

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

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

1.1 Product identifier

Trade name : MISTLETOE AND WHITE CEDAR

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

Use of the Sub-stance/Mixture : Fragrance mix

1.3 Details of the supplier of the safety data sheet

Candle Supply Pty Ltd
Unit 3 8-9 Lagana Place
Wetherill Park, NSW 2164
ABN: 70612899626

Phone Number: 02 8741 4000
e-mail: customerservice@candlesupply.com.au

1.4 Emergency telephone number

13 11 26

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2	H315: Causes skin irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements


Labelling (REGULATION (EC) No 1272/2008)

Version 3.0	Revision Date: 01.06.2022	SDS Number: 906603	Date of last issue: 02.05.2022 Date of first issue: 01.04.2022
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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	:	Prevention: P261 Avoid breathing mist or vapours. P264 Wash skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves. Response: P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P391 Collect spillage.

Hazardous components which must be listed on the label:

Linalyl acetate
3,7-Dimethyloctan-3-ol
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one
[3R-(3 α ,3 α β ,6 α ,7 β ,8 α)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene
2-Methylundecanal
(Ethoxymethoxy)cyclododecane
2,4-Dimethylcyclohex-3-ene-1-carbaldehyde
3,7-Dimethylnona-1,6-dien-3-ol
 α -Methylcinnamaldehyde
2,4,6-Trimethylcyclohex-3-enecarbaldehyde
Dodecanal
Cineole
Eugenol
(R)-p-mentha-1,8-diene; d-limonene
Cinnamaldehyde
Pin-2(3)-ene
2,6,10-Trimethylundec-9-enal

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version
3.0

Revision Date:
01.06.2022

SDS Number:
906603

Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Linalyl acetate	115-95-7 204-116-4	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 1 - < 10
3,7-Dimethyloctan-3-ol	78-69-3 201-133-9 01-2119454788-21 01-2119454788-21	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 1 - < 10
2,6-Dimethyloct-7-en-2-ol	18479-58-8 242-362-4 01-2119457274-37 01-2119457274-37	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - < 10
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	54464-57-2 259-174-3	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 1; H410 M-Factor (Chronic aquatic toxicity): 1	>= 1 - < 2,5
[3R-(3 α ,3 β ,6 α ,7 β ,8 α)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	67874-81-1 19870-74-7 267-510-5 01-2120228335-61 01-2120228335-61 01-2120228335-61	Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2,5

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

2-Methylundecanal	110-41-8	Skin Irrit. 2; H315	$\geq 0,25 - < 1$
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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version
3.0

Revision Date:
01.06.2022

SDS Number:
906603

Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

	203-765-0 01-2119969443-29 01-2119969443-29	Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	
(Ethoxymethoxy)cyclododecane	58567-11-6 261-332-1 01-2119971571-34- 0000, 01- 2119971571-34-0002	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 2; H411	>= 0,25 - < 1
2,4-Dimethylcyclohex-3-ene-1- carbaldehyde	68039-49-6 68039-48-5 268-264-1 01-2119982384-28 01-2119982384-28 01-2119982384-28 01-2119982384-28 01-2119982384-28 01-2119982384-28	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 0,25 - < 1
3,7-Dimethylnona-1,6-dien-3-ol	10339-55-6 233-732-6 01-2119969272-32 01-2119969272-32	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 0,1 - < 1
α -Methylcinnamaldehyde	15174-47-7 101-39-3 202-938-8	Skin Sens. 1; H317	>= 0,1 - < 1
2,4,6-Trimethylcyclohex-3- enecarbaldehyde	1423-46-7 1335-66-6 215-833-7	Eye Irrit. 2; H319 Skin Sens. 1B; H317 Aquatic Chronic 3; H412	>= 0,25 - < 1

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version
3.0

Revision Date:
01.06.2022

SDS Number:
906603

Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

Dodecanal	112-54-9 203-983-6 01,2119969441-33 01-2119969441-33	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 0,1 - < 1
Cineole	470-82-6 207-431-5	Flam. Liq. 3; H226 Skin Sens. 1B; H317	>= 0,1 - < 1
[3R-(3 α ,3 $\alpha\beta$,7 β ,8 $\alpha\alpha$)]- 2,3,4,7,8,8a-Hexahydro-3,6,8,8- tetramethyl-1H-3a,7- methanoazulene	469-61-4 207-418-4	Skin Irrit. 2; H315 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 0,1 - < 0,25
[1AS-(1 $\alpha\alpha$,4 $\alpha\beta$,8 αR^*)]- 1,1a,4,4a,5,6,7,8-octahydro- 2,4a,8,8- tetramethylcyclopro- pa[d]naphthalene	470-40-6 207-426-8	Aquatic Acute 1; H400	>= 0,1 - < 0,25
1-Methyl-4-(4- methylpentyl)cyclohex-3-ene-1- carbaldehyde	66327-54-6 266-314-7 01-2120735782-50	Skin Irrit. 2; H315 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 0,1 - < 0,25
Eugenol	97-53-0 202-589-1	Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 0,1 - < 1

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

(R)-p-mentha-1,8-diene; d-limonene	5989-27-5	Flam. Liq. 3; H226	>= 0,1 - < 0,25
	227-813-5	Skin Irrit. 2; H315 Skin Sens. 1B; H317	
	601-029-00-7	Asp. Tox. 1; H304 Aquatic Acute 1; H400	

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version
3.0

Revision Date:
01.06.2022

SDS Number:
906603

Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

		Aquatic Chronic 1; H410	
Cinnamaldehyde	104-55-2 203-213-9 01-2119935242-45 01-2119935242-45 01-2119935242-45	Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1A; H317	>= 0,1 - < 1
Pin-2(3)-ene	80-56-8 201-291-9	Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 0,1 - < 0,25
2,6,10-Trimethylundec-9-enal	141-13-9 205-460-8 01-2120139915-49	Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 0,1 - < 0,25
[3R-(3 α ,3 $\alpha\beta$,7 β ,8 $\alpha\alpha$)]-Octahydro-3,8,8-trimethyl-6-methylene-1H-3a,7-methanoazulene	546-28-1 208-898-8	Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 0,025 - < 0,1
Substances with a workplace exposure limit :			

