

Safety Data Sheet Mermaid Waters Candle Revision 1, Date 07/04/2022

Regulation (EC) No. 1907/2006

# 1. IDENTIFICATION

**Product Name:** Mermaid Waters Candle

Other Names: Product Use Description:

Product Use Description: Fragrance mix
Contact Information:

Organisation	Location	Telephone	Ask For
Adelaide Moulding and Candle Supplies	7 Woodlands Terrace Edwardstown, South Australia, 5039	08 8294 0451	SDS Officer
Poisons Information Centre		13 11 26	

# 2. HAZARD IDENTIFICATION

Classification of Substance: Skin irritation, Category 2

Eye irritation, Category 2 Skin sensitisation, Category 1

Long-term (chronic) aquatic hazard, Category 2

H315: Causes skin irritation.
H319: Causes serious eye irritation.
H317: May cause an allergic skin reaction.

H411: Toxic to aquatic life with long lasting effects.

Labelling (REGULATION (EC) No 1272/2008)

### Hazard Pictogram(s):



Signal Word: WARNING

Hazard Statements (s): H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements(s): Prevention:

P261, Avoid breathing vapour or dust. P264, Wash skin thoroughly after handling. P273, Avoid release to the environment.

P280, Wear protective gloves/ eye protection/ face protection.

Response:

P333/313, If skin irritation or rash occurs: Get medical advice/attention. P337/313, If eye irritation persists: Get medical advice/attention

P391, Collect spillage.

Hazardous component which Linalyl acetate

must be listed on the label: linalool; 3,7-o

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool

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

7-Hydroxycitronellal

3-(p-Ethylphenyl)-2,2-dimethylpropionaldehyde

 $\alpha\text{-Hexylcinnamaldehyde}$ 

3-p-Cumenyl-2-methylpropionaldehyde 3-(o-Ethylphenyl)-2,2-dimethylpropionaldehyde

4-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde Octahydro-8,8-dimethylnaphthalene-2-carbaldehyde

Pin-2(10)-ene

I-carvone; (5R)-2-methyl-5- (prop-1-en-2-yl)cyclohex-2-en- 1-one

Cineole

#### Other Hazards:

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (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.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixtures:

EC No	CAS No	Description	GHS Classification	Concentration (%w/w)
204-116-4	115-95-7	Linalyl acetate	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 1 - < 10
201-134-4	78-70-6	linalool; 3,7-dimethyl-1,6- octadien-3-ol; dl-linalool	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 1 - < 10
204-402-9	120-51-4	benzyl benzoate	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 2; H411  Acute toxicity estimate Acute dermal toxicity: 4.000 mg/kg	>= 1 - < 2,5
227-813-5	5989-27-5	(R)-p-mentha-1,8-diene; dlimonene	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2,5
203-518-7	107-75-5	7-Hydroxycitronellal	Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 1 - < 10
202-859-9	100-51-6	benzyl alcohol	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319	>= 1 - < 10
266-819-2	67634-15-5	3-(p-Ethylphenyl)-2,2- Dimethylpropionaldehyde	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 1 - < 2,5
202-680-6	98-55-5	p-Menth-1-en-8-ol	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - < 10
405-040-6	63500-71-0	tetrahydro-2-isobutyl-4- methylpyran-4-ol, mixed isomers (cis and trans)	Eye Irrit. 2; H319	>= 1 - < 10
202-983-3	165184-98-5 101-86-0	α-Hexylcinnamaldehyde	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 0,25 - < 1
203-161-7	103-95-7	3-p-Cumenyl-2- Methylpropionaldehyde	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 3; H412	>= 0,25 - < 1

