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# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 08.03.2023

Version number 3.00 (replaces version 2.00)

Revision: 08.03.2023

# 1 Identification of the substance/mixture and of the company/undertaking

- · Product identifier
- · Trade name: Oleum "Melissae" rectific.
- · Article number: G470
- · Registration number The substance is exempt from REACH-registration.
- · Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture Ingredient for pharmaceutical drugs
- · Uses advised against No relevant information available.
- · Details of the supplier of the safety data sheet

Manufacturer/Supplier: CAELO Caesar & Loretz GmbH Herderstr. 31 D-40721 Hilden GERMANY

 Further information obtainable from: E-mail: info@caelo.de Tel.: +49210349940 (during regular opening hours)
 Emergency telephone number: Poison Information Center Bonn Venusberg-Campus 1, 53127 Bonn

#### 2 Hazards identification

Tel: +49 (0) 228-192400

# Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008
- Skin Irrit. 2H315 Causes skin irritation.Eye Dam. 1H318 Causes serious eye damage.Skin Sens. 1H317 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.

· Label elements

- Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the CLP regulation.
- Hazard pictograms



· Signal word Danger



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## Trade name: Oleum "Melissae" rectific.

<ul> <li>Hazard statements H315 Causes skin ir</li> </ul>		. of page 1)
H315 Causes skin ir		
H318 Causes seriou		
	allergic skin reaction.	
	swallowed and enters airways.	
	tic life with long lasting effects.	
<ul> <li>Precautionary state</li> </ul>		
	f medical advice is needed, have product container or label at hand.	
	Keep out of reach of children.	
P103 F	Read carefully and follow all instructions.	
	F SWALLOWED: Immediately call a POISON CENTER/ doctor.	
	Specific treatment (see on this label).	
	Do NOT induce vomiting.	
	F IN EYES: Rinse cautiously with water for several minutes. Remove contact I	enses, if
p	present and easy to do. Continue rinsing.	
	ake off contaminated clothing and wash it before reuse.	
	Store locked up.	
	Dispose of contents/container in accordance with local/regional/national/interna	ational
	egulations.	
Other hazards		
Results of PBT and	d vPvB assessment	
<ul> <li>• PBT: Not applicable</li> </ul>		
· vPvB: Not applicabl	le.	
	ndocrine-disrupting properties Not applicable.	
2 Composition/in		
- 5 Composition/In	formation on ingredients	
-	formation on ingredients	
Mixtures		
Mixtures Description: Mixtur	e of substances listed below with nonhazardous additions.	
Mixtures	e of substances listed below with nonhazardous additions.	
Mixtures Description: Mixtur	e of substances listed below with nonhazardous additions.	25-50%
Mixtures Description: Mixtur Dangerous compo CAS: 106-23-0	e of substances listed below with nonhazardous additions. nents: citronellal	25-50%
Mixtures Description: Mixtur Dangerous compo CAS: 106-23-0	e of substances listed below with nonhazardous additions. nents:	25-50%
Mixtures Description: Mixtur Dangerous compo CAS: 106-23-0 EINECS: 203-376-6	e of substances listed below with nonhazardous additions. <b>nents:</b> citronellal Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
Mixtures Description: Mixtur Dangerous compo CAS: 106-23-0 EINECS: 203-376-6 CAS: 5989-27-5	e of substances listed below with nonhazardous additions. <b>nents:</b> citronellal Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412 (R)-p-mentha-1,8-diene	25-50% 25-50%
Mixtures Description: Mixtur Dangerous compo CAS: 106-23-0 EINECS: 203-376-6 CAS: 5989-27-5	e of substances listed below with nonhazardous additions. nents: citronellal Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412 (R)-p-mentha-1,8-diene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Skin Irrit. 2,	
Mixtures Description: Mixtur Dangerous compo CAS: 106-23-0 EINECS: 203-376-6 CAS: 5989-27-5 EINECS: 227-813-5	e of substances listed below with nonhazardous additions. nents: citronellal Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412 (R)-p-mentha-1,8-diene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 3, H412	25-50%
Mixtures Description: Mixtur Dangerous compo CAS: 106-23-0 EINECS: 203-376-6 CAS: 5989-27-5 EINECS: 227-813-5 CAS: 106-24-1	e of substances listed below with nonhazardous additions. nents: citronellal Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412 (R)-p-mentha-1,8-diene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 3, H412 geraniol	