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

(2-Methoxymethylethoxy)propanol	34590-94-8		$\geq 50 - < 70$
	252-104-2		

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version
3.0

Revision Date:
01.06.2022

SDS Number:
906603

Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

	01-2119450011-60		
	01-2119450011-60		
	01-2119450011-60		
	01-2119450011-60		
	01-2119450011-60		

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- Protection of first-aiders : First Aid responders should pay attention to self-protection
and use the recommended protective clothing
- If inhaled : Remove person to fresh air. If signs/symptoms continue, get
medical attention.
Keep patient warm and at rest.
If breathing is irregular or stopped, administer artificial respira-
tion.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Rinse mouth with water.
Keep respiratory tract clear.
Do NOT induce vomiting.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : Causes skin irritation.
May cause an allergic skin reaction.
- First aider needs to protect himself.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.
There is no specific antidote available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : In the event of fire and/or explosion do not breathe fumes.
Standard procedure for chemical fires.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
Evacuate personnel to safe areas.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Avoid formation of aerosol.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : When using do not eat or drink. When using do not smoke.
Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.
- Advice on common storage : No special restrictions on storage with other products.
- Storage class (TRGS 510) : 10, Combustible liquids
- Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

- Specific use(s) : Fragrance mix

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
(2-Methoxymethylethoxy)propanol	34590-94-8	MAK (vapour)	50 ppm 310 mg/m ³	DFG
		TWA	50 ppm	91/322/EEC

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version
3.0

Revision Date:
01.06.2022

SDS Number:
906603

Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

			308 mg/m ³	
		TWA	50 ppm 308 mg/m ³	EU SCOEL
		AGW (Vapor and aerosol)	50 ppm 310 mg/m ³	DE TRGS 900
Further information: Sum of vapors and aerosols.				
(R)-p-mentha-1,8-diene; d-limonene	5989-27-5	MAK	5 ppm 28 mg/m ³	DFG
		AGW	5 ppm 28 mg/m ³	DE TRGS 900

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
3,7-Dimethyloctan-3-ol	Workers	Inhalation	Long-term systemic effects	11,14 mg/m ³
	Workers	Skin contact	Long-term systemic effects	3,16 mg/kg bw/day
	Workers	Skin contact	Long-term local effects	0,19 mg/cm ²
	Consumers	Inhalation	Long-term systemic effects	2,75 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	1,58 mg/kg bw/day
	Consumers	Skin contact	Long-term local effects	0,19 mg/cm ²
	Consumers	Ingestion	Long-term systemic effects	1,58 mg/kg bw/day
(Ethoxymethoxy)cyclododecane	Workers	Inhalation	Long-term systemic effects	23,5 mg/m ³
	Workers	Skin contact	Long-term systemic effects	3,3 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	5,8 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	1,67 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	1,67 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
3,7-Dimethyloctan-3-ol	Fresh water	0,0089 mg/l
	Fresh water sediment	0,082 mg/kg dry weight (d.w.)
	Marine water	0,00089 mg/l
	Marine sediment	0,0082 mg/kg dry weight (d.w.)
	Sewage treatment plant	450 mg/l
	Soil	0,011 mg/kg dry weight (d.w.)
(Ethoxymethoxy)cyclododecane	Fresh water	0,002 mg/l

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

	Fresh water sediment	2,35 mg/kg dry weight (d.w.)
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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

	Marine water	0,00016 mg/l
	Marine sediment	0,235 mg/kg dry weight (d.w.)
	Sewage treatment plant	100 mg/l
	Soil	0,468 mg/kg dry weight (d.w.)

8.2 Exposure controls

Personal protective equipment

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles

Hand protection

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Wear chemicals-resistant gloves, e.g. safety gloves of nitril (thickness 0.4mm) or of butyl rubber (thickness 0.7mm).

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : Not required; except in case of aerosol formation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : clear liquid

Colour : colorless to yellow

Odour : characteristic

Odour Threshold : No data available

Melting point/freezing point :
not determined

Boiling point/boiling range : not determined

Upper explosion limit / Upper flammability limit : Vapours may form explosive mixtures with air.

Lower explosion limit / Lower flammability limit : Vapours may form explosive mixtures with air.

Flash point : 79 °C

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Decomposition temperature : not determined

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

pH : not determined

Viscosity
Viscosity, dynamic : not determined
Viscosity, kinematic : not determined

Partition coefficient: n-octanol/water : not determined

Vapour pressure : 1 kPa (50 °C)
calculated

Relative density : 0,9340 - 0,9640 (20 °C)
relation to density of water at 4°C

Bulk density : Not applicable

Relative vapour density : not determined

9.2 Other information

Explosives : Due to its structural properties, the product is not classified as explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Self-ignition : The substance or mixture is not classified as self heating.

Evaporation rate : Lower than the evaporation rate of butyl acetate = 1

Molecular weight : not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.
Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not classified based on available information.

Components:

Linalyl acetate:

Acute oral toxicity : LD50 (Rat, male and female): > 9.000 mg/kg
GLP: no

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg
GLP: no

3,7-Dimethyloctan-3-ol:

Acute oral toxicity : LD50 Oral (Rat, male and female): 8.270 mg/kg
GLP: no

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg
GLP: No information available.

2,6-Dimethyloct-7-en-2-ol:

Acute oral toxicity : LD50 Oral (Rat): 3.600 mg/kg

1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one:

Acute oral toxicity : LD50 Oral (Rat, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 402
GLP: no

[[3R-(3 α ,3 β ,6 α ,7 β ,8 α)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

2-Methylundecanal:

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

Acute dermal toxicity : LD50 Dermal (Rabbit): > 10.000 mg/kg

(Ethoxymethoxy)cyclohexanone:

Acute oral toxicity : LD50 Oral (Rat, male): > 5.000 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute dermal toxicity : LD50 Dermal (Rabbit, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

2,4-Dimethylcyclohex-3-ene-1-carbaldehyde:

Acute oral toxicity : LD50 Oral (Rat): 3.900 mg/kg
GLP: No information available.

