



Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 20.07.2026

Version number 1.10 (replaces version 1.09)

Revision: 09.07.2026

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

· **1.1 Product identifier**

· **Trade name:** *Lime Oil Distilled 5-fold (MCI Ref. 2026.1050)*

· **Chemical Identification:** *Lime (Citrus aurantifolia), ext., (lime oil terpenless)*

· **Article number:** 2006#0113

· **CAS Number:**

90063-52-8

· **EC number:**

290-010-3

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

No further relevant information available.

· **Application of the substance / the mixture**

Flavours/Fragrances

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

MCI Miritz Citrus Intercontinental GmbH & Co. KG

Citrusstr. 3

D-37318 Kirchgandern

Tel: 0049-36081-621-0

e-mail: info@miritz.de

MCI Miritz Citrus GmbH & Co. KG

Citrusstr. 3

D-37318 Kirchgandern

Tel: 0049-36081-621-0

e-mail: info@miritz.de

MCI Miritz Citrus Ingredients LLC

28 Railroad Avenue

Warwick, NY 10990

USA

· **Further information obtainable from:**

Department Regulatory Affairs

Tel.: 0049-36081-621-0

info@miritz.de

· **1.4 Emergency telephone number:**

MCI Miritz Germany: 0049-(0)-170-9131244

Chemtrec USA: 001-1-800-424-9300

Emergency Number China: 0086-532-8388-9090

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

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

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· **Hazard pictograms**

GHS07 GHS08 GHS09

· **Signal word** Danger· **Hazard-determining components of labelling:**

Terpinolene
l.-beta.-Bisabolene
(R)-p-mentha-1,8-diene
4-Carvomenthenol
beta-Caryophyllene
Neryl acetate

Citral
Linalool
Geranyl acetate
p-Mentha-1,3-diene

· **Hazard statements**

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection / face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P321 Specific treatment (see on this label).
P331 Do NOT induce vomiting.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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 3: Composition/information on ingredients

· **3.1 Substances**· **CAS No. / Description**90063-52-8 Lime (*Citrus aurantifolia*) extract (quality not registered under REACH)· **Identification number(s)**

EINECS CAS 90063-52-8

EINECS 290-010-3

TSCA CAS 68916-84-7

Lime (*Citrus aurantifolia*), ext., (lime oil terpenless)· **EC number:** 290-010-3· **Additional information:** For the wording of the listed hazard phrases refer to section 16.· **Acute toxicity estimate (ATE) values** LD50 oral: 4,300 mg/kg

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Dangerous components:		
CAS: 98-55-5 EINECS: 202-680-6	<i>alpha-Terpineol</i> ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319 ATE: LD50 oral: 4,300 mg/kg	25-50%
CAS: 586-62-9 EINECS: 209-578-0	<i>Terpinolene</i> ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1B, H317 ATE: LD50 oral: 3,775 mg/kg	2.5-10%
CAS: 495-61-4	<i>l-beta-Bisabolene</i> ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Skin Sens. 1B, H317 ATE: LD50 inhalative: 1.5 mg/kg	2.5-10%
CAS: 5989-27-5 EINECS: 227-813-5	<i>(R)-p-mentha-1,8-diene</i> ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; ⚠ Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 3, H412	2.5-10%
CAS: 99-85-4 EINECS: 202-794-6	<i>p-Mentha-1,4-diene</i> ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411 ATE: LD50 oral: 3,650 mg/kg	2.5-10%
CAS: 138-87-4 EINECS: 205-342-6	<i>p-Menth-8-en-1-ol</i> ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319 ATE: LD50 oral: 4,300 mg/kg	2.5-10%
CAS: 502-61-4 EINECS: 207-948-6	<i>(E,E)-alpha-Farnesene</i> ⚠ Asp. Tox. 1, H304	2.5-10%
CAS: 562-74-3 EINECS: 209-235-5	<i>4-Carvomenthenol</i> ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H336 ATE: LD50 oral: 1,300 mg/kg LD50 inhalative: 1.5 mg/kg	2.5-10%
CAS: 13474-59-4	<i>alpha-Bergamoten</i> ⚠ Asp. Tox. 1, H304	2.5-10%
CAS: 87-44-5 EINECS: 201-746-1	<i>beta-Caryophyllene</i> ⚠ Asp. Tox. 1, H304; ⚠ Skin Sens. 1B, H317	1-2.5%
CAS: 141-12-8 EINECS: 205-459-2	<i>Neryl acetate</i> ⚠ Skin Sens. 1B, H317	≤1%
CAS: 5392-40-5 EINECS: 226-394-6	<i>Citral</i> ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	≤1%
CAS: 78-70-6 EINECS: 201-134-4	<i>Linalool</i> ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317 ATE: LD50 oral: 2,790 mg/kg	≤1%
CAS: 99-87-6 EINECS: 202-796-7	<i>p-Cymene</i> ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 3, H331; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411 ATE: LD50 oral: 4,750 mg/kg LD50 inhalative: 9.7 mg/kg LC50/4 h inhalative: 3 mg/l	≤1%
CAS: 105-87-3 EINECS: 203-341-5	<i>Geranyl acetate</i> ⚠ Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 3, H412	≤1%
CAS: 99-86-5 EINECS: 202-795-1	<i>p-Mentha-1,3-diene</i> ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Eye Irrit. 2, H319; Skin Sens. 1, H317 ATE: LD50 oral: 1,680 mg/kg	≤1%