Mixtures Description: Mixtur Dangerous compo CAS: 106-23-0 EINECS: 203-376-6 CAS: 5989-27-5 EINECS: 227-813-5 CAS: 106-24-1	e of substances listed below with nonhazardous additions. nents: citronellal Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412 (R)-p-mentha-1,8-diene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 3, H412	25-50% 10-25%
Mixtures Description: Mixtur Dangerous compo CAS: 106-23-0 EINECS: 203-376-6 CAS: 5989-27-5 EINECS: 227-813-5 CAS: 106-24-1	e of substances listed below with nonhazardous additions. nents: citronellal Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412 (R)-p-mentha-1,8-diene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 3, H412 geraniol	25-50%
Mixtures Description: Mixtur Dangerous compo CAS: 106-23-0 EINECS: 203-376-6 CAS: 5989-27-5 EINECS: 227-813-5 CAS: 106-24-1 EINECS: 203-377-1 CAS: 106-22-9	e of substances listed below with nonhazardous additions. <b>nents:</b> citronellal Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412 (R)-p-mentha-1,8-diene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 3, H412 geraniol Skin Sens. 1A, H317 dl-Citronellol	25-50% 10-25%
Mixtures Description: Mixtur Dangerous compo CAS: 106-23-0 EINECS: 203-376-6 CAS: 5989-27-5 EINECS: 227-813-5 CAS: 106-24-1 EINECS: 203-377-1 CAS: 106-22-9 EINECS: 203-375-0	e of substances listed below with nonhazardous additions. <b>nents:</b> citronellal Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412 (R)-p-mentha-1,8-diene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 3, H412 geraniol Skin Sens. 1A, H317 dl-Citronellol Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	25-50% 10-25% 2.5-10%
Mixtures Description: Mixtur Dangerous compo CAS: 106-23-0 EINECS: 203-376-6 CAS: 5989-27-5 EINECS: 227-813-5 CAS: 106-24-1 EINECS: 203-377-1 CAS: 106-22-9 EINECS: 203-375-0 CAS: 5392-40-5	e of substances listed below with nonhazardous additions. <b>nents:</b> citronellal Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412 (R)-p-mentha-1,8-diene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 3, H412 geraniol Skin Sens. 1A, H317 dl-Citronellol Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 Citral	25-50% 10-25%
Mixtures Description: Mixtur Dangerous compo CAS: 106-23-0 EINECS: 203-376-6 CAS: 5989-27-5 EINECS: 227-813-5 CAS: 106-24-1 EINECS: 203-377-1 CAS: 106-22-9 EINECS: 203-375-0 CAS: 5392-40-5 EINECS: 226-394-6	e of substances listed below with nonhazardous additions. <b>nents:</b> citronellal Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412 (R)-p-mentha-1,8-diene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 3, H412 geraniol Skin Sens. 1A, H317 dl-Citronellol Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 Citral Skin Irrit. 2, H315; Skin Sens. 1, H317	25-50% 10-25% 2.5-10% 2.5-10%
Mixtures Description: Mixtur Dangerous compo CAS: 106-23-0 EINECS: 203-376-6 CAS: 5989-27-5 EINECS: 227-813-5 CAS: 106-24-1 EINECS: 203-377-1 CAS: 106-22-9 EINECS: 203-375-0 CAS: 5392-40-5 EINECS: 226-394-6 CAS: 80-56-8	e of substances listed below with nonhazardous additions. <b>nents:</b> citronellal Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412 (R)-p-mentha-1,8-diene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 3, H412 geraniol Skin Sens. 1A, H317 dl-Citronellol Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 Citral Skin Irrit. 2, H315; Skin Sens. 1, H317 alpha-Pinene	25-50% 10-25% 2.5-10%
Mixtures Description: Mixtur Dangerous compo CAS: 106-23-0 EINECS: 203-376-6 CAS: 5989-27-5 EINECS: 227-813-5 CAS: 106-24-1 EINECS: 203-377-1 CAS: 106-22-9 EINECS: 203-375-0 CAS: 5392-40-5 EINECS: 226-394-6 CAS: 80-56-8	e of substances listed below with nonhazardous additions. <b>nents:</b> citronellal Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412 (R)-p-mentha-1,8-diene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 3, H412 geraniol Skin Sens. 1A, H317 dl-Citronellol Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 Citral Skin Irrit. 2, H315; Skin Sens. 1, H317 alpha-Pinene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic	25-50% 10-25% 2.5-10% 2.5-10%
Mixtures Description: Mixtur Dangerous compo CAS: 106-23-0 EINECS: 203-376-6 CAS: 5989-27-5 EINECS: 227-813-5 CAS: 106-24-1 EINECS: 203-377-1 CAS: 106-22-9 EINECS: 203-375-0 CAS: 5392-40-5 EINECS: 226-394-6 CAS: 80-56-8 EINECS: 201-291-9	e of substances listed below with nonhazardous additions. <b>nents:</b> citronellal Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412 (R)-p-mentha-1,8-diene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 3, H412 geraniol Skin Sens. 1A, H317 dl-Citronellol Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 Citral Skin Irrit. 2, H315; Skin Sens. 1, H317 alpha-Pinene	25-50% 10-25% 2.5-10% 2.5-10%