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg
GLP: No information available.

3,7-Dimethylnona-1,6-dien-3-ol:

Acute oral toxicity : LD50: 5.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

α -Methylcinnamaldehyde:

Acute oral toxicity : LD50 (Rat): ca. 2.050 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg

2,4,6-Trimethylcyclohex-3-enecarbaldehyde:

Acute oral toxicity : LD50 Oral (Rat): 4.100 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg

Dodecanal:

Acute oral toxicity : LD50 (Rat): 23.100 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

Cineole:

Acute oral toxicity : LD50 Oral (Rat, male and female): 4.500 mg/kg
Method: OECD Test Guideline 401
GLP: No information available.
Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Remarks: Information given is based on data obtained from

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

similar substances.

1-Methyl-4-(4-methylpenta-1-en-1-yl)cyclohex-3-ene-1-carbaldehyde:

Acute oral toxicity : LD50 (Rat, female): 6.900 mg/kg
GLP: no

Acute dermal toxicity : LD50 (Rabbit): 5.000 mg/kg
Method: OECD Test Guideline 402
GLP: no

Eugenol:

Acute oral toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD 423
GLP: No information available.

Acute inhalation toxicity : LC50 (Rat, male and female): > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: No information available.

(R)-p-mentha-1,8-diene; d-limonene:

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg
Remarks: Information given is based on data obtained from similar substances.

Cinnamaldehyde:

Acute oral toxicity : LD50 (Rat): 2.500 mg/kg

Acute dermal toxicity : LD50 (Rat): 1.100 mg/kg

Pin-2(3)-ene:

Acute oral toxicity : LD50 Oral: 500 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

2,6,10-Trimethylundec-9-enal:

Acute oral toxicity : LD50 Oral (Rat, male and female): > 4.250 mg/kg
Method: OECD Test Guideline 401
GLP: no

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

(2-Methoxymethylethoxy)propanol:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 500 mg/l
Exposure time: 7 h

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Components:

Linalyl acetate:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Skin irritation
GLP : No information available.
Concentration : 100 %

3,7-Dimethyloctan-3-ol:

Species : Rabbit
Result : Skin irritation
GLP : no
Concentration : 100 %

Species : reconstructed human epidermis (RhE)
Exposure time : 1 h
Method : OECD Test Guideline 439
Result : Skin irritation
Concentration : 100 %

1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one:

Species : reconstructed human epidermis (RhE)
Exposure time : 0,25 h
Method : OECD 439
Result : Skin irritation
GLP : yes
Concentration : 100 %

[3R-(3 α ,3 β ,6 α ,7 β ,8 α)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene:

Species : Humans
Result : No skin irritation
Concentration : 8 %

2-Methylundecanal:

Species : Rabbit
Exposure time : 24 h
Result : Moderate irritation of skin
Dose : 10
Concentration : 100 %

(Ethoxymethoxy)cyclododecanol:

Species : Rabbit
Exposure time : 4 h

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

Method : OECD Test Guideline 404
Result : Irritating to skin.
GLP : yes
Dose : 0,5 ml
Concentration : 100 %

|| 3,7-Dimethylnona-1,6 dien-3-ol:

Species : Humans
Exposure time : 1 h
Method : OECD Test Guideline 439
Result : Skin irritation
GLP : yes
Concentration : 100 %

|| α -Methylcinnamaldehyde:

Species : Humans
Method : HRIPT
Result : No skin irritation
GLP : yes
Dose : 0,3 ml

|| 2,4,6-Trimethylcyclohex-3-enecarbaldehyde:

Species : Rabbit
Exposure time : 72 h
Method : OECD Test Guideline 404
Result : Mild skin irritation
GLP : no
Concentration : 100 %

|| Dodecanal:

Species : Humans
Exposure time : 48 h
Result : Mild skin irritation
Dose : 5 mg

Species : Rabbit
Exposure time : 24 h
Result : Mild skin irritation
Dose : 500 mg

|| Cineole:

Species : reconstructed human epidermis (RhE)
Exposure time : 15 min
Method : OECD 439
Result : No skin irritation
GLP : yes
Concentration : 100 %

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

1-Methyl-4-(4-methylpentyl)cyclohex-3-ene-1-carbaldehyde

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Moderate irritation of skin
GLP : yes
Concentration : 100 %

Eugenol:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Mild skin irritation
GLP : yes
Dose : 0,5 ml
Concentration : 100 %

Cinnamaldehyde:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Moderate irritation of skin
GLP : yes
Dose : 0,5 ml
Concentration : 100 %

Pin-2(3)-ene:

Species : reconstructed human epidermis (RhE)
Exposure time : 15 min
Result : Skin irritation
GLP : yes
Concentration : 100 %

2,6,10-Trimethylundec-9-enal:

Species : reconstructed human epidermis (RhE)
Exposure time : 15 min
Method : OECD Test Guideline 439
Result : No skin irritation
GLP : yes
Concentration : 100 %

(2-Methoxymethylethoxy)propanol:

Species : Rabbit
Result : Mild skin irritation
Dose : 500 mg

Serious eye damage/eye irritation

Not classified based on available information.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version
3.0

Revision Date:
01.06.2022

SDS Number:
906603

Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

Components:

Linalyl acetate:

Species : Rabbit
Result : Eye irritation
GLP : no
Concentration : 100 %

3,7-Dimethyloctan-3-ol:

Species : Rabbit
Result : Eye irritation
GLP : no
Dose : 0,05 ML
Concentration : 100 %

2,6-Dimethyloct-7-en-2-ol:

Species : Rabbit
Result : Eye irritation
GLP : yes
Dose : 0,1 ML
Concentration : 100 %

1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one:

Species : Rabbit
Method : Draize Test
Result : No eye irritation
Dose : 0,1 ML
Concentration : 2,5 %
solvents : Ethyl alcohol