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CAS: 112-54-9 EINECS: 203-983-6	Lauric aldehyde ⚠ Aquatic Chronic 2, H411; ⚠ Skin Sens. 1B, H317	≤1%
CAS: 106-23-0 EINECS: 203-376-6	Citronellal ⚠ Skin Irrit. 2, H315; ⚠ Eye Irrit. 2, H319; ⚠ Skin Sens. 1B, H317 ATE: LD50 oral: 2,500 mg/kg	≤1%
CAS: 470-82-6 EINECS: 207-431-5	Eucalyptol ⚠ Flam. Liq. 3, H226; ⚠ Eye Irrit. 2, H319; ⚠ Skin Sens. 1B, H317 ATE: LD50 oral: 2,480 mg/kg	≤1%
CAS: 80-56-8 EINECS: 201-291-9	alpha-Pinene ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; ⚠ Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; ⚠ Skin Irrit. 2, H315; ⚠ Skin Sens. 1B, H317 ATE: LD50 oral: 500 mg/kg	≤1%
CAS: 106-24-1 EINECS: 203-377-1	Geraniol ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; ⚠ Skin Sens. 1, H317 ATE: LD50 oral: 3,600 mg/kg	≤1%
CAS: 123-35-3 EINECS: 204-622-5	Myrcene ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; ⚠ Eye Irrit. 2, H319	≤1%
CAS: 127-91-3 EINECS: 204-872-5	beta-Pinene ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; ⚠ Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; ⚠ Skin Sens. 1B, H317	≤1%

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

If health disorder happens, call for medical help immediately.

Immediately remove any clothing soiled by the product.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Do not induce vomiting; call for medical help immediately.

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 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO₂, alcohol resistant foam, powder, water spray.

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 full jet to prevent fire spreading.

5.3 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

Additional information

Cool endangered receptacles with water spray.

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Collect contaminated fire fighting water separately. It must not enter the sewage system.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Follow safety measures in chapter 7 and 8.
- **6.2 Environmental precautions:**
Do not allow to penetrate the ground/soil.
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Wipe up little amounts with absorbent material like cloth or pulp.
Water and cleansing agent
Absorb with incombustible liquid-binding material (sand, diatomite, universal binders).
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **6.4 Reference to other sections**
Keep ignition source away, do not smoke and avoid flames.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
personal protection equipment see point 8.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**
Fumes can combine with air to form an explosive mixture.
Moistened solids (e.g. cloth, pulp, filter panel, binder) has to be stored hermetically sealed and/or watered and proper disposed (see chapter 9 and 13).
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store only in unopened original receptacles.
Provide solvent resistant, sealed floor.
- **Information about storage in one common storage facility:** Store away from oxidising agents.
- **Further information about storage conditions:**
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **Storage class:** 10
- **Classification according to Betriebssicherheitsverordnung (BetrSichV) -**
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· **Ingredients with limit values that require monitoring at the workplace:**

5989-27-5 (R)-p-mentha-1,8-diene

AGW (Germany)	Long-term value: 28 mg/m ³ , 5 ppm 4(II); DFG, H, Sh, Y
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106-24-1 Geraniol

MAK (Germany) | Dampf und Aerosol; vgl. Abschn. IV

 · **Additional information:** The lists valid during the making were used as basis.

