

Material Safety Data Sheet

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

CINEOLUM

EN

FORM-06-14-01 (V00)

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Publication: 08/04/2022

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

1.1 Product identifier

Product name: Cineole
Cineolum
Cineol
Cinéole
Cineol
N° CAS: 470-82-6
N° EC: 207-431-5

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: FRAVER NV
Keizershoek 336
2550 Kontich
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
Skin. Sens. 1B	H317

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.

H317 May cause an allergic skin reaction.

Precautionary statements: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

P210 No smoking.

P233 Keep container tightly closed.

P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/fumes/gas/mist/vapours/spray.

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Additional applicable label elements: Not applicable.

2.3 Other hazards

Contains Eucalyptol.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Product name: Cineole
IUPAC name: 1,3,3-trimethyl-2-oxabicyclo[2.2.2]octane
Synonyms: Eucalyptol
N° CAS: 470-82-6
N° EC: 207-431-5
Molecular Formula: $C_{10}H_{18}O$
Content: 100 %

3.2 Mixtures

Not applicable.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes: If in doubt, always call a doctor.
After inhalation: If the person in question is unconscious, place him/her in the lateral safety position. Supply fresh air; consult doctor in case of complaints.
After skin contact: Take off contaminated clothes. Wash with water for several minutes.
After eye contact: Wash abundantly with water (don't forget to remove contact lenses). Consult a doctor immediately if signs of irritation persist.
After ingestion: Do not induce vomiting. Consult a doctor showing him the product label.

4.2 Most important symptoms and effects, both acute and delayed

Not available.

4.3 Indication of any immediate medical attention and special treatment needed

Not available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: In case of fire, use water spray (or mist) and appropriate extinguishers (CO_2 , extinguishing powder, etc.).
Unsuitable extinguishing media: Never use a direct water jet.

5.2 Special hazards arising from the substance/mixture

Flammability class: the product is flammable.
In case of fire, may produce toxic fumes of carbon monoxide (CO) or carbon dioxide (CO_2). Exposure to decomposition products can pose health risks. Do not inhale the vapours.

5.3 Advice for firefighters

Surrounding fires: Collect contaminated fire fighting water separately. It may not enter the sewage system.
Protection against fire: Wear self-contained respiratory protective device.
Hazardous combustion products: Not available.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid inhaling vapours. Avoid all contact with skin and eyes. If necessary, have the personnel evacuated by trained operators equipped with protective equipment.

For emergency responders

Appropriate personal protective equipment will be necessary (see section 8).

6.2 Environmental precautions

Do not allow to enter sewers/surface or ground water. Notify authorities if the product enters sewers or public waters.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

6.4 Reference to other sections

For information on exposure controls and personal protection: See section 8.

For information on disposal: See section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions for safe handling:	Wash your hands after every use. Close the packaging after use. Avoid inhalation of vapors and contact with skin or eyes.
Personal protection:	For personal protective equipment, see section 8.
Technical protective measures:	Provide adequate ventilation. Provide safety showers and eye fountains.
Handling:	Handle in well ventilated areas.

7.2 Conditions for safe storage, including any incompatibilities

Storage:	Keep containers tightly closed. Always store in appropriate packaging (same material as the original).
Conditions for safe storage, including any incompatibilities:	Store in cool and dry conditions.
Storage – away from:	Keep away from sources of heat and protected from extreme temperatures.

7.3 Specific end use(s)

Active Pharmaceutical Ingredient or Excipient

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with limit values that require monitoring at the workplace: Not required.

8.2 Exposure controls

Appropriate engineering control

Avoid contact with eyes, skin or clothing. Do not ingest. Avoid contact with food, drink. do not eat, drink or smoke during use.

Individual protection measures

Eye/face protection:	Tightly sealed goggles.
Skin protection:	Protective work clothing.
Hand protection:	Wear gloves. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

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Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards: Not determined.

Environmental exposure control

Not available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Clear colourless liquid
Odour:	Fresh, camphor.
Odour threshold:	Not available.
pH:	Not available.
Melting/freezing point:	-1.3°C (101.325 kPa)
Initial boiling point:	Not available.
Boiling range:	174-177 °C (345.2-350.6 °F)
Flash point:	49 °C (120.2 °F)
Evaporation rate:	Not available.
Flammability (solid/gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Relative density:	0.922-0.927
Solubility:	Miscible with alcohol and with methylene chloride.
Solubility in water:	Practically insoluble in water.
Partition coefficient (n-octanol/water):	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not available.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Oxidising properties:	Not available.

9.2 Other information

Not available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous reactions if stored and handled according to provisions.

10.2 Chemical stability

Thermal decomposition/conditions to be avoided: To avoid thermal decomposition, do not overheat.

10.3 Possibility of hazardous reactions

Reacts with strong alkali, strong acids and strong oxidizing agents.

10.4 Conditions to avoid

Avoid excessive heat sources (open flame, sparks, etc.).

10.5 Incompatible materials

Not available.

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10.6 Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:	Oral: 2 479,97 mg/kg Cutaneous: 2 000 mg/kg
Skin corrosion/irritation:	Not available.
Serious eye damage/irritation:	Not available.
Respiratory/skin sensitisation:	Not available.
Germ cell mutagenicity:	Not available.
Carcinogenicity:	Not available.
Reproductive toxicity:	Not available.
Summary of evaluation of the CMR properties:	Not available.
STOT-single exposure:	Not available.
STOT-repeated exposure:	Not available.
Aspiration Hazard:	Not available.
Other:	Not available.

11.2 Additional information on potential adverse human health effects and symptoms

Eye contact:	Not available.
Skin contact:	May cause an allergic skin reaction.
Inhalation:	Not available.
Ingestion:	Not available.
Aspiration:	Not available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Do not allow the product, undiluted or in large quantities, to penetrate the water-bearing stratum, the open water or the canalization.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Not available.

12.5 Results of PBT and vPvB assessment

Not applicable.

12.6 Other adverse effects

General notes: Water hazard class 2 (Assessment by list): hazardous for water.
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not dispose of with household waste. Do not pour into sewers or waterways. Eliminate in accordance with current legislation, by a collector or a specialized company.

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Soiled packaging: Keep the label on the container. Give to a certified disposal contractor.

SECTION 14: TRANSPORT INFORMATION

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

14.1 UN Number

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : 1993

14.2 UN proper shipping name

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : DOT: Flammable liquids, n.o.s. (Eucalyptol)
ADR: 1993 FLAMMABLE LIQUID, N.O.S. (Eucalyptol)
IMDG, IATA: FLAMMABLE LIQUID, N.O.S. (Eucalyptol)

14.3 Transport hazard class(es)

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

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) : Not applicable.

14.6 Special precautions for user

Warning: Flammable liquids.

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

Not applicable.

14.8 Additional transport information

Not available.

SECTION 15: REGULATORY INFORMATION

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

Hazard symbol:



Risk phrases:

R10 Flammable
R43 May cause sensitisation by skin contact.

Safety phrases:

S9 Keep container in a well-ventilated place.
S16 Keep away from sources of ignition – No smoking
S29 Do not empty into drains
S33 Take precautionary measures against static discharges

15.2 Chemical safety assessment

A Chemical Safety Assessment has not 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

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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

Not applicable.

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

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

FRAVER NV

info@magis-pharma.be