

		Ca	mphor		
Creati	on date	10th January 2020	-		
Revisi	on date	07th November 2024	Version	4.0	
SECT	ION 1: Identification	of the substance/mixture a	nd of the company/ur	ndertaking	
1.1.	Product identifier	-	Camphor	-	
	Substance / mixture		substance		
	Chemical name		Camphor		
	CAS number		76-22-2		
	EC (EINECS) number		244-350-4		
	Other substance nam	e			
	Camphor				
1.2.		uses of the substance or m	ixture and uses advise	ed against	
	Substance's intend				
	Chemical production, analytical chemistry, laboratory synthesis, industrial applications. medicine, pharmacy				
	Substance uses advised against				
	•	ot be used in ways other than		1.	
L.3.	Details of the supplier of the safety data sheet				
	Supplier				
			v		
	Name or trade	name	Ing. Petr Švec - I		
		name	Radiová 1122/1,	PENTA s.r.o. Praha 10, 102 00	
	Name or trade Address		Radiová 1122/1, Czech Republic		
	Name or trade Address Identification n		Radiová 1122/1, Czech Republic 02096013		
	Name or trade Address Identification n VAT Reg No		Radiová 1122/1, Czech Republic 02096013 CZ02096013	Praha 10, 102 00	
	Name or trade Address Identification n VAT Reg No Phone		Radiová 1122/1, Czech Republic 02096013 CZ02096013 +420 226 060 68	Praha 10, 102 00 31	
	Name or trade Address Identification n VAT Reg No Phone E-mail		Radiová 1122/1, Czech Republic 02096013 CZ02096013 +420 226 060 68 info@pentachem	Praha 10, 102 00 31 icals.eu	
	Name or trade Address Identification n VAT Reg No Phone E-mail Web address	umber (CRN)	Radiová 1122/1, Czech Republic 02096013 CZ02096013 +420 226 060 68 info@pentachemi www.pentachemi	Praha 10, 102 00 31 icals.eu	
	Name or trade Address Identification ne VAT Reg No Phone E-mail Web address <b>Competent person</b>		Radiová 1122/1, Czech Republic 02096013 CZ02096013 +420 226 060 68 info@pentachemi www.pentachemi	Praha 10, 102 00 31 icals.eu icals.eu	
	Name or trade Address Identification ne VAT Reg No Phone E-mail Web address <b>Competent person</b> Name	umber (CRN)	Radiová 1122/1, Czech Republic 02096013 CZ02096013 +420 226 060 68 info@pentachemi www.pentachemi ata sheet Ing. Petr Švec - I	Praha 10, 102 00 31 icals.eu icals.eu PENTA s.r.o.	
	Name or trade Address Identification ne VAT Reg No Phone E-mail Web address <b>Competent person</b> Name E-mail	umber (CRN) responsible for the safety d	Radiová 1122/1, Czech Republic 02096013 CZ02096013 +420 226 060 68 info@pentachemi www.pentachemi	Praha 10, 102 00 31 icals.eu icals.eu PENTA s.r.o.	
L.4.	Name or trade Address Identification ne VAT Reg No Phone E-mail Web address <b>Competent person</b> Name	umber (CRN) responsible for the safety d one number	Radiová 1122/1, Czech Republic 02096013 CZ02096013 +420 226 060 68 info@pentachemi www.pentachemi ata sheet Ing. Petr Švec - I	Praha 10, 102 00 31 icals.eu icals.eu PENTA s.r.o.	

Flam. Sol. 1, H228 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

Most serious adverse physico-chemical effects

# Flammable solid.

# Most serious adverse effects on human health and the environment

Harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation. Causes skin irritation.



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2.2.	Label elements Hazard pictogram	tance		
	Hazard statemer			
	H228	Flammable solid.	4	
	H302	Harmful if swallowed	-	
	H315	Causes skin irritation		
	H319	Causes serious eye i		
	H335	May cause respirato	ry irritation.	
	Precautionary st			
	P210	Keep away from hea No smoking.	it, not surfaces, sparks,	open flames and other ignition sources.
	P261	Avoid breathing dus	t.	
	P305+P351+P338		autiously with water for d easy to do. Continue	several minutes. Remove contact rinsing.
<b>ר</b> ר	Othen herende			

# 2.3. Other hazards

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Does not contain any PMT or vPvM components. Dust may form explosive mixture with air.

# SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Chemical characterization

The substance specified below.

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 76-22-2 EC: 244-350-4	substance main component Camphor		Flam. Sol. 1, H228 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	

Full text of all classifications and hazard statements is given in the section 16.



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# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Cardiac arrest - provide indirect cardiac massage immediately.

#### If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

#### If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

#### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

#### If swallowed

Provide medical treatment.

#### Most important symptoms and effects, both acute and delayed

#### If inhaled

4.2.

May cause respiratory irritation.

#### If on skin

Causes skin irritation.

#### If in eyes

Causes serious eye irritation.

#### If swallowed

Irritation, nausea.

4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

#### Unsuitable extinguishing media

Water - full jet.

# 5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

## 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. The substance is flammable. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale dust. Prevent contact with skin and eyes.



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Prevent contamination of the soil and entering surface or ground water.

#### 6.3. Methods and material for containment and cleaning up

Place the product mechanically in an appropriate manner. Dispose of the collected material according to the instructions in the section 13.

# 6.4. Reference to other sections

See the Section 7, 8 and 13.

#### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale dust. Prevent contact with skin and eyes. No smoking. Do not eat, drink or smoke when using this product. Wash hands and exposed parts of the body thoroughly after handling. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion -proof electrical/ventilating/lighting equipment.

## 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Store locked up. Keep container tightly closed.

# 7.3. Specific end use(s)

not available

#### SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

none

### 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

# Eye/face protection

Protective goggles.

#### Skin protection

Hand protection: Protective gloves resistant to the product (nitrile rubber). Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

## **Respiratory protection**

Half-mask with anti-dust filter when the exposition limits of substances are exceeded or in the location with insufficient ventilation.

#### **Thermal hazard**

#### Not available.

#### **Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2.

# SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties

Physical state	solid
Colour	colorless to white
Odour	characteristic
Melting point/freezing point	172-180 °C
Boiling point or initial boiling point and boiling range	209 °C
Flammability	flammable



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Lower and upp	er explosion limit			
bottom		0.6 %		
upper		4.5 %		
Flash point		65 °C		
Auto-ignition to	emperature	data not available		
Decomposition	temperature	data not available		
pН	pH Kinematic viscosity Solubility in water			
Kinematic visco				
Solubility in wa				
Partition coefficient	cient n-octanol/water (log value)	>3		
Vapour pressu	re la	0.27 kPa at 20 °C		
Density and/or	relative density			
Density		0.99 g/cm <sup>3</sup> at 20 °C		
Relative vapou	r density	data not available		
Particle charac	teristics	data not available		
9.2. Other information	ation			
Ignition tempe	rature	460 °C		

### **SECTION 10: Stability and reactivity**

10.1. Reactivity

The substance is flammable.

- **10.2.** Chemical stability The product is stable under normal conditions.
- **10.3.** Possibility of hazardous reactions Unknown.

# 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

# **10.5.** Incompatible materials

Protect against strong acids, bases and oxidizing agents.

# 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

# **SECTION 11: Toxicological information**

### **11.1.** Information on hazard classes as defined in Regulation (EC) No 1272/2008 No toxicological data is available for the substance.

#### Acute toxicity

Harmful if swallowed.

Camphor					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD50	>5000 mg/kg		Rat	

# Skin corrosion/irritation

Causes skin irritation.

## Serious eye damage/irritation

Causes serious eye irritation.



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#### 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.

#### Toxicity for specific target organ - single exposure

May cause respiratory irritation.

#### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

#### Aspiration hazard

Based on available data the classification criteria are not met.

### 11.2. Information on other hazards

#### Endocrine disrupting properties

Based on available data the classification criteria are not met. Does not contain any components that may cause endocrine disruption for humans.

# Other information

not available

#### **SECTION 12: Ecological information**

### 12.1. Toxicity

Based on available data the classification criteria are not met. Acute toxicity

# Camphor

Campiloi				
Parameter	Value	Exposure time	Species	Environment
LC <sup>50</sup>	17 mg/l	96 hours	Fish	

# 12.2. Persistence and degradability

No data available for the substance.