 · **8.2 Exposure controls**

 · **Appropriate engineering controls** No further data; see section 7.

 · **Individual protection measures, such as personal protective equipment**

 · **General protective and hygienic measures:**

Use personal protective equipment depending on concentration and amount of hazardous substance.

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 eyes and skin.

 · **Respiratory protection:**

Suitable respiratory protection: filter class A2 (brown colour).

Use the rules for application of respiratory protection systems.

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

 · **Hand protection**

Preventive skin protection by use of skin-protecting agents is recommended.



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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.

 · **Penetration time of glove material**

> 480 minutes at layer thickness of 0,425 millimeter (Sol-Vex 37-695/Ansell).

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

 · **For the permanent contact gloves made of the following materials are suitable:**

Nitrile rubber, NBR

E.g. following product: Sol-Vex (37-695) from Ansell.

 · **As protection from splashes gloves made of the following materials are suitable:** Nitrile rubber, NBR

 · **Eye/face protection**

Safety glasses



Tightly sealed goggles according to EN 166:2001

 · **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

 · **9.1 Information on basic physical and chemical properties**

 · **General Information**

 · **Physical state**

Liquid

 · **Colour:**

Yellow

 · **Odour:**

Fruit specific

 · **Odour threshold:**

Not determined

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· Melting point/freezing point:	Undetermined
· Boiling point or initial boiling point and boiling range	>35 °C
· Flammability	Not applicable
· Lower and upper explosion limit	
· Lower:	Limonene : 0,7 Vol%; 39 g/m ³
· Upper:	Limonene: 6,1 Vol%; 345 g/m ³
· Flash point:	75 °C (ASTM D7094)
· Auto-ignition temperature:	255 °C
· Decomposition temperature:	Not determined
· pH	Not determined
· Viscosity:	
· Kinematic viscosity at 40 °C	<18 mm ² /s
· Dynamic:	Not determined
· Solubility	
· water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined
· Vapour pressure:	Not determined
· Density and/or relative density	
· Density at 20 °C:	0.9 g/cm ³
· Relative density	Not determined
· Vapour density	Not determined
· 9.2 Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting; but in case of unpropitious storing conditions (air admission, heat accumulation) selfignition is possible for moistened solids (e.g. cloth, pulp, filter panels, binder).
· Explosive properties:	Product does not present an explosion hazard.
· Change in condition	
· Evaporation rate	Not determined
· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

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SECTION 10: 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 selfigniting; but in case of unpropitious storing conditions (air admission, heat accumulation) selfignition 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 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

98-55-5 alpha-Terpineol

Oral	LD50	4,300 mg/kg (ATE)
		4,300 mg/kg (rat)

586-62-9 Terpinolene

Oral	LD50	3,775 mg/kg (ATE)
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5989-27-5 (R)-p-mentha-1,8-diene

Oral	LD50	4,400 mg/kg (rat)
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99-85-4 p-Mentha-1,4-diene

Oral	LD50	3,650 mg/kg (ATE)
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138-87-4 p-Menth-8-en-1-ol

Oral	LD50	4,300 mg/kg (ATE)
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562-74-3 4-Carvomenthenol

Oral	LD50	1,300 mg/kg (ATE)
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5392-40-5 Citral

Oral	LD50	4,960 mg/kg (rat)
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78-70-6 Linalool

Oral	LD50	2,790 mg/kg (ATE)
		2,790 mg/kg (rat)
Inhalative	LD50	5,610 mg/kg (rabbit)