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#### Trade name: Oleum "Melissae" rectific.

4 First aid measures

- · Description of first aid measures
- General information: 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. Then consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

## 5 Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents: CO2, powder or water spray. Fight larger fire with alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- · Protective equipment: In case of fire wear suitable protective clothes and respiratory protection.
- Additional information
- Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.

#### 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
- Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.
- 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.

Treat with 2 % sodium hydroxide solution.

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.

# 7 Handling and storage

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

(Contd. on page 4)



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#### Trade name: Oleum "Melissae" rectific.

- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles:
- Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store receptacle in a well ventilated area.
- Storage class: TRHS 510: 10 Combustible liquids
- Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

- · Control parameters
- Ingredients with limit values that require monitoring at the workplace:
   CAS: 5392-40-5 Citral
- OEL Long-term value: 5 ppm
- Inhalable fraction and vapour
- Additional information: The lists valid during the making were used as basis.
- Exposure controls
- Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as 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: Dust protection mask.
- · Hand protection Protective gloves
- · Material of 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

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

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

- · Eye/face protection Tightly sealed goggles
- 9 Physical and chemical properties
- Information on basic physical and chemical properties
- General Information
   Physical state
- · Colour:
- · Odour:

Fluid Yellowish Characteristic (Contd. of page 3)

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## Trade name: Oleum "Melissae" rectific.

· Odour threshold:	(Contd. of page 4) Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling	Undetermined.
range	173 °C
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	1.2 Vol %
· Upper:	4.5 Vol %
· Flash point:	60 °C
<sup>·</sup> Decomposition temperature:	Not determined.
· pH	Not determined.
-	Not determined.
Viscosity: Kinematia viscosity	Not determined
Kinematic viscosity	Not determined.
· Dynamic:	Not determined.
Solubility	Not windly on difficult to write
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:	0.862–0.872 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not determined.
• Other information	
Appearance:	
Form:	Fluid
Important information on protection of health	
and environment, and on safety.	
• Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
· Solvent content:	r roddet does not present an explosion nazard.
VOC (EC)	25–50 %
· Solids content:	0.0 %
Change in condition	0.0 %
· Evaporation rate	Not determined.
	Not determined.
Information with regard to physical hazard	
classes	
· Explosives	Void
	Void
<sup>·</sup> Flammable gases	Void
-	Void
· Aerosols	Void
	Void
· Oxidising gases	Void
	Void
· Gases under pressure	Void
·	Void
	(Contd. on page 6)