266-818-7	67634-14-4	3-(o-Ethylphenyl)-2,2- dimethylpropionaldehyde	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 0,25 - < 1
265-745-8	65405-77-8	(Z)-3-Hexenyl salicylate	Aquatic Acute 1; H400  M-Factor (Chronic aquatic toxicity): 1	>= 0,25 - < 1
250-863-4	31906-04-4	4-(4-hydroxy-4- methylpentyl)cyclohex-3-ene-1- carbaldehyde	Skin Sens. 1A; H317	>= 0,1 - < 1
272-119-8	68738-94-3 68738-96-5	Octahydro-8,8-dimethylnaphthalene-2-carbaldehyde	Skin Sens. 1B; H317 Aquatic Chronic 2; H411	>= 0,25 - < 1
204-872-5	127-91-3 18172-67-3	Pin-2(10)-ene	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,1 - < 0,25
229-352-5	6485-40-1 99-49-0	I-carvone; (5R)-2-methyl-5- (prop1-en-2-yl)cyclohex-2-en- 1-one	Acute Tox. 4; H302 Skin Sens. 1B; H317 Acute toxicity estimate Acute oral toxicity: 1.640 mg/kg	>= 0,1 - < 1
207-431-5	470-82-6	Cineole	Flam. Liq. 3; H226 Skin Sens. 1B; H317	>= 0,1 - < 1

For explanation of abbreviations see section 16.

#### 4. 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

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 respiration.

Skin Contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms

persist, call a physician.

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.

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.

Most important symptoms and

effects:

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. First aider needs to protect

himself.

Indication of any immediate Medical attention and special

treatment needed:

The first aid procedure should be established in consultation with the doctor responsible

for industrial medicine. There is no specific antidote available.

# **FIRE FIGHTING MEASURES**

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

Unsuitable extinguishing media: High volume water jet

Hazardous Combustion Products: No hazardous combustion products are known.

Advice for Fire Fighters: Special protective equipment in the event of fire, wear self-contained breathing apparatus.

> 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.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions and Protective Equipment:** 

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

**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 river and lakes or drains inform respective authorities.

Methods and Suitable materials for containment and cleaning up: Soak up with inert absorbent material (sand, silica gel, acid binder, universal binder, sawdust). Keep

in suitable, close container for disposal.

#### 7. HANDLING AND STORAGE

Safe Handling Precautions: Avoid formation of aerosol. For personal protection see section 8. Smoking, eating, and drinking should be

> prohibited in the application areas. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. Normal measures for preventive fire protection. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

Storage conditions: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re-

> sealed and kept upright to prevent leakage. Electrical installation/working material must comply with the technological safety standards. No special restriction on storage with other products. Storage class (TRGS 510) 10,

combustible liquids. No decomposition if stored and applied as directed.

Specific end use(s): Fragrance mix.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace exposure limits:

Ingredient	CAS	Value type (Form of exposure)	Control	Basis
			parameters	
(R)-p-mentha-1,8-	5989-27-5	MAK	5 ppm	DFG
diene; d-limonene			28 mg/m3	
		AGW	5 ppm 28 mg/m3	DE TRGS 900
benzyl alcohol	100-51-6	MAK (Vapor and aerosol)	5 ppm 22 mg/m3	DFG
		AGW (Vapor and aerosol)	5 ppm 22 mg/m3	DE TRGS 900

Further information: Sum of vapours and aerosols

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

Substance name	End Use	Exposure routes	Potential health effects	Value
I-carvone; (5R)-2- methyl-5- (prop-1-en2- yl)cyclohex-2-en- 1- one	Workers	Inhalation	Long-term systemic effect	0,685 mg/m3
	Workers	Skin contact	Long-term systemic Effects	0,194 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic	0,121 mg/m3