99-87-6 p-Cymene

Oral	LD50	4,750 mg/kg (ATE)
Inhalative	LD50	9.7 mg/kg (ATE)
	LC50/4 h	3 mg/l (ATE)

112-31-2 Decanal

Oral	LD50	3,730 mg/kg (ATE)
		3,730 mg/kg (rat)
Inhalative	LD50	5,040 mg/kg (rabbit)

99-86-5 p-Mentha-1,3-diene

Oral	LD50	1,680 mg/kg (ATE)
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112-54-9 Lauric aldehyde		
Oral	LD50	23,000 mg/kg (rat)
106-23-0 Citronellal		
Oral	LD50	2,500 mg/kg (ATE)
470-67-7 1,4-Cineole		
Oral	LD50	3,100 mg/kg (ATE)
470-82-6 Eucalyptol		
Oral	LD50	2,480 mg/kg (ATE)
80-56-8 alpha-Pinene		
Oral	LD50	500 mg/kg (ATE)
106-24-1 Geraniol		
Oral	LD50	3,600 mg/kg (ATE)
111-87-5 1-Octanol		
Oral	LD50	1,790 mg/kg (mouse)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Sensitisation:** May cause an allergic skin reaction.
- **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.
- **Additional toxicological information:**
- **Acute effects (acute toxicity, irritation and corrosivity)** Aspiration may cause lung damages.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **12.6 Endocrine disrupting properties**
- The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Remark:** Toxic for fish
- **Remark:** Quantitative data according to the ecological effects are not available.
- **Additional ecological information:**
- **General notes:**
- Danger to drinking water if even small quantities leak into the ground.
- Do not allow product to reach ground water, water course or sewage system.
- Also poisonous for fish and plankton in water bodies.
- Water hazard class 3 (German regulation) (AwSV 3821; CAS 90063-52-8): highly hazardous to water.

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Toxic for aquatic organisms

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SECTION 13: 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 together with household garbage. Do not allow product to reach 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 packagings 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 14: Transport information

14.1 UN number or ID number

ADR, IMDG, IATA

UN3082

14.2 UN proper shipping name

ADR

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d-limonene, p-Mentha-1,4-diene)

IMDG

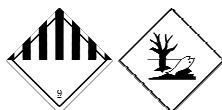
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d-limonene, p-Mentha-1,4-diene), MARINE POLLUTANT

IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d-limonene, p-Mentha-1,4-diene)

14.3 Transport hazard class(es)

ADR



Class

9 (M6) Miscellaneous dangerous substances and articles.

Label

9

IMDG, IATA



Class

9 Miscellaneous dangerous substances and articles.

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according to Regulation (EC) No 1907/2006, Article 31

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Trade name: Lime Oil Distilled 5-fold (MCI Ref. 2026.1050)

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· Label	9
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards: · Marine pollutant:	Product contains environmentally hazardous substances: Terpinolene Yes Symbol (fish and tree)
· Special marking (ADR): · Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
· 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category	Warning: Miscellaneous dangerous substances and articles. 90 F-A,S-F A
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable
· Transport/Additional information:	
· ADR · 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
· Transport category · Tunnel restriction code	3 (-)
· 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 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (D-LIMONENE, P-MENTHA-1,4-DIENE), 9, III

SECTION 15: 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

· Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t

· Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

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

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

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· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:**· Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

· Breakdown regulations: Void.**· Technical instructions (air):**

Class	Share in %
NK	2.5-10

· Waterhazard class:

Water hazard class 3 (German regulation) (AwSV 3821; CAS 90063-52-8): highly hazardous to water.

· Other regulations, limitations and prohibitive regulations

Comply with the rules and regulations of skin protection.

Comply with the rules and regulations of respiratory protection.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**SECTION 16: Other 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.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· Relevant phrases

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

· Recommended restriction of use For industrial application only.**· Department issuing SDS:** Regulatory Affairs**· Contact:**

Department Regulatory Affairs

Tel.: 0049-36081-621-0

info@miritz.de

· Date of previous version: 10.06.2026**· Version number of previous version:** 1.09

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Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: 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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1B: Skin sensitisation – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

*** Data compared to the previous version altered.**

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