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Flammable liquids       Void         Void       Void         Flammable solids       Void         Void       Void         Self-reactive substances and mixtures       Void         Void       Void         Pyrophoric liquids       Void         Void       Void         Pyrophoric solids       Void         Self-heating substances and mixtures       Void         Substances and mixtures, which emit flammable       Void         gases in contact with water       Void         Void       Void         Oxidising liquids       Void         Void       Void         Organic peroxides       Void         Void       Void         Void       Void         Void       Void         Obsensitised explosives       Void			(Contd. of page 5)
Flammable solids       Void         Void       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       Void         gases in contact with water       Void         Void       Void         Oxidising liquids       Void         Void       Void         Organic peroxides       Void         Void       Void         Void       Void         Void       Void         Organic peroxides       Void         Void       Void         Void       Void         Void       Void	· Flammable liquids	Void	
Void         Self-reactive substances and mixtures       Void         Void       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         Void       Void         Poresensitised explosives       Void		Void	
Self-reactive substances and mixtures       Void         Void       Void         Pyrophoric liquids       Void         Void       Void         Pyrophoric solids       Void         Self-heating substances and mixtures       Void         Void       Void         Substances and mixtures, which emit flammable gases in contact with water       Void         Oxidising liquids       Void         Void       Void         Organic peroxides       Void         Void       Void         Void       Void         Void       Void         Void       Void         Organic peroxides       Void         Void       Void	<ul> <li>Flammable solids</li> </ul>	Void	
Void         Pyrophoric liquids       Void         Pyrophoric solids       Void         Void       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         Void       Void         Void       Void         Organic peroxides       Void         Void       Void         Void       Void         Void       Void         Void       Void         Void       Void         Organic peroxides       Void         Void       Void         Void       Void         Void       Void		Void	
<ul> <li>Pyrophoric liquids</li> <li>Pyrophoric solids</li> <li>Self-heating substances and mixtures</li> <li>Substances and mixtures, which emit flammable gases in contact with water</li> <li>Oxidising liquids</li> <li>Oxidising solids</li> <li>Organic peroxides</li> <li>Corrosive to metals</li> <li>Desensitised explosives</li> <li>Void</li> </ul>	<ul> <li>Self-reactive substances and mixtures</li> </ul>	Void	
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         Void       Void		Void	
<ul> <li>Pyrophoric solids</li> <li>Self-heating substances and mixtures</li> <li>Substances and mixtures, which emit flammable gases in contact with water</li> <li>Oxidising liquids</li> <li>Oxidising solids</li> <li>Organic peroxides</li> <li>Corrosive to metals</li> <li>Desensitised explosives</li> </ul>	· Pyrophoric liquids	Void	
Void         Self-heating substances and mixtures       Void         Void       Void         Substances and mixtures, which emit flammable       Void         gases in contact with water       Void         Oxidising liquids       Void         Void       Void         Oxidising solids       Void         Void       Void         Void       Void         Organic peroxides       Void         Void       Void		Void	
Void         Self-heating substances and mixtures       Void         Void       Void         Substances and mixtures, which emit flammable gases in contact with water       Void         Oxidising liquids       Void         Oxidising solids       Void         Void       Void         Void       Void         Organic peroxides       Void         Void       Void	· Pyrophoric solids	Void	
Void         Substances and mixtures, which emit flammable gases in contact with water       Void         gases in contact with water       Void         Void       Void         Oxidising liquids       Void         Void       Void         Oxidising solids       Void         Void       Void         Organic peroxides       Void         Void       Void         Void       Void         Void       Void         Void       Void         Void       Void		Void	
Void         Substances and mixtures, which emit flammable gases in contact with water       Void         gases in contact with water       Void         Void       Void         Oxidising liquids       Void         Void       Void         Oxidising solids       Void         Void       Void         Organic peroxides       Void         Void       Void         Void       Void         Void       Void         Void       Void         Void       Void	<ul> <li>Self-heating substances and mixtures</li> </ul>	Void	
gases in contact with water       Void         Oxidising liquids       Void         Oxidising solids       Void         Organic peroxides       Void         Corrosive to metals       Void         Void       Void		Void	
Void         Oxidising liquids       Void         Void       Void         Void       Void         Organic peroxides       Void         Void       Void	<ul> <li>Substances and mixtures, which emit flamm</li> </ul>	nable	
<ul> <li>Oxidising liquids</li> <li>Oxidising solids</li> <li>Organic peroxides</li> <li>Corrosive to metals</li> <li>Void</li> </ul>	gases in contact with water	Void	
Void         • Oxidising solids       Void         • Organic peroxides       Void         • Corrosive to metals       Void         • Desensitised explosives       Void	-	Void	
· Oxidising solids     Void       · Organic peroxides     Void       · Corrosive to metals     Void       · Desensitised explosives     Void	· Oxidising liquids	Void	
· Organic peroxides       Void         · Corrosive to metals       Void         · Desensitised explosives       Void		Void	
Organic peroxides     Void	Oxidising solids	Void	
Corrosive to metals       Void         Void       Void         Void       Void         Void       Void		Void	
Corrosive to metals     Void     Void     Void     Void     Void	Organic peroxides	Void	
· Desensitised explosives Void		Void	
· Desensitised explosives Void	<ul> <li>Corrosive to metals</li> </ul>	Void	
		Void	
Void	<ul> <li>Desensitised explosives</li> </ul>	Void	
		Void	