			Effects	
	Consumers	Skin contact	Long-term systemic effect	69,4 mg/kg/bw/day
	Consumers	Ingestion	Long-term systemic effects	69,4 mg/kg/bw/day
benzyl alcohol	Workers	Inhalation	Acute systemic effects	110 mg/m3
	Workers	Inhalation	Long-term systemic effects	22 mg/m3
	Workers	Skin contact	Acute systemic effects	40 mg/kg/bw/day
	Workers	Skin contact	Long-term systemic effect	8 mg/kg/ bw/day
	Consumers	Inhalation	Long-term systemic effect	5,4 mg/m3
	Consumers	Inhalation	Acute systemic effects	27 mg/m3
	Consumers	Skin contact	Long-term systemic effect	4 mg/kg/bw/day
	Consumers	Skin contact	Acute systemic effects	20 mg/kg/bw/day
	Consumers	Ingestion	Long-term systemic effect	4 mg/kg/bw/day
	Consumers	Ingestion	Acute systemic effects	20 mg/kg/bw/day
(Z)-3-Hexenyl salicylate	Workers	Inhalation	Long-term systemic effect	1,59 mg/m3
	Workers	Skin contact	Long-term systemic effect	0,9 mg/kg/bw/day
	Consumers	Inhalation	Long-term systemic effect	0,39 mg/m3
	Consumers	Skin contact	Long-term systemic effect	0,45 mg/kg/bw/day
	Consumers	Ingestion	Long-term systemic effect	0,23 mg/kg/bw/day

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

Substance name	Environmental Compartment	Value
l-carvone; (5R)-2-methyl-5-	Fresh water	0,0061 mg/l
(prop-1-en-2-yl)cyclohex-2-en-		
1-one		
	Fresh water sediment	0,192 mg/kg dry weight (d.w.)
	Marine water	0,000061 mg/l
	Marine sediment	0,019 mg/kg dry weight (d.w.)
	Sewage treatment plant	10 mg/l
	Soil	0,035 mg/kg dry weight (d.w.)
benzyl alcohol	Fresh water	1 mg/l
	Fresh water sediment	5,27 mg/kg wet weight
	Marine water	0,1 mg/l
	Marine sediment	0,527 mg/kg wet weigh
	Soil	0,456 mg/kg wet weight
	Sewage treatment plant	39 mg/l
(Z)-3-Hexenyl salicylate	Fresh water	0,00061 mg/l
	Fresh water sediment	0,11 mg/kg dry weight (d.w.)
	Marine water	0,000061 mg/l
	Marine sediment	0,011 mg/kg dry weight (d.w.)
	Sewage treatment plant	10 mg/l
	Soil	0,022 mg/kg dry weight (d.w.)

### **Exposure Controls**

**Eye protection** Eye was bottle with pure water.

Tightly fitting safety goggles.

Wear face-shield and protective suit for abnormal processing problems.

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). As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use. 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.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Clear liquid

Colorless to yellow-green

Aroma/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 many form explosive mixtures with air

Lower explosion limit/

Lower flammability limit: Vapours may form explosive mixtures with air

Flash point: 97 °C

**Decomposition temperature:** Not determined **pH:** Not applicable

Viscosity:

DynamicNot determinedKinematicNot determined

Solubility (ies)

Water solubility: Immiscible

Partition coefficient:

n-octanol/water Not applicable

**Vapour pressure:** < 1 kPa (50 °C) calculated

**Relative density:** Relation to density of water at 4°C

0,9260 - 0,9360 (20 °C)

relation to density of water at 4°C

Bulk density: Not applicable
Relative vapour density: Not determined

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: Not applicable Molecular weight: Not applicable

#### 10. STABILITY AND REACTIVITY

**Reactivity Hazards:** No decomposition if stored and applied as directed.

Chemical Stability: No decomposition if stored and applied as directed.

**Hazardous Reactions:** No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

Conditions to Avoid: No data available.

Incompatibles: No data available

**Hazardous Decomposition** 

No hazardous decomposition products are known.

Products:

#### 11. TOXICOLOGICAL INFORMATION

Acute toxicity: Not classified based on available information.

