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### Oil of cembra pine pure

article number: **4208** Version: **GHS 2.0 en** Replaces version of: 2021-08-03 Version: (GHS 1)

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

### 1.1 Product identifier

Identification of the substance

Article number

CAS number

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses:

Uses advised against:

Laboratory chemical Laboratory and analytical use

Oil of cembra pine pure

4208

92202-04-5

Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household). Food, drink and animal feedingstuffs.

### 1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

**Telephone:**+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data Department Health, Safety and Environment sheet:

### e-mail (competent person):

### sicherheit@carlroth.de

### 1.4 Emergency telephone number

Name	Street	Postal code/city	Telephone	Website
Information Centre rens Hospital	Hawkesbury Road	2145 West- mead, NSW	131126	

# **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

### Classification acc. to GHS

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
2.6	Flammable liquid	3	Flam. Liq. 3	H226
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	Serious eye damage/eye irritation	2A	Eye Irrit. 2A	H319
3.4S	Skin sensitisation	1	Skin Sens. 1	H317



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acc. to Safe Work Australia - Code of Practice

### Oil of cembra pine pure



### article number: 4208

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
3.10	Aspiration hazard	1	Asp. Tox. 1	H304

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

## 2.2 Label elements

Labelling

Signal word Danger

### **Pictograms**

GHS02, GHS07, GHS08



### **Hazard statements**

H226 H304 H315 H317 H319	Flammable liquid and vapour May be fatal if swallowed and enters airways Causes skin irritation May cause an allergic skin reaction Causes serious eve irritation
H319	Causes serious eye irritation
11515	causes serious eye initation

### **Precautionary statements**

### **Precautionary statements - prevention**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking P280 Wear protective gloves

### **Precautionary statements - response**

P301+P310 P302+P352	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician IF ON SKIN: Wash with plenty of soap and water
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P331 P370+P378	Do NOT induce vomiting In case of fire: Use sand, carbon dioxide or powder extinguisher for extinction

### **Precautionary statements - storage**

P403+P235 Store in a well-ventilated place. Keep cool

### 2.3 Other hazards

### Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

### **Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

acc. to Safe Work Australia - Code of Practice

### Oil of cembra pine pure

article number: 4208

# **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Name of substance	Oil of cembra pine
CAS No	92202-04-5

### Impurities/additives/constituents:

Name of substance	Identifier	Wt%
ß-Phellandrene	CAS No 555-10-2	10-<25
Myrcene	CAS No 123-35-3	10-<25
ß-Pinene	CAS No 127-91-3	10-<25
δ-3-Carene	CAS No 13466-78-9	10-<25
DL-Limonene	CAS No 138-86-3	10-<25
p-Cymenene	CAS No 1195-32-0	1-<5
β-Caryophyllene	CAS No 87-44-5	1-<5
Terpinolene	CAS No 586-62-9	<1
Camphene	CAS No 79-92-5	<1

### Remarks

For full text of abbreviations: see SECTION 16

## **SECTION 4: First aid measures**

### 4.1 Description of first aid measures



#### **General notes**

Take off contaminated clothing.

#### **Following inhalation**

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

### Following skin contact

Rinse skin with water/shower. After contact with skin, wash immediately with plenty of water. In case of skin reactions, consult a physician.

### Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.



acc. to Safe Work Australia - Code of Practice

### Oil of cembra pine pure

article number: 4208

### **Following ingestion**

Call a physician immediately. Observe aspiration hazard if vomiting occurs.

- **4.2 Most important symptoms and effects, both acute and delayed** Aspiration hazard, Irritation, Allergic reactions
- **4.3 Indication of any immediate medical attention and special treatment needed** none

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media



### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water spray, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)

### Unsuitable extinguishing media

water jet

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

Combustible. In case of insufficient ventilation and/or in use, may form flammable/explosive vapourair mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

### Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

## SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



#### For non-emergency personnel

Do not breathe vapour/spray. Avoid contact with skin and eyes. Avoidance of ignition sources. Provide adequate ventilation.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

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

#### Advice on how to contain a spill

Covering of drains.



acc. to Safe Work Australia - Code of Practice

### Oil of cembra pine pure

® §ROTH

#### article number: 4208

### Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Provision of sufficient ventilation. When not in use, keep containers tightly closed.

#### Measures to prevent fire as well as aerosol and dust generation



Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge.

#### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. When using do not smoke.

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

Store in a well-ventilated place. Keep container tightly closed.

### Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

Keep container tightly closed.

### Ventilation requirements

Use local and general ventilation.

### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

### 7.3 Specific end use(s)

No information available.

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

### 8.1 Control parameters

### **National limit values**

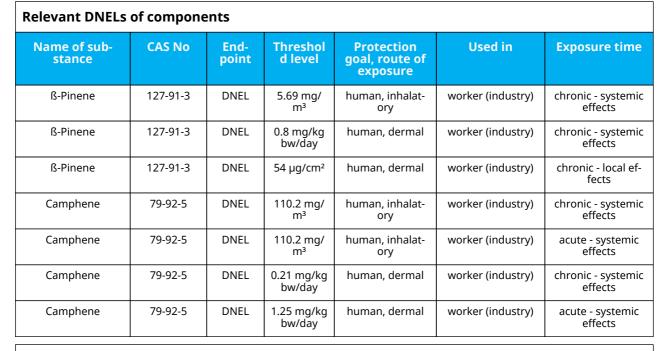
### **Occupational exposure limit values (Workplace Exposure Limits)**

This information is not available.

acc. to Safe Work Australia - Code of Practice

### Oil of cembra pine pure

article number: 4208



### **Relevant PNECs of components**

Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time
ß-Pinene	127-91-3	PNEC	1.004 <sup>µg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)
ß-Pinene	127-91-3	PNEC	0.1 <sup>µg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)
ß-Pinene	127-91-3	PNEC	3.26 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
ß-Pinene	127-91-3	PNEC	0.337 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
ß-Pinene	127-91-3	PNEC	0.034 <sup>mg</sup> / kg	aquatic organ- isms	marine sediment	short-term (single instance)
ß-Pinene	127-91-3	PNEC	0.067 <sup>mg</sup> / kg	terrestrial organ- isms	soil	short-term (single instance)
Camphene	79-92-5	PNEC	0.001 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)
Camphene	79-92-5	PNEC	0 <sup>mg</sup> /l	aquatic organ- isms	marine water	short-term (single instance)
Camphene	79-92-5	PNEC	10 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Camphene	79-92-5	PNEC	0.026 <sup>mg</sup> / kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Camphene	79-92-5	PNEC	0.003 <sup>mg</sup> / kg	aquatic organ- isms	marine sediment	short-term (single instance)
Camphene	79-92-5	PNEC	0.021 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)



acc. to Safe Work Australia - Code of Practice

### Oil of cembra pine pure

article number: 4208

#### 8.2 Exposure controls

### Individual protection measures (personal protective equipment)

#### **Eye/face protection**



Use safety goggle with side protection.

#### Skin protection



#### hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a consider-able reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

### • type of material

NBR (Nitrile rubber)

#### • material thickness

0,4 mm

### • breakthrough times of the glove material

>480 minutes (permeation: level 6)

### • other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

### **Respiratory protection**



Respiratory protection necessary at: Aerosol or mist formation.

### **Environmental exposure controls**

Keep away from drains, surface and ground water.





acc. to Safe Work Australia - Code of Practice

### Oil of cembra pine pure

article number: 4208

# **SECTION 9: Physical and chemical properties**

9.1	Information on basic physical and chemical pro	operties
	Physical state	liquid
	Colour	light yellow
	Odour	characteristic
	Melting point/freezing point	not determined
	Boiling point or initial boiling point and boiling range	not determined
	Flammability	flammable liquid in accordance with GHS criteria
	Lower and upper explosion limit	not determined
	Flash point	45 °C
	Auto-ignition temperature	not determined
	Decomposition temperature	not relevant
	pH (value)	not determined
	Kinematic viscosity	not determined
	Solubility(ies)	
	Water solubility	not determined
	Partition coefficient	
	Partition coefficient n-octanol/water (log value):	this information is not available
	Vapour pressure	not determined
	Density and/or relative density	
	Density	0.86 <sup>g</sup> / <sub>cm³</sub> at 20 °C
	Relative vapour density	Information on this property is not available.
	Particle characteristics	not relevant (liquid)
	Other safety parameters	
	Oxidising properties	none
9.2	Other information	
	Information with regard to physical hazard classes:	There is no additional information.
	Other safety characteristics:	
	Refractive index	1.47 – 1.48



acc. to Safe Work Australia - Code of Practice

### Oil of cembra pine pure

article number: 4208

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

### 10.1 Reactivity

It's a reactive substance. Risk of ignition.

### If heated

Risk of ignition. Vapours may form explosive mixtures with air.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser

### 10.4 Conditions to avoid

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

### **10.5** Incompatible materials

There is no additional information.