#### 10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- $\cdot$  Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

# <sup>\*</sup>11 Toxicological information

- · Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.
- · Skin corrosion/irritation Causes skin irritation.
- $\cdot$  Serious eye damage/irritation Causes serious eye damage.
- $\cdot$  Respiratory or skin sensitisation May cause an allergic skin reaction.
- $\cdot$  Germ cell mutagenicity Based on available data, the classification criteria are not met.
- $\cdot$  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.



# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 08.03.2023

Version number 3.00 (replaces version 2.00)

Revision: 08.03.2023

#### Trade name: Oleum "Melissae" rectific.

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

#### Information on other hazards

#### · Endocrine disrupting properties

On the basis of the available data, the substance does not meet the criteria for the identification of substances having properties of interference with the endocrine system, in accordance with Article 59, paragraph 1 of the REACH Regulation and the criteria established in the Delegated Regulation (EU) 2017 / 2100 of the Commission or in Commission Regulation (EU) 2018/605.

#### \*12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- $\cdot$  Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- Endocrine disrupting properties

Based on the available data, the substance does not meet the criteria for the identification of substances with properties affecting the endocrine system according to Article 59(1) of the REACH Regulation and the criteria of the Commission Delegated Regulation (EU) 2017/2100 or in the Commission Regulation (EU) 2018/605.

- · Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Must not reach sewage water or drainage ditch undiluted or unneutralised. Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

## 13 Disposal considerations

#### · Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to local regulations.

#### **14 Transport information**

- · UN number or ID number
- · ADR, IMDG, IATA
- · UN proper shipping name

UN1993

1993 FLAMMABLE LIQUID, N.O.S. ((R)-p-mentha-1,8diene, Pin-2(3)-ene), ENVIRONMENTALLY HAZARDOUS (Contd. on page 8)

IE

(Contd. of page 6)

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#### Trade name: Oleum "Melissae" rectific.

·IMDG	(Contd. of page 7) FLAMMABLE LIQUID, N.O.S. ((R)-p-mentha-1,8-diene, Pin-2(3)-ene), MARINE POLLUTANT
	Flammable liquid, n.o.s. ((R)-p-mentha-1,8-diene, Pin- 2(3)-ene)
<ul> <li>Transport hazard class(es)</li> </ul>	
· ADR, IMDG, IATA	
Class	3 Flammable liquids.
<sup>·</sup> Label	3
Packing group	
ADR, IMDG, IATA	
· Environmental hazards:	Product contains environmentally hazardous substances: (R)-p-mentha-1,8-diene
<ul> <li>Marine pollutant:</li> </ul>	Symbol (fish and tree)
• Special marking (ADR):	Symbol (fish and tree)
Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code)	
• EMS Number:	F-E,S-E
<ul> <li>Maritime transport in bulk according to IMO instruments</li> </ul>	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Transport category	3
Tunnel restriction code	D/E
·IMDG	
<ul> <li>Limited quantities (LQ)</li> <li>UN "Model Regulation":</li> </ul>	5L UN 1993 FLAMMABLE LIQUID, N.O.S. (DIPENTENE, ALPHA-PINENE), 3, III, ENVIRONMENTALLY HAZARDOUS

#### **15 Regulatory information**

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

- · LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Not listed
- · 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.

· National regulations:

• Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany) TRHS 510: 10 Combustible liquids

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

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#### Trade name: Oleum "Melissae" rectific.

16 Other information

The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended. Reasons for alterations This version replaces all old versions. **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. H319 Causes serious eye irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. Date of previous version: 07.03.2023 Version number of previous version: 2.00 Abbreviations and acronyms: 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) VOC: Volatile Organic Compounds (USA, EU) MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids - Category 3 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. 1A: Skin sensitisation - Category 1A Skin Sens. 1B: Skin sensitisation - Category 1B 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.