Product:

Acute oral toxicity: Acute toxicity estimate: >2.000 mg/kg

Method: Calculation method

Acute inhalation toxicity: Acute toxicity estimate: >5mg/l

Exposure: 4h

Test atmosphere: dust/mist Method: Calculation method

#### 12. ECOLOGICAL INFORMATION

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

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

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:

**Toxicity to fish:** LC50 (Oncorhynchus mykiss (rainbow trout)): 27,8 mg/l

End point: mortality
Exposure time: 96 h
Test Type: static 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/

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 EC50 (Desmodesmus subspicatus (green algae)): 156,7 mg/l

plants: End point: Growth rate

Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 (part 9)

GLP: no

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

**Toxicity to microorganisms:** EC50 (Activated sludge): > 100 mg/l

End point: Respiration inhibition

Exposure time: 3 h Test Type: static test Analytical monitoring: yes Method: OECD 209

GLP: yes

benzyl benzoate:

Toxicity to fish: LC50 (Danio rerio (zebra fish)): 2,32 mg/l

End point: mortality Exposure time: 96 h Test Type: semi-static test

Method: Directive 67/548/EEC, Annex V, C.1.

GLP: yes

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna (Water flea)): 3,09 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)): 0,475 mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,247mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

**Toxicity to microorganisms:** EC50 (Activated sludge): > 10.000 mg/l

End point: Respiration inhibition

Exposure time: 3 h Test Type: static test

Method: OECD 209 / ISO 8192

GLP: yes

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity):

NOEC: 0,258 mg/l

End point: Reproduction rate

Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test

Method: OECD 211

GLP: yes

7-Hydroxycitronellal:

Toxicity to fish: LC50 (Golden orfe (Leuciscus idus)): 22 - 46 mg/l

Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna): 410 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

EC50 (Desmodesmus subspicatus (green algae)): 68 mg/l

plants:

Exposure time: 72 h

Toxicity to microorganisms:

EC10 (Pseudomonas putida): 625 mg/l

Exposure time: 17 h

benzyl alcohol:

Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): 460 mg/l

End point: mortality Exposure time: 96 h Test Type: static test Analytical monitoring: no Method: EPA OPP 72-1

GLP: no

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna): 230 mg/l End point: Immobilization Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants:

IC50 (Pseudokirchneriella subcapitata (green algae)): 770mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): 310mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

Toxicity to microorganisms: IC50 (Bacteria): 390 mg/l

Exposure time: 24 h
Test Type: static test
Analytical monitoring: no
Method: OECD 209 / ISO 8192

GLP: no

Toxicity to daphnia and other

aquatic invertebrates
(Chronic toxicity):

NOEC: 51 mg/l

End point: Reproduction rate

Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test Method: OECD 211

GLP: yes

p-Menth-1-en-8-ol:

ABN: 85 765 232 986

Toxicity to fish: LC50 (Danio rerio (zebra fish)): 70 mg/l

End point: mortality Exposure time: 96 h

Adelaide Moulding and Candle Supplies 7 Woodlands Terrace Edwardstown SA 5039 Phone: +61 8 8294 0451 Email: admin@amcsupplies.com.au Web: www.amcsupplies.com.au Page 9 of 6 Test Type: semi-static test Analytical monitoring: yes

Method: OECD Test Guideline 203

GLP: yes

Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other

EC50 (Daphnia magna (Water flea)): 73 mg/l

aquatic invertebrates:

End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202

GLP: yes

Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae/aquatic

EC50 (Pseudokirchneriella subcapitata (green algae)): 68 mg/l

plants:

End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201

GLP: yes

Remarks: Information given is based on data obtained from similar substances.

EC10 (Pseudokirchneriella subcapitata (green algae)): ca. 3,9 mg/l

End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201

GLP: yes

Remarks: Information given is based on data obtained from similar substances.

# tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans):

**Toxicity to fish:** LC50 (Oncorhynchus mykiss (rainbow trout)): 354 mg/l

End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other

EC50 (Daphnia magna (Water flea)): ca. 320 mg/l

aquatic invertebrates:

End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

plants:

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:

EC50 (Activated sludge): > 1.000 mg/l End point: Respiration inhibition

Exposure time: 3 h Test Type: static test Method: OECD 209

GLP: yes

Adelaide Moulding and Candle Supplies 7 Woodlands Terrace Edwardstown SA 5039 ABN: 85 765 232 986 Phone: +61 8 8294 0451 Email: admin@amcsupplies.com.au Web: www.amcsupplies.com.au Page 10 of 6 α-Hexylcinnamaldehyde:

Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): ca. 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

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna): > 0,36 - < 0,59 mg/l

End point: Immobilization
Exposure time: 48 h
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants:

EC50 (Desmodesmus subspicatus (green algae)): > 0,065 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)): 0,065 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 daphnia and other

aquatic invertebrates (Chronic toxicity):

EC10: 0,069 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

NOEC: 0,063 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

3-p-Cumenyl-2-

methylpropionaldehyde:

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna): 1,4 mg/l

Exposure time: 48 h
Test Type: semi-static test

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

EC50 (Pseudokirchneriella subcapitata (green algae)): 3,8 mg/l Exposure time: 96 h

plants:

Test Type: static test

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Phone: +61 8 8294 0451 Email: admin@amcsupplies.com.au Web: www.amcsupplies.com.au Page 11 of 6 Method: OECD Test Guideline 201

GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,7 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

GLP: yes

Toxicity to microorganisms: EC50 (Activated sludge): ca. 100 mg/l

Exposure time: 3 h Test Type: static test Method: OECD 209

(Z)-3-Hexenyl salicylate:

Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): > 0,65 mg/l

End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 203

GLP: yes

Remarks: No effect in the area of water solubility of the substance

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna Straus): 0,6 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

EC50 (Desmodesmus subspicatus (green algae)): 0,61 mg/l

plants:

End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201

GLP: yes

EC10 (Desmodesmus subspicatus (green algae)): 0,19 mg/l

End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201

GLP: yes

M-Factor (Chronic aquatic

toxicity): 1

4-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde:

Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): 11,8 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD 203 / ISO 7346

GLP: yes

NOEC (Pimephales promelas (fathead minnow)): 8,21 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD 203 / ISO 7346

GLP: yes

Toxicity to algae/aquatic EC50 (selenastrum capricor): 13,8 mg

**plants:** Exposure time: 72 h

Test Type: static test

Method: OECD 201 / ISO 8692

GLP: yes

NOEC (selenastrum capricor): 5,95 mg/l

Exposure time: 72 h Test Type: static test

Method: OECD 201 / ISO 8692

GLP: yes

Octahydro-8,8-dimethylnaphthalene-2-carbaldehyde:

Toxicity to daphnia and other

EC50 (Daphnia magna (Water flea)): 3,479 mg/l

aquatic invertebrates: Exposure time: 48 h

Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

EC10 (Pseudokirchneriella subcapitata (green algae)): 6,971 mg/l

plants:

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

I-carvone; (5R)-2-methyl-5- (prop-1-en-2-yl)cyclohex-2-en- 1-one:

Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): 6,1 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

EL50 (Daphnia magna (Water flea)): 38 mg/l

aquatic invertebrates:

End point: Immobilization Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

EC50 (Pseudokirchneriella subcapitata (green algae)): 19 mg/l

plants:

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)): 4,3 mg/l

End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201

GLP: yes

Cineole:

**Toxicity to fish:** LC50 (Oncorhynchus mykiss (rainbow trout)): 57 mg/l

End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes

Method: OECD Test Guideline 203

GLP: yes

Adelaide Moulding and Candle Supplies 7 Woodlands Terrace Edwardstown SA 5039 ABN: 85 765 232 986 Phone: +61 8 8294 0451 Email: admin@amcsupplies.com.au Web: www.amcsupplies.com.au Page 13 of 6 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

EC50 (Pseudokirchneriella subcapitata (green algae)): > 74mg/l

plants:

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

#### **Persistence and Degradability Components:**

Linalyl acetate: **Test Type: Manometric respiration test** 

Biodegradability Result: Readily biodegradable.

> Biodegradation: 76 % Exposure time: 28 d Method: OECD 301F

GLP: no

linalool; 3,7-dimethyl-1,6octadien-3-ol; dl-linalool:

Biodegradability

Test Type: Closed Bottle test Result: Readily biodegradable. Biodegradation: 64,2 %

Exposure time: 28 d

Method: OECD 301D

GLP: yes

benzyl benzoate: Test Type: Manometric respiration test

Biodegradability Result: Readily biodegradable.

