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Safety data sheet

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

Printing date 17.12.2024

Version number 2.00 (replaces version 1.00)

Revision: 17.12.2024

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

- · Product identifier
- · Trade name: <u>d-Camphor</u>
- · Article number: 28a
- CAS Number: 464-49-3
- EC number:
- 207-355-2
- · 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. 1 H228 Flammable solid.
- Acute Tox. 4 H332 Harmful if inhaled.
- Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

STOT SE 2 H371 May cause damage to organs.

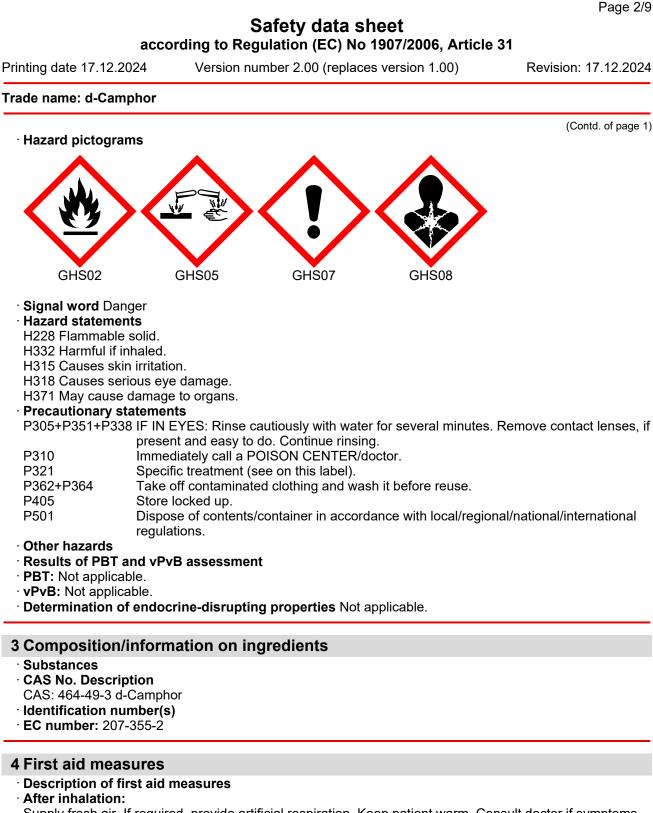
· Label elements

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

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

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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.

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· After eye contact:

Rinse opened eye for several minutes under running water. Seek medical advice, even if no immediate symptoms are observed.

After evellowing If event in no inimediate 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.
- · For safety reasons unsuitable extinguishing agents: Firmly waterspray
- · 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 section 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

Thorough dedusting.

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).

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- · 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: Not required.
- Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- Appropriate engineering controls No further data; see section 7.
- · 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 proper	ties
· General Information	
• Physical state So	olid
· Colour: N	ot determined.
· Odour: C	haracteristic
· Odour threshold: N	ot determined.
• Melting point/freezing point: 17	78 °C
Boiling point or initial boiling point and boiling	
range 21	10 °C
 Lower and upper explosion limit 	
· Lower: 0.	6 Vol %
· Upper: 4.	5 Vol %
Flash point: 66	3°C



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Auto-ignition temperature:	460 °C	
Decomposition temperature:	Not determined.	
· pH	Not applicable.	
· Viscosity:	Neterrieghie	
Kinematic viscosity	Not applicable.	
· Dynamic:	Not applicable.	
· Solubility	1 075 ~//	
water at 20 °C:	1.275 g/l	
Partition coefficient n-octanol/water (log value)	0.36173 0.25 hPa	
· Vapour pressure at 25 °C:	0.25 11Pa	
· Density and/or relative density	$0.00 a/cm^3$	
· Density at 20 °C:	0.99 g/cm ³	
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.		
Ignition temperature:	Not determined.	
· Explosive properties:	Not determined.	
Change in condition		
· Evaporation rate	Not applicable.	
Information with regard to physical hazard		
classes		
· Explosives	Void	
Explosites	Void	
· Flammable gases	Void	
	Void	
· Aerosols	Void	
	Void	
· Oxidising gases	Void	
	Void	
[.] Gases under pressure	Void	
	Void	
· Flammable liquids	Void	
	Void	
· Flammable solids	Flammable solid.	
	Void	
• Self-reactive substances and mixtures	Void	
	Void	
· Pyrophoric liquids	Void	
7 . F	Void	
· Pyrophoric solids	Void	
,	Void	
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Self-heating substances and mixtures	Void	
	Void	
· Substances and mixtures, which emit fla	mmable	
gases in contact with water	Void	
-	Void	
· Oxidising liquids	Void	
•	Void	
· Oxidising solids	Void	
-	Void	
· Organic peroxides	Void	
0	Void	
· Corrosive to metals	Void	
	Void	
 Desensitised explosives 	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.
- 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
- \cdot Acute toxicity <code>Harmful</code> if inhaled.
- · LD/LC50 values relevant for classification:
- Oral LD50 1,310 mg/kg (mouse)

Dermal LD50 2,000 mg/kg (rat)

- · Primary irritant effect:
- Skin corrosion/irritation
- Causes skin irritation.
- Irritant.
- \cdot Serious eye damage/irritation Causes serious eye damage.
- · 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.
- \cdot 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.

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· 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.

12 Ecological information

· Toxicity

· Aquatic toxicity:

LC50 33.25 mg/L /4d (Fish)

EC50 1.71 mg/L (algae)

4.23 mg/L /48h (invertebrates)

100 mg/L /3h (Microorganism)

EC10 0.032 mg/L (algae)

- 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) (Assessment by list): 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.

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14 Transport information	
· UN number or ID number	
· ADR, IMDG, IATA	UN2717
· UN proper shipping name	0112717
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 · Environmental hazards:	 Net enplicable
· Special precautions for user	Not applicable. Warning: Flammable solids, self-reactive substances,
Special precautions for user	polymerizing substances and solid desensitized
	explosives
 Hazard identification number (Kemler code): 	
· EMS Number:	F-A,S-I
 Maritime transport in bulk according to IMO 	
instruments	Not applicable.
 Transport/Additional information: 	
· ADR	
 Limited quantities (LQ) 	5 kg
Transport category	3
 Tunnel restriction code 	E
· 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 · Named dangerous substances - ANNEX I Substance is not listed.

- · 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

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· 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. 1: Flammable solids - Category 1 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 STOT SE 2: Specific target organ toxicity (single exposure) - Category 2