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### Classification acc. to GHS

### Acute toxicity

Shall not be classified as acutely toxic.

### Acute toxicity of components

, ,					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
δ-3-Carene	13466-78-9	oral	LD50	4,800 <sup>mg</sup> / <sub>kg</sub>	rat
ß-Pinene	127-91-3	oral	LD50	4,700 <sup>mg</sup> / <sub>kg</sub>	rat
DL-Limonene	138-86-3	oral	LD50	5,300 <sup>mg</sup> / <sub>kg</sub>	rat
Myrcene	123-35-3	oral	LD50	>3,380 <sup>mg</sup> / <sub>kg</sub>	mouse
Myrcene	123-35-3	dermal	LD50	>5,000 <sup>mg</sup> / <sub>kg</sub>	rabbit
β-Caryophyllene	87-44-5	oral	LD50	>5,000 <sup>mg</sup> / <sub>kg</sub>	mouse
Terpinolene	586-62-9	oral	LD50	>2,000 <sup>mg</sup> / <sub>kg</sub>	rat
Terpinolene	586-62-9	dermal	LD50	>2,000 <sup>mg</sup> / <sub>kg</sub>	rat

### Skin corrosion/irritation

Causes skin irritation.

### Serious eye damage/eye irritation

Causes serious eye irritation.



acc. to Safe Work Australia - Code of Practice

### Oil of cembra pine pure

article number: 4208



# Respiratory or skin sensitisation

May cause an allergic skin reaction.

### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Shall not be classified as carcinogenic.

### **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### **Aspiration hazard**

May be fatal if swallowed and enters airways.

### Symptoms related to the physical, chemical and toxicological characteristics

### • If swallowed

aspiration hazard

### • If in eyes

Causes serious eye irritation

## • If inhaled

Data are not available.

### • If on skin

causes skin irritation, May produce an allergic reaction, pruritis, localised redness

### • Other information

none

### **11.2** Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

## **SECTION 12: Ecological information**

### 12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components					
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
ß-Pinene	127-91-3	LC50	0.68 <sup>mg</sup> / <sub>l</sub>	rainbow trout (Onco- rhynchus mykiss)	96 h
ß-Pinene	127-91-3	EC50	1.09 <sup>mg</sup> / <sub>l</sub>	daphnia magna	48 h
ß-Pinene	127-91-3	ErC50	0.7 <sup>mg</sup> / <sub>l</sub>	Pseudokirchneriella subcapitata	72 h

acc. to Safe Work Australia - Code of Practice

### Oil of cembra pine pure

article number: 4208



Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
DL-Limonene	138-86-3	EC50	17 <sup>mg</sup> / <sub>l</sub>	daphnia magna	48 h
DL-Limonene	138-86-3	LC50	80 <sup>mg</sup> / <sub>l</sub>	rainbow trout (Onco- rhynchus mykiss)	96 h
Myrcene	123-35-3	EC50	1.47 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
Myrcene	123-35-3	EC50	0.31 <sup>mg</sup> / <sub>l</sub>	algae	72 h
Myrcene	123-35-3	ErC50	0.342 <sup>mg</sup> / <sub>l</sub>	algae	72 h
β-Caryophyllene	87-44-5	EC50	>0.17 <sup>mg</sup> / <sub>l</sub>	daphnia magna	48 h
β-Caryophyllene	87-44-5	ErC50	>0.033 <sup>mg</sup> / <sub>l</sub>	algae	72 h
Camphene	79-92-5	LC50	0.72 <sup>mg</sup> / <sub>l</sub>	fish	96 h
Camphene	79-92-5	EC50	0.72 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
Camphene	79-92-5	ErC50	>1,000 <sup>mg</sup> / <sub>l</sub>	algae	72 h
Terpinolene	586-62-9	LC50	0.805 <sup>mg</sup> /l	fish	96 h
Terpinolene	586-62-9	EC50	0.634 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
Terpinolene	586-62-9	ErC50	0.692 <sup>mg</sup> / <sub>l</sub>	algae	72 h

## Aquatic toxicity (chronic) of components

Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
ß-Pinene	127-91-3	EC50	326 <sup>mg</sup> / <sub>l</sub>	microorganisms	3 h
Camphene	79-92-5	EC50	>1,000 <sup>mg</sup> / <sub>l</sub>	microorganisms	3 h
Terpinolene	586-62-9	EC50	69 <sup>mg</sup> /l	microorganisms	3 h

## 12.2 Persistence and degradability

## Biodegradation

Not readily biodegradable.

