid with an absorbent and transfer to a suitable container. Notify the relevant authorities if the product enters sewers or watercourses.

6.4. Reference to other sections

For further information on waste disposal refer to section 13 "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions	Ensure adequate ventilation of the workplace. Keep away from heat. Use personal protective equipment. Avoid contact with skin and eyes. Avoid breathing vapours/mist/spray.
Hygiene measures	Wash work clothing before reuse. It must not be used outside the workplace. Do not eat, drink or smoke when handling the substance. Always wash hands after handling the substance.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	Store tightly closed in a well-ventilated place away from heat sources. Keep cool.
Technical measures	Keep away from ignition sources. No smoking.

7.3. Specific end use(s)

No additional information

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limits	No occupational exposure limit values (MAC/STEL/Ceiling – NDS/NDSCh/NDSP) have been established for the substance or its constituents under Polish regulations (Journal of Laws 2018, item 1286, as amended). Biological limit values: Not established. Recommended monitoring procedures: EN 689 (inhalation exposure assessment), EN 482 (requirements for measurement procedures).
8.1.2. DNEL / PNEC	Not applicable – no chemical safety assessment has been carried out.

8.2. Exposure controls

Engineering controls	Effective general/local ventilation; avoid aerosols, mists and excessive vapour emission.
Eye protection	Safety glasses to EN 166; a face shield where there is a splash risk.
Hand protection	Chemically resistant gloves to EN ISO 374; nitrile or neoprene recommended; breakthrough time per the glove manufacturer's data.
Skin protection	Work clothing; a chemically resistant protective apron where there is a spill risk.
Respiratory protection	Usually not required with good ventilation; for vapours a type A filter, for aerosols A/P2 or A/P3 in accordance with EN 14387.
Hygiene	Wash hands after work; do not eat/drink/smoke; remove contaminated clothing.
Environment	Do not allow entry to drains, water or soil; protect drains in the event of a spill.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	From pale yellow to dark green
Odour	Characteristic of fresh lemon pericarp
Melting point/freezing point	No data available
Boiling point or initial boiling point and boiling range	176 °C
Flammability	Flammable liquid, cat. 3
Lower and upper explosion limit	No data available
Flash point	43 °C
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Kinematic viscosity	1 - 3 mm^2/s (40 °C)
Solubility	Insoluble in water
Partition coefficient n-octanol/water	No data available
Vapour pressure	1.5 - 3 hPa (20 °C)
Density or relative density	0.850 - 0.858 g/cm^3 (20 °C)
Relative vapour density	No data available
Particle characteristics	No data available

9.2. Other information

Refractive index	1.473 - 1.476 (20 °C)
Optical activity	+57° to +66°

SECTION 10: Stability and reactivity

10.1. Reactivity	Flammable product. Vapours may form explosive mixtures with air. May react violently on contact with ignition sources, high temperature or strong oxidisers. Otherwise non-reactive under normal conditions.

10.2. Chemical stability	Stable under normal conditions.

10.3. Possibility of hazardous reactions	None under normal conditions of use.

10.4. Conditions to avoid	Avoid high temperature, open flames, sparks, ignition sources, direct sunlight, prolonged contact with air and conditions favouring oxidation of the product.

10.5. Incompatible materials	Strong oxidisers, strong acids, strong bases and materials reactive with organic substances.

10.6. Hazardous decomposition products	Under normal conditions of storage and use, no hazardous decomposition products are formed. During fire or thermal decomposition, carbon oxides (CO, CO_2) and irritating vapours may be released, among others.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	No data available to allow classification.
Acute toxicity (dermal)	No data available to allow classification.
Acute toxicity (inhalation)	No data available to allow classification.
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	No data available to allow classification.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	No data available to allow classification.
Carcinogenicity	No data available to allow classification.
Reproductive toxicity	No data available to allow classification.
STOT - single exposure	No data available to allow classification.
STOT - repeated exposure	No data available to allow classification.
Aspiration hazard	May be fatal if swallowed and enters airways.

11.2. Information on other hazards

Based on available data, the substance has not been identified as having endocrine disrupting properties with regard to human health.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity	Based on available data, the classification criteria are not met.
Chronic aquatic toxicity	Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

No additional information

12.3. Bioaccumulative potential

No additional information

12.4. Mobility in soil

No additional information

12.5. Results of PBT and vPvB assessment

The substance does not meet the criteria for PBT or vPvB according to Annex XIII of REACH (based on available data).