> Biodegradation: 94,4 % Exposure time: 28 d Method: OECD 301

GLP: yes

(R)-p-mentha-1,8-diene;

Test Type: CO2 Evolution Test d-limonene: Result: Readily biodegradable. Biodegradability Biodegradation: 71 %

Exposure time: 28 d Method: OECD 301B

GLP: yes

7-Hydroxycitronellal: Test Type: Sturm test, OECD 301-B, (CO2):

Biodegradability Result: Readily biodegradable.

Biodegradation: 93,7 % Exposure time: 28 d Method: OECD 301B

GLP: yes

benzyl alcohol: Test Type: DOC Die-Away Test Biodegradability Result: Readily biodegradable.

Biodegradation: 95 - 97 % Exposure time: 21 d Method: OECD 301A

Test Type: MITI Test I

Result: Readily biodegradable. Biodegradation: 92 - 96 % Exposure time: 14 d Method: OECD 301C

p-Menth-1-en-8-ol: Biodegradability

Test Type: Headspace Test Result: Readily biodegradable.

Biodegradation: 80 % Exposure time: 28 d Method: OECD 310 GLP: yes

Remarks: Information given is based on data obtained from similar substances.

tetrahydro-2-isobutyl-4-

methylpyran-4-ol,

Test Type: Closed Bottle test Result: Inherently biodegradable.

mixed isomers (cis and trans): Biodegradability

Biodegradation: 64,8 % Exposure time: 60 d Method: OECD 301D

GLP: no

Remarks: Weight of Evidence

α-Hexylcinnamaldehyde:

Test Type: Manometric Respirometry Test

Biodegradability

Result: Readily biodegradable. Biodegradation: 97 %

Exposure time: 28 d Method: OECD 301F

GLP: no

3-p-Cumenyl-2-

Test Type: CO2 Evolution Test methylpropionaldehyde: Result: Readily biodegradable.

> Biodegradation: 66 % Exposure time: 28 d Method: OECD 301B

GLP: No information available.

(Z)-3-Hexenyl salicylate:

Test Type: Manometric respiration test Result: Readily biodegradable.

Biodegradability

Biodegradation: 89 %

Exposure time: 28 d Method: OECD 301F

GLP: yes

4-(4-hydroxy-4methylpentyl)cyclohex-3Test Type: Closed Bottle test Result: Readily biodegradable. Biodegradation: 63 %

ene-1-carbaldehyde: Biodegradability

Exposure time: 28 d Method: OECD 301D

GLP: yes

Octahydro-8,8dimethylnaphthaleneTest Type: Headspace Test Result: Not readily biodegradable

2-carbaldehyde: Biodegradation: 1,4 % Biodegradability Exposure time: 60 d

Method: OECD Test Guideline 310

GLP: yes

Pin-2(10)-ene: Biodegradability Test Type: Manometric respiration test Result: Readily biodegradable.

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Phone: +61 8 8294 0451 Email: admin@amcsupplies.com.au Web: www.amcsupplies.com.au Page 15 of 6 Biodegradation: 81 % Exposure time: 28 d Method: OECD 301F

GLP: yes

I-carvone; (5R)-2-methyl-5-(prop-1-en-2-yl)cyclohexTest Type: Manometric respiration test Result: Readily biodegradable.

**2-en- 1-one:**Biodegradability

Biodegradation: 90 % Exposure time: 28 d Method: OECD 301F

Cineole:

Test Type: Manometric Respirometry Test

Biodegradability

Result: Readily biodegradable. Biodegradation: 82 % Exposure time: 28 d

Method: OECD 301F

GLP: yes

# Bioaccumulative potential components:

Linalyl acetate: log Pow: 3,9 (25 °C)

Partition coefficient: Method: OECD Test Guideline 107

n-octanol/water GLP: yes

linalool; 3,7-dimethyl-1,6-

log Pow: 2,84 (25 °C)

octadien-3-ol; dl-linalool:

Method: OECD Test Guideline 107

Partition coefficient:

GLP: no

n-octanol/water

benzyl benzoate:

log Pow: ca. 3,97 (25 °C)

Partition coefficient: n-octanol/water

7-Hydroxycitronellal: log Pow: 1,5

Partition coefficient:

Method: OECD Test Guideline 107

n-octanol/water

benzyl alcohol:

log Pow: 1,1

Partition coefficient: n-octanol/water

3-(p-Ethylphenyl)-2,2- Species: Cyprinus carpio (Carp)

**dimethylpropionaldehyde:** Exposure time: 28 d
Bioaccumulation: Concentration: 0,02 mg/l

Bioconcentration factor (BCF): < 9,4 Method: OECD Test Guideline 305

GLP: yes

Species: Cyprinus carpio (Carp)
Exposure time: 28 d
Concentration: 0,002 mg/l
Bioconcentration factor (BCF): < 92
Method: OECD Test Guideline 305

GLP: yes

tetrahydro-2-isobutyl-4- log Pow: ca. 1,65 (23 °C) methylpyran- pH: > 6,09 - < 6,74

4-ol, mixed isomers (cis and trans): Method: Regulation (EC) No. 440/2008, Annex, A.8

Partition coefficient: GLP: yes

n-octanol/water

**α-Hexylcinnamaldehyde:** log Pow: 5,3 (24 °C)
Partition coefficient: Method: OECD 117

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Edwardstown SA 5039 ABN: 85 765 232 986 Phone: +61 8 8294 0451 Email: admin@amcsupplies.com.au Web: www.amcsupplies.com.au Page 16 of 6 n-octanol/water GLP: yes

3-p-Cumenyl-2-

methylpropionaldehyde: log Pow: 3,4 (35 °C) Partition coefficient: Method: OECD 117

n-octanol/water GLP: yes

(Z)-3-Hexenyl salicylate: log Pow: 4,8 (25 °C)

Partition coefficient: pH: 7

n-octanol/water Method: OECD Test Guideline 117

GLP: yes

4-(4-hydroxy-4log Pow: 3,3 methylpentyl)cyclohex-Remarks: calculated 3-ene-1-carbaldehyde: log Pow: 3,32 Partition coefficient: Remarks: calculated

n-octanol/water

Octahydro-8,8log Pow: 5,13 (25 °C)

dimethylnaphthalenepH: 7,5

2-carbaldehyde: Method: OECD Test Guideline 107

Partition coefficient: GLP: yes

n-octanol/water

Pin-2(10)-ene: log Pow: 5,4 (35 °C)

Partition coefficient: n-octanol/water

I-carvone; (5R)-2-methyl-5log Pow: 2,73 (20 °C)

(prop-1-en-2-yl) GLP: yes

cyclohex-2-en- 1-one: Partition coefficient: n-octanol/water

Cineole: log Pow: 3,4

Partition coefficient: n-octanol/water

Mobility in soil components:

benzyl benzoate: Adsorption/Soil Distribution among Koc: 6310, log Koc: 3,8 Method: OECD 121 environmental compartments

tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans):

Distribution among Adsorption/Soil

environmental compartments Medium: Soil

Koc: ca. 25, log Koc: ca. 1,4

Method: OECD 121

 $\alpha$ -Hexylcinnamaldehyde: Adsorption/Soil Distribution among Medium: Soil log Koc: 4,2 environmental compartments

Method: OECD 121

Cineole: Adsorption/Soil Distribution among Medium: Sludge environmental compartments log Koc: 2,33

Method: OECD 121

PBT and vPvB Assessment

Product: This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic

(PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

Components:

Adelaide Moulding and Candle Supplies 7 Woodlands Terrace Edwardstown SA 5039 ABN: 85 765 232 986

Phone: +61 8 8294 0451 Email: admin@amcsupplies.com.au Web: www.amcsupplies.com.au Page 17 of 6 benzyl alcohol: 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).

**Endocrine disrupting properties:** 

**Product:** 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.

Other Adverse Effects

Product:

Additional ecological An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic

information: life with long lasting effects.