Degradability of components						
Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source
ß-Pinene	127-91-3	oxygen deple- tion	76 %	28 d		ECHA
Myrcene	123-35-3	oxygen deple- tion	76 %	28 d		ECHA
β-Caryophyl- lene	87-44-5	oxygen deple- tion	10 %	28 d		ECHA
Terpinolene	586-62-9	oxygen deple- tion	81 %	28 d		ECHA

acc. to Safe Work Australia - Code of Practice



### Oil of cembra pine pure

article number: 4208

### 12.3 Bioaccumulative potential

### Data are not available.

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
δ-3-Carene	13466-78-9		4.38	
DL-Limonene	138-86-3		4.57	
Myrcene	123-35-3		4.82 (pH value: ~6.5, 30 °C)	
β-Caryophyllene	87-44-5		6.23 (pH value: 7, 25 °C)	
Camphene	79-92-5		4.22 (pH value: 7.2, 37 °C)	
Terpinolene	586-62-9		4.47	

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

#### 12.7 Other adverse effects

Data are not available.

## **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packagings

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

### Relevant provisions relating to waste(Basel Convention)

#### **Properties of waste which render it hazardous**

- H3 Flammable liquids
- H11 Toxic (Delayed or chronic)

### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

acc. to Safe Work Australia - Code of Practice

## Oil of cembra pine pure

article number: 4208



14.1 UN number	
UN RTDG UN 1272	
IMDG-Code UN 1272	
ICAO-TI UN 1272	
14.2 UN proper shipping name	
UN RTDG PINE OIL	
IMDG-Code PINE OIL	
ICAO-TI Pine oil	
14.3 Transport hazard class(es)	
UN RTDG 3	
IMDG-Code 3	
ICAO-TI 3	
14.4 Packing group	
UN RTDG III	
IMDG-Code III	
ICAO-TI III	
<b>14.5</b> Environmental hazardshazardous to the aquatic environment	
14.6 Special precautions for user	
There is no additional information.	
<b>14.7 Transport in bulk according to IMO instruments</b> The cargo is not intended to be carried in bulk.	
The cargo is not intended to be carried in burk.	
14.8 Information for each of the UN Model Regulations	
Transport informationNational regulationsAdditional information(UN RTDG)	
UN number 1272	
Class 3	
Environmental hazards Yes Hazardous to the aquatic environment	
Packing group III	
Danger label(s) 3   Fish and tree	
Special provisions (SP) - UN RTDG	
Excepted quantities (EQ) E1 UN RTDG	

acc. to Safe Work Australia - Code of Practice

### Oil of cembra pine pure

article nu

e number: <b>4208</b>	
Limited quantities (LQ)	5 L UN RTDG
Emergency Action Code	3Y
International Maritime Dangerous Goods Code (	IMDG) - Additional information
Proper shipping name	PINE OIL
Particulars in the shipper's declaration	UN1272, PINE OIL, 3, III, 45°C c.c., MARINE POL- LUTANT
Marine pollutant	yes (P) (hazardous to the aquatic environment)
Danger label(s)	3, "Fish and tree"
Special provisions (SP)	-
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-E, S-E
Stowage category	A
International Civil Aviation Organization (ICAO-	IATA/DGR) - Additional information
Proper shipping name	Pine oil
Particulars in the shipper's declaration	UN1272, Pine oil, 3, III
Environmental hazards	<b>Yes</b> (hazardous to the aquatic environment)
Danger label(s)	3
Excepted quantities (EQ)	E1
Limited quantities (LQ)	10 L

# **SECTION 15: Regulatory information**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture There is no additional information.

### **Other information**

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

### National inventories

Country	Inventory	Status
EU	ECSI	substance is listed
Legend		

ECSI EC Substance Inventory (EINECS, ELINCS, NLP)



acc. to Safe Work Australia - Code of Practice



### Oil of cembra pine pure

article number: 4208

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

# **SECTION 16: Other information**

### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
14.8		Emergency Action Code: 3Y	yes
15.1		Other information: Directive 94/33/EC on the protection of young people at work. Observe employment restric- tions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.	yes

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code

acc. to Safe Work Australia - Code of Practice



## Oil of cembra pine pure

article number: 4208

Abbr.	Descriptions of used abbreviations
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
log KOW	n-Octanol/water
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
UN RTDG	UN Recommendations on the Transport of Dangerous Good
vPvB	Very Persistent and very Bioaccumulative

### Key literature references and sources for data

Safe Work Australia's Code of Practice for Labelling of Workplace Hazardous Chemicals (under WHS Regulations).

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
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.

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.