# 12.3. Bioaccumulative potential

No data available for the substance.

# 12.4. Mobility in soil

Based on available data the classification criteria are not met. Does not contain any PMT or vPvM components.

#### 12.5. Results of PBT and vPvB assessment

Based on available data the classification criteria are not met. Does not contain any PBT or vPvB components. Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

# **12.6.** Endocrine disrupting properties

Based on available data the classification criteria are not met. Does not contain any components that may cause endocrine disruption in the environment.



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### 12.7. Other adverse effects

Not available.

# SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

#### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

#### **SECTION 14: Transport information**

#### 14.1. UN number or ID number

UN 2717

- **14.2. UN proper shipping name** CAMPHOR
- 14.3. Transport hazard class(es)
  - 4.1 Flammable solids, self-reactive substances, polymerizing substances and solid desensitized explosives
- 14.4. Packing group
- III
- 14.5. Environmental hazards
  - not relevant
- **14.6.** Special precautions for user not available

# **14.7.** Maritime transport in bulk according to IMO instruments not relevant

#### Additional information

Hazard identification No.	40
UN number	2717
Classification code	F1
Safety signs	4.1
Tunnel restriction code	(E)
Air transport - ICAO/IATA	
Packaging instructions passenger	446
Cargo packaging instructions	449
Marine transport - IMDG	
EmS (emergency plan)	F-A, S-I



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### **SECTION 15: Regulatory information**

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation 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 Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

### **SECTION 16: Other information**

A list of standard risk phras	es used in the safety data sheet		
H228	Flammable solid.		
H302	Harmful if swallowed.		
H315	Causes skin irritation.		
H319	Causes serious eye irritation.		
H335	May cause respiratory irritation.		
Guidelines for safe handling	used in the safety data sheet		
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		
P261	Avoid breathing dust.		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
Other important information	n about human health protection		
	ess specifically approved by the manufacturer/importer - used for purposes other than is responsible for adherence to all related health protection regulations.		
Key to abbreviations and ac	ronyms used in the safety data sheet		
Acute Tox.	Acute toxicity		
ADR	European agreement concerning the international carriage of dangerous goods by road		
BCF	Bioconcentration Factor		
CAS	Chemical Abstracts Service		
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures		
EC	Identification code for each substance listed in EINECS		
EINECS	European Inventory of Existing Commercial Chemical Substances		
EmS	Emergency plan		
EU	European Union		
EuPCS	European Product Categorisation System		
Eye Irrit.	Eye irritation		
Flam. Sol.	Flammable solid		
IATA	International Air Transport Association		
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals		
ICAO	International Civil Aviation Organization		
IMDG	International Maritime Dangerous Goods		
IMO	International Maritime Organization		
INCI	International Nomenclature of Cosmetic Ingredients		
ISO	International Organization for Standardization		
IUPAC	International Union of Pure and Applied Chemistry		



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LC50	Lethal concentratio population	Lethal concentration of a substance in which it can be expected death of 50% of the population				
LD50	Lethal dose of a su population	Lethal dose of a substance in which it can be expected death of 50% of the population				
log Kow	Octanol-water partition coefficient					
OEL	Occupational Exposure Limits					
PBT	Persistent, bioaccumulative and toxic					
PMT	Persistent, mobile and toxic					
ppm	Parts per million					
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals					
RID	Agreement on the transport of dangerous goods by rail					
Skin Irrit.	Skin irritation					
STOT SE	Specific target organ toxicity - single exposure					
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations					
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials					
VOC	Volatile organic cor	Volatile organic compounds				
vPvB	Very persistent and	Very persistent and very bioaccumulative				
vPvM	Very persistent and very mobile					
Training guidelines						

#### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

# **Recommended restrictions of use**

#### not available

#### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

## The changes (which information has been added, deleted or modified)

The version 4.0 replaces the SDS version from Tuesday, 18 October 2022. Changes were made in sections 1, 2, 11, 12, 13, 15 and 16.

# More information

Classification procedure - calculation method.

#### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.