2-Methylundecanal:

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation
GLP : yes
Dose : 0,1
Concentration : 100 %

(Ethoxymethoxy)cyclododecanol:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Mild eye irritation
GLP : yes
Dose : 0,1 ML
Concentration : 100 %

2,4-Dimethylcyclohex-3-ene-1-carbaldehyde:

Species : Rabbit

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Result : Eye irritation

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

GLP : No information available.
Dose : 0,1 ML
Concentration : 100 %

|| 3,7-Dimethylnona-1,6- dien-3-ol:

Species : Rabbit
Method : Draize Test
Result : Eye irritation
GLP : no
Concentration : 100 %
solvents : Diethylphthalate

|| α -Methylcinnamaldehyde:

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation
GLP : yes
Dose : 0,1 ML
Concentration : 100 %

|| 2,4,6-Trimethylcyclohex-3-enecarbaldehyde:

Result : Eye irritation

|| Cineole:

Species : Bovine cornea
Method : OECD 437
Result : Mild eye irritation
GLP : yes
Dose : 0,75 ML
Concentration : 100 %

Species : Rabbit
Method : OECD Test Guideline 405
Result : Mild eye irritation
GLP : yes
Concentration : 100 %
Remarks : Information given is based on data obtained from similar substances.

|| 1-Methyl-4-(4-methylpentyl)cyclohex-3-ene-1-carbaldehyde:

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation
GLP : no
solvents : Propylene glycol

|| Eugenol:

Species : Rabbit
Method : OECD Test Guideline 405

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

Result : Eye irritation
Dose : 0,1 ML
Concentration : 100 %

Cinnamaldehyde:

Species : Rabbit
Exposure time : 24 h
Method : OECD Test Guideline 405
Result : Irritating to eyes.
GLP : yes
Concentration : 100 %

2,6,10-Trimethylundec-9-enal:

Species : Cattle
Method : OECD 437
Result : No eye irritation
GLP : yes
Concentration : 100 %

(2-Methoxymethylethoxy)propanol:

Species : Rabbit
Exposure time : 24 h
Result : Mild eye irritation
Dose : 500 MG

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

3,7-Dimethyloctan-3-ol:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : yes
Concentration : 7,6 %
solvents : Ethyl Methyl Ketone

2,6-Dimethyloct-7-en-2-ol

Species : Humans
Result : No sensitizing effect.
Rate of positive effects : 0/25
Concentration : 4 %

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Test Type : Maximisation Test

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

Species : Guinea pig
Method : OECD Test Guideline 406
Concentration : 100 %

1-(1,2,3,4,5,6,7,8-Octa ydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : yes
Concentration : 6,07 %
solvents : Diethylphthalate/Ethyl alcohol (1:1)

2-Methylundecanal:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : yes
Concentration : 10 %
solvents : Acetone/Olive oil (4:1)

(Ethoxymethoxy)cycl dodecan :

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : yes
Concentration : 25,1 %
solvents : Acetone/Olive oil (4:1)

2,4-Dimethylcyclohex-3-ene-1-c rbaldehyde:

Test Type : Maximisation Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Sensitizing effect.
GLP : yes
Concentration : 25 %
solvents : Diethylphthalate/Ethyl alcohol (1:1)

3,7-Dimethylnona-1,6 dien-3-ol:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD Test Guideline 429
Result : Sensitizing effect.
GLP : yes
Concentration : 48,2 %
solvents : N,N-Dimethylformamide

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

|| 2,4,6-Trimethylcyclohex-3-enec rbaldehyde:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD Test Guideline 429
Result : Sensitizing effect.
GLP : yes
Concentration : 0,5 - 10 %
solvents : Diethylphthalate/Ethyl alcohol (3:1)

|| Cineole:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : yes
Concentration : 65,9 %
solvents : Acetone/Olive oil (4:1)

|| 1-Methyl-4-(4-methy pentyl)cyclohex-3-ene-1-carbaldehyde

Test Type : Maximisation Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : No sensitizing effect.
GLP : yes

|| Eugenol:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : No information available.
Concentration : > 5,4 %
solvents : Diethylphthalate/Ethyl alcohol (3:1)

|| Cinnamaldehyde:

Test Type : Klecak Open Epicutaneous test
Species : Guinea pig
Result : Sensitizing effect.
Concentration : 3 %

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
Concentration : 3,1 %
solvents : Acetone/Olive oil (4:1)

|| 2,6,10-Trimethylunc ec-9-enal:

Test Type : Local Lymph Node Assay

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Species : Mouse

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

Method : OECD 429
Result : Sensitizing effect.
GLP : yes
Concentration : 32 %
solvents : Acetone/Olive oil (4:1)

(2-Methoxymethylethoxy)propanol:

Result : No sensitizing effect.

Germ cell mutagenicity

Not classified based on available information.

Components:

Linalyl acetate:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: mouse lymphoma L5178Y cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male and female)
Strain: CD1
Cell type: Bone marrow
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: yes

|| 3,7-Dimethyloctan-3-ol:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

Test Type: In vitro Mammalian Chromosome Aberration Test
Test system: V79 cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: V79 cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

|| 2,6-Dimethyloct-7-en-2-ol:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: mouse lymphoma L5178Y cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD 473
Result: negative
GLP: yes

|| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Test Type: In vitro Mammalian Cell Gene Mutation Test

Test system: mouse lymphoma L5178Y cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

Result: negative
GLP: yes

|| [3R-(3 α ,3 α β ,6 α ,7 β ,8 α)]- Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene:

Genotoxicity in vitro : Test Type: Reverse Mutation Array
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

|| 2- Methylundecanal:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

|(Ethoxymethoxy)cyclododecanal:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Test Type: In Vitro Mammalian Cell Micronucleus Test
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD 487
Result: negative
GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: V79 cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD 473
Result: negative
GLP: yes

|| 2,4-Dimethylcyclohex-3-ene-1-carbaldehyde:

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Genotoxicity in vitro

: Test Type: Ames test

Test system: TA98

Metabolic activation: with and without metabolic activation

Method: OECD 471

Result: negative

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version	Revision Date:	SDS Number:	Date of last issue: 02.05.2022
3.0	01.06.2022	906603	Date of first issue: 01.04.2022

GLP: yes

Test Type: Ames test
Test system: TA100
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Test Type: Ames test
Test system: TA1535
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Test Type: Ames test
Test system: TA1537
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

|| 3,7-Dimethylnona-1,6-di n-3-ol:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

|| α -Methylcinnamaldehyde:

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male and female)
Cell type: Bone marrow
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474
Result: negative
GLP: No information available.

|| 2,4,6-Trimethylcyclohex-3-enecarbaldehyde:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

|| Cineole:

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Genotoxicity in vitro

: Test Type: Ames test

Metabolic activation: with and without metabolic activation

Method: OECD 471

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

Result: negative
GLP: No information available.

Test Type: In vitro Mammalian Chromosome Aberration Test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Result: negative
GLP: No information available.

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Rat (male and female)
Application Route: Oral
Method: OECD 474
Result: negative
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

|| Eugenol:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: No information available.

Test Type: In vitro Mammalian Chromosome Aberration Test
Method: OECD 473
Result: positive
GLP: No information available.

Test Type: In vitro Mammalian Cell Gene Mutation Test
Method: OECD 476
Result: positive
GLP: No information available.

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male)
Method: OECD 474
Result: negative
GLP: No information available.

|| Cinnamaldehyde:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Test Type: In vitro Mammalian Chromosome Aberration Test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

GLP: yes

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

Test Type: In vitro Mammalian Cell Gene Mutation Test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

|| Pin-2(3)-ene:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

|| 2,6,10-Trimethylundec-9-enal:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

|| Linalyl acetate:

Species : Rat, male and female
NOAEL : 160 mg/kg
Application Route : Oral
Exposure time : 28 d
Number of exposures : daily
Method : OECD Test Guideline 407
GLP : yes

Species : Rat, male and female
NOAEL : 250 mg/kg
Application Route : Dermal
Exposure time : 91 d
Number of exposures : daily
Method : OECD Test Guideline 411
GLP : yes

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

|| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one:

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version	Revision Date:	SDS Number:	Date of last issue: 02.05.2022
3.0	01.06.2022	906603	Date of first issue: 01.04.2022

Species	: Rat, male and female
NOAEL	: 120 mg/kg bw/day
Application Route	: Oral
Exposure time	: 91 d
Control Group	: yes
Method	: OECD Test Guideline 408
GLP	: yes
Target Organs	: Liver, spleen

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Components:

|| Linalyl acetate:

Toxicity to fish	: LC50 (Cyprinus carpio (Carp)): 11 mg/l End point: mortality Exposure time: 96 h Test Type: flow-through test Analytical monitoring: yes Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 59 mg/l End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	: EC10 (Desmodesmus subspicatus (green algae)): 54,3 mg/l End point: Growth rate Exposure time: 96 h Test Type: static test Analytical monitoring: no Method: DIN 38412 (part 9) GLP: no

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

EC50 (Desmodesmus subspicatus (green algae)): 156,7 mg/l
End point: Growth rate
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 (part 9)
GLP: no

Toxicity to microorganisms : EC20 (Activated sludge): > 1.000 mg/l
End point: Respiration inhibition
Exposure time: 0,5 h
Test Type: static test
Analytical monitoring: no
Method: ISO 8192
GLP: no

|| 3,7-Dimethyloctan-3-ol:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 8,9 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 14,2 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 21,6 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 (part 9)
GLP: no

EC10 (Desmodesmus subspicatus (green algae)): 9,5 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 (part 9)
GLP: no

Toxicity to microorganisms : EC10 (Pseudomonas putida): 450 mg/l
End point: Respiration inhibition
Exposure time: 0,5 h
Test Type: static test

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

Analytical monitoring: no
Method: DIN 38412 (part 27)
GLP: no

|| 2,6-Dimethyloct-7-en-2-ol:

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna*): 38 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (*Desmodesmus subspicatus* (green algae)): 80 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

NOEC (*Desmodesmus subspicatus* (green algae)): 25 mg/l
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

|| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one:

Toxicity to fish : LC50 (*Lepomis macrochirus* (Bluegill sunfish)): 1,3 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 1,38 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (*Desmodesmus subspicatus* (green algae)): > 2,6 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

- NOEC (Desmodesmus subspicatus (green algae)): $\geq 2,6$ mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
- Toxicity to microorganisms : NOEC (Activated sludge): > 100 mg/l
Exposure time: 42 d
Test Type: static test
Method: OECD 301F
GLP: yes
- Toxicity to fish (Chronic toxicity) : NOEC: 0,16 mg/l
End point: mortality
Exposure time: 30 d
Species: Danio rerio (zebra fish)
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 210
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,028 mg/l
End point: Reproduction rate
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD 211
GLP: yes
- M-Factor (Chronic aquatic toxicity) : 1

|| 2-Methylundecanal:

- M-Factor (Acute aquatic toxicity) : 1
- M-Factor (Chronic aquatic toxicity) : 1

|| (Ethoxymethoxy)cyclododecane:

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): 1,9 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 1,6 mg/l

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

- aquatic invertebrates End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 2 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
- NOEC (Pseudokirchneriella subcapitata (green algae)): 0,89 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
- Toxicity to microorganisms : NOEC (Activated sludge): >= 1.000 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Analytical monitoring: no
Method: OECD 209
GLP: yes

|| 2,4-Dimethylcyclohex-3-ene-1-carbaldehyde:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 7,5 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 22,4 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: Directive 67/548/EEC, Annex V, C.2.
GLP: yes

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Toxicity to algae/aquatic plants : EC50 (*Desmodesmus subspicatus* (green algae)): 31 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