12.6. Endocrine disrupting properties

Based on available data, the substance has not been identified as having endocrine disrupting properties with regard to the environment.

12.7. Other adverse effects

No additional information.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	Hand over product waste and contaminated packaging to an authorised waste collector. Do not dispose of the product into sewers, surface waters or soil. Comply with applicable local, national and EU waste management regulations.
Additional information	Emptied packaging may contain product residues and vapours; handle it with care.

SECTION 14: Transport information

	ADR	IMDG	IATA	ADN	RID
14.1. UN number	UN 1197	UN 1197	UN 1197	UN 1197	UN 1197
14.2. UN proper shipping name	EXTRACTS, LIQUID, for flavour or aroma	EXTRACTS, LIQUID, for flavour or aroma	EXTRACTS, LIQUID, for flavour or aroma	EXTRACTS, LIQUID, for flavour or aroma	EXTRACTS, LIQUID, for flavour or aroma
14.3. Transport hazard class(es)	3	3	3	3	3
14.4. Packing group	III	III	III	III	III
14.5. Environmental hazards	No	No	No	No	No

14.6. Special precautions for user

Not specified. See sections 7 and 8.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

• Lemon essential oil is not listed in: REACH Candidate List (SVHC).

• Lemon essential oil is not listed in: Annex XIV to REACH (Authorisation List).

• Lemon essential oil is not listed in: Regulation (EU) No 649/2012 (PIC), Annex I.

• Lemon essential oil is not listed in: Regulation (EU) 2019/1021 on persistent organic pollutants (POPs), Annex I.

• Regulation (EC) No 1907/2006 (REACH), Annex XVII, entry 3 – the substance meets the criteria; not to be used in ornamental articles intended to produce light or colour effects by means of different phases, in tricks and jokes, or in games for one or more participants.

• Directive 2012/18/EU of the European Parliament and of the Council (Seveso III), Annex I Part 1 – hazard category: P5c.

• Regulation of the Minister of Development of 29 January 2016 on the types and quantities of hazardous substances present in an establishment that determine its classification as a lower-tier or upper-tier establishment (Journal of Laws 2016 item 138).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms:

Flam. Liq. 3	Flammable liquid, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic hazard, Category 3

Full text of H-statements used in the SDS:

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.
H412	Harmful to aquatic life with long lasting effects.

Legal basis for the SDS and sources of data:

EU legislation:

• Regulation (EC) No 1907/2006 of the European Parliament and of the Council (REACH), as amended.

• Commission Regulation (EU) 2020/878 amending Annex II to the REACH Regulation.

• Regulation (EC) No 1272/2008 of the European Parliament and of the Council (CLP), as amended.

• Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

• Directive 2008/98/EC of the European Parliament and of the Council on waste.

• European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), RID Regulations, ADN Agreement, IMDG Code, IATA-DGR – as currently in force.

Polish legislation:

• Act of 25 February 2011 on chemical substances and their mixtures (Journal of Laws 2011 No 63 item 322, as amended).

• Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on maximum admissible concentrations and intensities of agents harmful to health in the working environment (Journal of Laws 2018 item 1286, as amended).

• Regulation of the Minister of Health of 30 December 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal of Laws 2005 No 11 item 86, as amended).

• Regulation of the Minister of Health of 2 February 2011 on testing and measurement of agents harmful to health in the working environment (Journal of Laws 2011 No 33 item 166, as amended).

• Act of 19 August 2011 on the transport of dangerous goods (Journal of Laws 2011 No 227 item 1367, as amended).

• Act of 14 December 2012 on waste (Journal of Laws 2013 item 21, as amended).

• Regulation of the Minister of Climate of 2 January 2020 on the waste catalogue (Journal of Laws 2020 item 10).

• Act of 13 June 2013 on packaging and packaging waste management (Journal of Laws 2013 item 888, as amended).

Sources of data:

• Classification and Labelling Inventory (C&L Inventory), European Chemicals Agency (ECHA).

• Technical documentation and specification of the substance supplier.

Revision history:

Version	Date	Changes
1.0	2026-10-23	First issue of the safety data sheet.

Classification method:

Classification based on notifications to the Classification and Labelling Inventory (C&L Inventory, ECHA) and on data from the substance supplier.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should therefore not be construed as guaranteeing any specific property of the product.