Components: 7-Hydroxycitronellal:

Additional ecological

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

information:

(Z)-3-Hexenyl salicylate:

Additional ecological An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to

information: aquatic lif

Octahydro-8,8-dimethylnaphthalene-2-carbaldehyde:

Additional ecological An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to

information: aquatic life with long lasting effects.

Pin-2(10)-ene:

Additional ecological An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic

information: life with long lasting effects.

I-carvone; (5R)-2-methyl-5- (prop-1-en-2-yl)cyclohex-2-en- 1-one:

Additional ecological

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

information:

13. DISPOSAL CONSIDERATIONS

Waste treatment methods: The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds,

waterways, or ditches with chemical or used container. Send to a licensed waste management company.

Contaminated packaging: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling

or disposal. Do not re-use empty containers.

14. TRANSPORT INFORMATION

UN Number: UN3082

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIMONENE, BENZYL BENZOATE)

Transport Hazard Class(es): 9

Packing Group:

Packing group III
Classification code M6
Hazard identification number 90
Labels 9
Tunnel restriction code (-)

**Environmental Hazards:** This is an environmentally hazardous substance.

**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.

Maritime transport in bulk

according to IMO instruments: Not Applicable for product as supplied.

### 15. REGULATORY INFORMATION

 ${\bf Safety, Health\ and\ Environmental\ Regulations\ Specific\ for\ the\ substance\ or\ mixture.}$ 

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations, and articles (Annex XVII):

Conditions of restriction for the following entries should be considered:

3-(o-Ethylphenyl)-2,2-dimethylpropionaldehyde (Number on list 3) 3-(p-Ethylphenyl)-2,2- dimethylpropionaldehyde (Number on list 3)

Linalyl acetate (Number on list 3)
(Z)-3-Hexenyl salicylate (Number on list 3)
benzyl benzoate (Number on list 3)
Spearmint, ext. (Number on list 3)
benzyl alcohol (Number on list 3)

3a,4,5,6,7,7a-Hexahydro-4,7- methano-1H-indenyl propionate (Number on list 3) 4-(4-hydroxy-4- methylpentyl)cyclohex-3-ene-1- carbaldehyde (Number on list 3)

3-p-Cumenyl-2- methylpropionaldehyde (Number on list 3)

p-Menth-1-en-8-ol (Number on list 3)

linalool; 3,7-dimethyl-1,6-octadien-3- ol; dl-linalool (Number on list 3)

 $\alpha,\alpha$ -Dimethylphenethyl acetate (Number on list 3)

Pin-2(10)-ene (Number on list 40, 3)  $\alpha$ -Hexylcinnamaldehyde (Number on list 3) Orange, sweet, ext. (Number on list 40, 3)

tetrahydro-2-isobutyl-4-methylpyran4-ol, mixed isomers (cis and trans) (Number on list 3)

Octahydro-8,8-dimethylnaphthalene2-carbaldehyde (Number on list 3)

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

7-Hydroxycitronellal (Number on list 3) 2,6-Dimethyloct-7-en-2-ol (Number on list 3) Peppermint, ext. (Number on list 3)

Lemon, ext. (Number on list 40, 3)

Eucalyptus globulus, ext. (Number on list 40, 3)

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

substances.

Ouantity 1 Ouantity 2

 Quantity 1
 Quantity 2

 E2
 ENVIRONMENTAL
 200t
 500t

HAZARDS

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: 1,94 %

Carcinogenic substances:

Not applicable 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: 11,73 %

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

applicable.

**Chemical safety assessment:** A Chemical Safety Assessment is not required for this substance.

# **16. OTHER INFORMATION**

#### **Further Information**

Abbreviation	Meaning
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
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).
DE TRGS 900 / AGW	Exposure limit(s):
DFG / MAK	Maximum allowable concentration:
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
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.
H332	Harmful if inhaled.
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.

#### **Further information**

Classification of mixture		Classification Procedure
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
Aquatic Chronic 2	H411	Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.