

Revision: 16.03.2023

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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.03.2023

Version number 2.00 (replaces version 1.00)

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

- · Product identifier
- · Trade name: Camphor, racemic, exipient
- · Article number: 29
- · CAS Number:

76-22-2

· EC number:

200-945-0

- · 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

Tel: +49 (0) 228-192400

#### 2 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Flam. Sol. 2 H228 Flammable solid.

Acute Tox. 4 H332 Harmful if inhaled.

STOT SE 2 H371 May cause damage to organs.

- · Label elements
- · Labelling according to Regulation (EC) No 1272/2008

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

· Hazard pictograms



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- · Signal word Warning
- · Hazard statements

H228 Flammable solid.

H332 Harmful if inhaled.

H371 May cause damage to organs.

· Precautionary statements

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

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

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- · Determination of endocrine-disrupting properties Not applicable.

## 3 Composition/information on ingredients

- · Substances
- · CAS No. Description

CAS: 76-22-2 Bornan-2-on

- · Identification number(s)
- · EC number: 200-945-0

#### 4 First aid measures

- Description of first aid measures
- · After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact:

Rinse opened eye for several minutes under running water.

Seek medical advice, even if no immediate symptoms are observed.

- · 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 fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

· For safety reasons unsuitable extinguishing agents: Firmly waterspray

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### · Special hazards arising from the substance or mixture

Combustible but not oxidising. In case of fire dangerous vapours/gases can be generated: Smoke gases. Can form explosive gas-air mixtures.

- · 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

Avoid formation of dust.

Avoid contact with the substance.

Wear protective equipment. Keep unprotected persons away.

- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Take up dry. Clean up with water.

Dispose contaminated material as waste according to item 13.

· 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.
- · Information about fire and explosion protection: Keep ignition sources away Do not smoke.
- · 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: 4.1 B Flammable solids or desensitizing explosive substances
- · 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: 76-22-2 Bornan-2-on

OEL Short-term value: 18 mg/m³, 3 ppm Long-term value: 12 mg/m³, 2 ppm

- · Additional information: The lists valid during the making were used as basis.
- Exposure controls
- · **Appropriate engineering controls** No further data; see item 7.

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- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

- · Respiratory protection: Dust protection mask.
- · Hand protection Protective gloves
- Material of gloves

Rubber gloves

**PVC** 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

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/nitrile latex.

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Neoprene gloves

- · Eye/face protection Tightly sealed goggles
- · Body protection: Protective work clothing

## 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information

· Physical state Solid

Colour: Not determined.Odour: CharacteristicOdour threshold: Not determined.

· Melting point/freezing point: 178 °C

Boiling point or initial boiling point and boiling

range 204 °C

• **Flammability** Product is not flammable.

· Lower and upper explosion limit

 · Lower:
 0.6 Vol %

 · Upper:
 3.5 Vol %

 · Flash point:
 65 °C

 · Ignition temperature:
 460 °C

Decomposition temperature: Not determined.pH Not applicable.

· Viscosity:

Kinematic viscosityDynamic:Not applicable.Not applicable.

· Solubility

· water at 20 °C:

• Partition coefficient n-octanol/water (log value) Not determined. • Vapour pressure at 25 °C: 0.87 hPa

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· Density and/or relative density

Density at 20 °C: 0.99 g/cm<sup>3</sup> · Relative density Not determined. · Vapour density Not applicable. · Particle characteristics Not determined

· Other information

· Appearance:

· Form: Solid

· Important information on protection of health

and environment, and on safety.

· Auto-ignition temperature: Not determined. · Explosive properties: Not determined.

· Change in condition

· Evaporation rate Not applicable.

· Information with regard to physical hazard

classes

Void · Explosives Void

Flammable gases Void Void

· Aerosols Void

Void · Oxidising gases Void Void

· Gases under pressure Void Void · Flammable liquids Void

· Flammable solids Flammable solid.

Void

· Self-reactive substances and mixtures Void

> Void Void

Void

· Pyrophoric liquids Void

· Pyrophoric solids Void Void

· Self-heating substances and mixtures Void Void

· Substances and mixtures, which emit flammable

gases in contact with water Void Void

· Oxidising liquids Void Void

· Oxidising solids Void Void

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· Organic peroxides · Corrosive to metals · Desensitised explosives	Void Void Void Void Void	(Contd. of page 5)
Desensitised explosives	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.
- · Incompatible materials:

Strong oxidizing agents

Acids

Alkalis

· Hazardous decomposition products: No dangerous decomposition products known.

### 11 Toxicological information

- Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Harmful if inhaled.
- LD/LC50 values relevant for classification:

Oral LD50 1,310 mg/kg (mouse)

5,000 mg/kg (rat)

Skin corrosion/irritation

Irritant.

Based on available data, the classification criteria are not met.

- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- 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 May cause damage to organs.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- 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.

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## 12 Ecological information

- · Toxicity
- · Aquatic toxicity:

LC50 36 mg/L /96h (fish: danio rerio)

- · Persistence and degradability Easily biodegradable
- · Bioaccumulative potential No further relevant information available.
- · 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.

The product does not contain substances with endocrine disrupting properties.

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

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 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 UN2717

· UN proper shipping name

· ADR 2717 CAMPHOR
· IMDG CAMPHOR
· IATA Camphor

· Transport hazard class(es)

· ADR, IMDG, IATA

• Class 4.1 Flammable solids, self-reactive substances,

polymerizing substances and solid desensitized explosives

· Label 4.1

· Packing group

· ADR, IMDG, IATA

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· Environmental hazards: Not applicable.

· Special precautions for user Warning: Flammable solids, self-reactive substances,

polymerizing substances and solid desensitized explosives

· Hazard identification number (Kemler code): 40 · EMS Number: F-A.S-I

· Maritime transport in bulk according to IMO

**instruments** Not applicable.

· Transport/Additional information:

· ADR

Limited quantities (LQ)
 Transport category
 Tunnel restriction code

· IMDG

· Limited quantities (LQ) 5 kg

· UN "Model Regulation": UN 2717 CAMPHOR, 4.1, III

## 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: 40
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

Substance is not listed.

- National regulations:
- · Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany)

TRHS 510: 4.1 B Flammable solids or desensitizing explosive substances

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

## 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.
- · Version number of previous version: 1.00
- · 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

CAS: Chemical Abstracts Service (division of the American Chemical Society)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Sol. 2: Flammable solids – Category 2

Acute Tox. 4: Acute toxicity - Category 4

STOT SE 2: Specific target organ toxicity (single exposure) - Category 2