Method: OECD Test Guideline 201
GLP: yes

NOEC (Desmodesmus subspicatus (green algae)): 10 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

|| 3,7-Dimethylnona-1,6 dien-3-ol:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 24 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 23 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 25,1 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

NOEC (Desmodesmus subspicatus (green algae)): 6,3 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

|| α -Methylcinnamaldehyde:

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1,7 mg/l
End point: mortality
Exposure time: 96 h
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna Straus): 9,9 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to microorganisms : EC50 (Activated sludge): ca. 366 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Method: OECD 209
GLP: yes

EC10 (Activated sludge): ca. 76,53 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Method: OECD 209
GLP: yes

|| 2,4,6-Trimethylcyclohex-3-enecarbaldehyde:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 11 mg/l
Exposure time: 48 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 3 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

EC10 (Pseudokirchneriella subcapitata (green algae)): 1,1 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

|| Cineole:

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 57 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

-
- Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 74 mg/l
End point: Growth rate
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
- Toxicity to microorganisms : EC50 (Activated sludge): > 100 mg/l
End point: Growth inhibition
Exposure time: 3 h
Test Type: static test
Analytical monitoring: no
Method: OECD 209
GLP: yes

||| [3R-(3 α ,3 β ,7 β ,8 α)]-2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 0,044 mg/l
Exposure time: 48 h

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 10

||| 1-Methyl-4-(4-methylpentyl)cyclohex-3-ene-1-carbaldehyde:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,17 mg/l
Exposure time: 48 h
Test Type: semi-static test
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 1,8 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

Eugenol:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 13 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,13 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 24 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

Cinnamaldehyde:

Toxicity to fish : LC50 (Zebrafish (Brachydanio rerio)): 2,35 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: Directive 67/548/EEC, Annex V, C.1.
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3,21 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: no
Remarks: Weight of Evidence

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 31,6 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: no
Remarks: Weight of Evidence

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Toxicity to microorganisms : EC50 (Activated sludge): 71 mg/l
End point: Respiration inhibition
Exposure time: 3 h

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

Test Type: static test
Method: ISO 8192
GLP: yes

|| Pin-2(3)-ene:

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

|| 2,6,10-Trimethylundec-9-enal:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0,609 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

LC50 (Oncorhynchus mykiss (rainbow trout)): > 0,474 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 0,9 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 0,588 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

EC10 (Pseudokirchneriella subcapitata (green algae)): 0,288 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

M-Factor (Acute aquatic toxicity) : 1

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

M-Factor (Chronic aquatic) : 1

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

toxicity)

|| [3R-(3 α ,3 β ,7 β ,8 α)]- Octahydro-3,8,8-trimethyl-6-methyle ne-1H-3a,7-methanoazulene:

Toxicity to fish : LC50 (Fish): 0,042 mg/l
Exposure time: 96 h

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 10

(2-Methoxymethylethoxy)propanol:

Toxicity to fish : LC50 (Fathead minnow (*Pimephales promelas*)): > 10.000 mg/l

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna*): 1.919 mg/l

Toxicity to algae/aquatic plants : EC50 (*Scenedesmus capricornutum* (fresh water algae)): > 969 mg/l
Exposure time: 96 h

12.2 Persistence and degradability

Components:

|| Linalyl acetate:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 76 %
Exposure time: 28 d
Method: OECD 301F
GLP: no

|| 3,7-Dimethyloctan-3-ol:

Biodegradability : Test Type: Sturm test, OECD 301-B, (CO₂):
Result: Readily biodegradable.
Biodegradation: 100 %
Exposure time: 28 d
Method: OECD 301B
GLP: yes

Test Type: Manometric respiration test
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 60 - 70 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

I 2,6-Dimethyloct-7-en-2-ol:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge, non-adapted
Result: Readily biodegradable.
Biodegradation: 72 %
Exposure time: 28 d
Method: OECD 301B
GLP: yes

II 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one:

Biodegradability : Test Type: MITI Test II
Result: Not inherently biodegradable.
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD 302C
GLP: yes

Result: Product is not persistent.
Remarks: Weight of Evidence

III [3R-(3 α ,3 β ,6 α ,7 β ,8 α)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene:

Biodegradability : Test Type: MITI Test II
Result: Inherently biodegradable.
Biodegradation: 98 %
Exposure time: 28 d
Method: OECD 302C
GLP: yes

III 2- Methylundecanal:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 68 %
Exposure time: 22 d
Method: OECD 301F
GLP: yes

III (Ethoxymethoxy)cyclododecane:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: < 5 %
Exposure time: 28 d
Method: OECD 301B
GLP: yes

III 2,4-Dimethylcyclohex-3-ene-1-carbaldehyde:

Biodegradability : Test Type: MITI Test I
Result: Not readily biodegradable.
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD 301C
GLP: yes

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

3,7-Dimethylnona-1,6-dien-3-ol:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 91 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: no

α -Methylcinnamaldehyde:

Biodegradability : Test Type: Closed Bottle test
Result: Readily biodegradable.
Biodegradation: 63 %
Exposure time: 28 d
Method: OECD 301D
GLP: yes

2,4,6-Trimethylcyclohex-3-enecarbaldehyde:

Biodegradability : Test Type: Closed Bottle test
Result: Not readily biodegradable.
Biodegradation: 10 %
Exposure time: 28 d
Method: OECD 301D
GLP: yes

Dodecanal:

Biodegradability : Test Type: Manometric respiration test
Result: not readily biodegradable (only 10 day window failed)
Biodegradation: 73 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

Cineole:

Biodegradability : Test Type: Manometric Respirometry Test
Result: Readily biodegradable.
Biodegradation: 82 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

[3R-(3 α ,3 β ,7 β ,8 α)]-2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 78 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

[1AS-(1 α ,4 α ,8 α R*)]-1,1a,4,4a,5,6,7,8-octahydro-2,4a,8,8-tetramethylcyclopropa d]naphthalene:

Biodegradability : Test Type: Manometric respiration test
Result: Not readily biodegradable.
Biodegradation: 56 %
Exposure time: 60 d
Method: OECD 301F
GLP: yes

1-Methyl-4-(4-methylpetyl)cyclohex-3-ene-1-carbaldehyde:

Biodegradability : Test Type: Manometric respiration test
Result: Inherently biodegradable.
Biodegradation: 65 %
Exposure time: 60 d
Method: OECD 301F
GLP: yes

Eugenol:

Biodegradability : Test Type: Closed Bottle test
Result: Readily biodegradable.
Biodegradation: 82 %
Exposure time: 28 d
Method: OECD 301D
GLP: yes

(R)-p-mentha-1,8-diene; d-limonene:

Biodegradability : Test Type: CO2 Evolution Test
Result: Readily biodegradable.
Biodegradation: 71 %
Exposure time: 28 d
Method: OECD 301B
GLP: yes

Cinnamaldehyde:

Biodegradability : Test Type: Modified OECD screening test
Result: Readily biodegradable.
Biodegradation: 100 %
Exposure time: 28 d
Method: OECD 301E
GLP: yes

Pin-2(3)-ene:

Biodegradability : Test Type: Closed Bottle test
Result: Readily biodegradable.
Biodegradation: 68 %
Exposure time: 28 d
Method: OECD 301D
GLP: yes

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

|| 2,6,10-Trimethylundec-9-enal:

Biodegradability : Test Type: Manometric respiration test
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 84 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

|| [3R-(3 α ,3 β ,7 β ,8 α)]-Octahydro-3,8,8-trimethyl-6-methylene-1H-3a,7-methanoazulene:

Biodegradability : Result: Readily biodegradable.
Remarks: Information given is based on data obtained from similar substances.

(2-Methoxymethylethoxy)propanol:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 96 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

12.3 Bioaccumulative potential

Components:

|| Linalyl acetate:

Partition coefficient: n-octanol/water : log Pow: 3,9 (25 °C)
Method: OECD Test Guideline 107
GLP: yes

|| 3,7-Dimethyloctan-3-ol:

Partition coefficient: n-octanol/water : log Pow: 3,3 (20 °C)
Method: OECD Test Guideline 107
GLP: yes

|| 2,6-Dimethyloct-7-en-2-ol:

Partition coefficient: n-octanol/water : log Pow: 3,25 (40 °C)
pH: 7
Method: OECD 117
GLP: yes

|| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
Exposure time: 21 d
Bioconcentration factor (BCF): 600
Method: OECD Test Guideline 305
GLP: yes

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Partition coefficient: n- : log Pow: 5,65 (30 °C)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

octanol/water Method: OECD 117
GLP: yes

[3R-(3 α ,3 β ,6 α ,7 β ,8 α)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene:

Partition coefficient: n-octanol/water : log Pow: 5,4

2-Methylundecanal:

Partition coefficient: n-octanol/water : log Pow: 4,7
Remarks: calculated

(Ethoxymethoxy)cyclo odecane :

Bioaccumulation : Species: Cyprinus carpio (Carp)
Exposure time: 28 d
Bioconcentration factor (BCF): 340 - 580
Method: OECD Test Guideline 305
GLP: yes

Partition coefficient: n-octanol/water : log Pow: 5,4 (25 °C)
Method: OECD Test Guideline 123
GLP: yes

2,4-Dimethylcyclohex-3-ene-1-carbaldehyde:

Partition coefficient: n-octanol/water : log Pow: 2,7 (25 °C)
Method: OECD Test Guideline 117
GLP: yes

3,7-Dimethylnona-1,6-dien-3-ol:

Partition coefficient: n-octanol/water : log Pow: 3,3
Method: OECD Test Guideline 107
GLP: yes

α -Methylcinnamaldehyde:

Partition coefficient: n-octanol/water : log Pow: 2,471 (25 °C)
pH: 7 - 8
Method: OECD Test Guideline 123
GLP: No information available.

2,4,6-Trimethylcyclohex-3-enecarbaldehyde:

Partition coefficient: n-octanol/water : log Pow: 2,87

Dodecanal:

Partition coefficient: n-octanol/water : log Pow: 6

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

|| Cineole:

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version	Revision Date:	SDS Number:	Date of last issue: 02.05.2022
3.0	01.06.2022	906603	Date of first issue: 01.04.2022

Partition coefficient: n-octanol/water : log Pow: 3,4
Method: OECD 117
GLP: yes

|| [3R-(3 α ,3 β ,7 β ,8 α)]-2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene:

Partition coefficient: n-octanol/water : log Pow: 6,09
Remarks: calculated

|| 1- Methyl-4-(4-methylpentyl)cyclohex-3-ene-1-carbaldehyde:

Partition coefficient: n-octanol/water : log Pow: 5,27
Remarks: calculated

|| Eugenol:

Partition coefficient: n-octanol/water : log Pow: 1,83 (30 °C)
pH: 5,5
Method: OECD 117
GLP: no

|| Cinnamaldehyde:

Partition coefficient: n-octanol/water : log Pow: 2,107 (25 °C)
Method: OECD 117
GLP: no

|| Pin-2(3)-ene:

Partition coefficient: n-octanol/water : log Pow: 5,7 (35 °C)

|| 2,6,10-Trimethylundec-9-enal:

Partition coefficient: n-octanol/water : log Pow: 6,2 (35 °C)
pH: 7
Method: OECD 117
GLP: yes

(2-Methoxymethylethoxy)propanol:

Partition coefficient: n-octanol/water : log Pow: 1,01

12.4 Mobility in soil

Components:

|| 2,6-Dimethyloct-7-en-2-ol:

Distribution among environmental compartments : Medium: Soil
Koc: 177,83, log Koc: 2,25
Method: OECD 121

|| (Ethoxymethoxy)cyclododecane:

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Distribution among environ- : Adsorption/Soil

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version	Revision Date:	SDS Number:	Date of last issue: 02.05.2022
3.0	01.06.2022	906603	Date of first issue: 01.04.2022

mental compartments log Koc: 4,165
Remarks: calculated

|| 2,4-Dimethylcyclohex-3-ene-1-carbaldehyde:

Distribution among environ- : Adsorption/Soil
mental compartments Medium: Soil
log Koc: 2,2
Method: OECD 121

|| Cineole:

Distribution among environ- : Adsorption/Soil
mental compartments Medium: Sludge
log Koc: 2,33
Method: OECD 121

|| Cinnamaldehyde:

Distribution among environ- : Adsorption/Soil
mental compartments Medium: Soil
log Koc: 1,958
Method: OECD 121

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

||(Ethoxymethoxy)cyclododecane:

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

mation

12.7 Other adverse effects

Product:

Additional ecological infor-

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

: An environmental hazard
cannot be excluded in the
event of unprofessional
handling or disposal.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

Toxic to aquatic life with long lasting effects.

Components:

|| 3,7-Dimethyloctan-3-ol:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

|| 2,6-Dimethyloct-7-en-2-ol:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

|| [3R-(3 α ,3 α β ,6 α ,7 β ,8 α)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

|| 2- Methylundecanal:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

|| (Ethoxymethoxy)cyclododecan :

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

|| 2,4-Dimethylcyclohex-3-ene-1-carbaldehyde:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

|| 3,7-Dimethylnona-1,6-dien-3-ol:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

|| 1-Methyl-4-(4-methylpentyl)cyclohex-3-ene-1-carbaldehyde:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

|| Cinnamaldehyde:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

|| 2,6,10-Trimethylundec-9-en I:

Additional ecological information: An environmental hazard cannot be excluded in the event of

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version	Revision Date:	SDS Number:	Date of last issue: 02.05.2022
3.0	01.06.2022	906603	Date of first issue: 01.04.2022

IMDG : 9
IATA : 9

14.4 Packing group

ADR

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)

RID

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

IMDG

Packing group : III
Labels : 9
EmS Code : F-A, S-F

IATA (Cargo)

Packing instruction (cargo aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Miscellaneous

IATA_P (Passenger)

Packing instruction (passenger aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Miscellaneous

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Cargo)

Environmentally hazardous : yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:
Number on list 3

Isocyclocitral (Number on list 3)
2,6,10-Trimethylundec-9-enal (Number on list 3)
Cinnamaldehyde (Number on list 3)
 α -Methylcinnamaldehyde (Number on list 3)
(Ethoxymethoxy)cyclododecane (Number on list 3)
2-Methylundecanal (Number on list 3)
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (Number on list 3)
3,7-Dimethylnona-1,6-dien-3-ol (Number on list 3)
[3R-(3 α ,3 α β ,6 α ,7 β ,8 α)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene (Number on list 3)
1-Methyl-4-(4-methylpentyl)cyclohex-3-ene-1-carbaldehyde (Number on list 3)
3,7-Dimethyloctan-3-ol (Number on list 3)
Terpineol (Number on list 3)
Linalyl acetate (Number on list 3)
Bornan-2-one (Number on list 40)
Dodecanal (Number on list 3)
2,4-Dimethylcyclohex-3-ene-1-carbaldehyde (Number on list 3)
Juniper, *Juniperus virginiana*, ext. (Number on list 3)
Decanal (Number on list 3)
2,6-Dimethylheptan-2-ol (Number on list 3)
2,6-Dimethyloct-7-en-2-ol (Number on list 3)
Fir, *Abies sibirica*, ext. (Number on list 40, 3)
Eucalyptus globulus, ext. (Number on list 40, 3)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0	Revision Date: 01.06.2022	SDS Number: 906603	Date of last issue: 02.05.2022 Date of first issue: 01.04.2022
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REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E2	ENVIRONMENTAL HAZARDS	Quantity 1 200 t	Quantity 2 500 t
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Water hazard class (Germany) : WGK 2 obviously hazardous to water
Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : Total dust:
Not applicable
Inorganic substances in powdered form:
Not applicable
Inorganic substances in vapour or gaseous form:
Not applicable
Organic Substances:
portion Class 1: 0,24 %

Carcinogenic substances:
portion Class 3: < 0,01 %

Mutagenic:
Not applicable
Toxic to reproduction:
Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 77,91 %

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements

H226	: Flammable liquid and vapour.
H302	: Harmful if swallowed.
H304	: May be fatal if swallowed and enters airways.
H312	: Harmful in contact with skin.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

H315

: Causes skin irritation.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version	Revision Date:	SDS Number:	Date of last issue: 02.05.2022
3.0	01.06.2022	906603	Date of first issue: 01.04.2022

H317 : May cause an allergic skin reaction.
H319 : Causes serious eye irritation.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.
H411 : Toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard
Asp. Tox. : Aspiration hazard
Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation
91/322/EEC : Europe. Commission Directive 91/322/EEC on establishing indicative limit values
DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.
DFG : Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).
EU SCOEL : EU. Scientific Committee on Occupational Exposure Limit Values (SCOELs), European Commission - SCOEL, as amended
91/322/EEC / TWA : Time weighted average
DE TRGS 900 / AGW : Exposure limit(s):
DFG / MAK : Maximum allowable concentration:
EU SCOEL / TWA : Time weighted average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

MISTLETOE & WHITE CEDAR

Version 3.0 Revision Date: 01.06.2022 SDS Number: 906603 Date of last issue: 02.05.2022
Date of first issue: 01.04.2022

Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Skin Irrit. 2	H315
Skin Sens. 1	H317
Aquatic Chronic 2	H411

Classification procedure:

Calculation method
Calculation method
Calculation method

The data contained in this Safety Data Sheet is accurate to the best knowledge of Candle Supply Pty Ltd, applies to the product as supplied Candle Supply Pty Ltd, and does not relate to use in combination with any other material or in any process. Data and information is furnished without warranty expressed or implied, nor does Candle Supply Pty Ltd, assume responsibility for use or reliance upon this data.

This SDS is current to the date listed above. However, the GHS classifications may change due to hazard communication updates by the overseeing governing body. For the most current SDS information please contact customerservice@candlesupply.com.au