

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Duftöl 10ml Apfel Zimt =&lt; 125 ml

**Further trade names**

This MSDS covers the following products:

-91189 Duftöl 10ml Apfel Zimt

-50578 Duftöl 10ml Apfel Zimt

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Perfumes, fragrances

**Uses advised against**

Any non-intended use.

**1.3. Details of the supplier of the safety data sheet**

Company name: Promed GmbH  
Cosmetic Products,  
Lindenweg 11, 82490  
Farchant, Germany

Responsible Department:

Dr. Gans-Eichler  
Chemieberatung GmbH  
Raesfeldstr. 22  
D-48149 Münster

e-mail:  
Tel.:  
www.tge-consult.de

info@tge-consult.de  
+49(0)251/394868-69

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

a-methylcinnamaldehyde

cinnamaldehyde

eugenol

4-tert-Butylcyclohexyl acetate

Caryophyllene

ethyl 2,3-epoxy-3-phenylbutyrate

coumarin

2,4-Dimethyl-3-cyclohexene-1-carbaldehyde

1,8-Cineole

Cinnamonnitrile

cinnamyl alcohol

**Signal word:** Warning

**Pictograms:**

**Hazard statements**

- H317 May cause an allergic skin reaction.  
 H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

- P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P501 Dispose of contents/container to local/regional/national/international regulations.

**2.3. Other hazards**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**SECTION 3: Composition/information on ingredients**
**3.2. Mixtures**
**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
20298-69-5	cis-2-tert-butylcyclohexyl acetate			5 - < 10 %
	243-718-1		01-2119970713-33	
	Aquatic Chronic 2; H411			
101-39-3	a-methylcinnamaldehyde			5 - < 10 %
	202-938-8		01-2119538797-21	
	Skin Sens. 1; H317			
104-55-2	cinnamaldehyde			1 - < 5 %
	203-213-9		01-2119935242-45	
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H312 H315 H319 H317			
97-53-0	eugenol			1 - < 5 %
	202-589-1			
	Eye Irrit. 2, Skin Sens. 1B; H319 H317			
32210-23-4	4-tert-Butylcyclohexyl acetate			1 - < 5 %
	250-954-9		01-2119976286-24	
	Skin Sens. 1B; H317			
87-44-5	Caryophyllene			< 1 %
	201-746-1			
	Skin Sens. 1B, Asp. Tox. 1; H317 H304			
77-83-8	ethyl 2,3-epoxy-3-phenylbutyrate			< 1 %
	201-061-8			
	Skin Sens. 1B, Aquatic Chronic 2; H317 H411			
123-68-2	Allyl hexanoate			< 1 %
	204-642-4		01-2119983573-26	

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	Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Aquatic Acute 1, Aquatic Chronic 3; H331 H311 H301 H400 H412	
91-64-5	coumarin	< 1 %
	202-086-7	01-2119949300-45
	Acute Tox. 4, Skin Sens. 1, Aquatic Chronic 3; H302 H317 H412	
68039-49-6	2,4-Dimethyl-3-cyclohexene-1-carbaldehyde	< 1 %
	268-264-1	
	Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 2; H315 H317 H411	
470-82-6	1,8-Cineole	< 1 %
	207-431-5	
	Flam. Liq. 3, Skin Sens. 1; H226 H317	
1885-38-7	Cinnamonnitrile	< 1 %
	217-552-5	
	Acute Tox. 3, Acute Tox. 4, Skin Sens. 1; H301 H312 H317	
104-54-1	cinnamyl alcohol	< 1 %
	203-212-3	
	Skin Sens. 1B; H317	

Full text of H and EUH statements: see section 16.

### Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH).

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

#### After contact with skin

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

#### After contact with eyes

Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

#### After ingestion

Rinse mouth thoroughly with water. Let water be drunk in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. alcohol resistant foam. Atomized water.

**Unsuitable extinguishing media**

High power water jet.

**5.2. Special hazards arising from the substance or mixture**

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Co-ordinate fire-fighting measures to the fire surroundings.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

See protective measures under point 7 and 8.

**6.2. Environmental precautions**

Discharge into the environment must be avoided.

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

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

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Wear suitable protective clothing. See section 8.

**Advice on protection against fire and explosion**

Usual measures for fire prevention.

**Further information on handling**

General protection and hygiene measures: refer to chapter 8

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place.

**Advice on storage compatibility**

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

**Further information on storage conditions**

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Recommended storage temperature: 20°C

Protect against: Light. UV-radiation/sunlight. heat. moisture.

**7.3. Specific end use(s)**

refer to chapter 1.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

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**DNEL/DMEL values**

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
101-39-3	a-methylcinnamaldehyde		
Worker DNEL, long-term	inhalation	systemic	13.3 mg/m <sup>3</sup>
Worker DNEL, long-term	inhalation	local	13.3 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	2.21 mg/kg bw/day
Worker DNEL, long-term	dermal	local	3.5 mg/cm <sup>2</sup>
Consumer DNEL, long-term	inhalation	systemic	3.27 mg/m <sup>3</sup>
Consumer DNEL, long-term	inhalation	local	3.27 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	1.11 mg/kg bw/day
Consumer DNEL, long-term	dermal	local	3.5 mg/cm <sup>2</sup>
Consumer DNEL, long-term	oral	systemic	1.1 mg/kg bw/day
123-68-2	Allyl hexanoate		
Worker DNEL, long-term	dermal	systemic	4,3 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	15 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	3,7 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	2,1 mg/kg bw/day
91-64-5	coumarin		
Worker DNEL, long-term	inhalation	systemic	6,78 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	0,39 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	1,69 mg/m <sup>3</sup>
Consumer DNEL, long-term	oral	systemic	0,39 mg/kg bw/day

**PNEC values**

CAS No	Substance	
Environmental compartment	Value	
101-39-3	a-methylcinnamaldehyde	
Freshwater	0.001 mg/l	
Freshwater (intermittent releases)	0.012 mg/l	
Marine water	0.0001 mg/l	
Freshwater sediment	0.04 mg/kg	
Marine sediment	0.004 mg/kg	
Micro-organisms in sewage treatment plants (STP)	3.66 mg/l	
32210-23-4	4-tert-Butylcyclohexyl acetate	
Freshwater	0,0053 mg/l	
Marine water	0,00053 mg/l	
Freshwater sediment	0,21 mg/kg	
Marine sediment	2,01 mg/kg	
Secondary poisoning	66,67 mg/kg	
Micro-organisms in sewage treatment plants (STP)	12,3 mg/l	
Soil	0,42 mg/kg	

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123-68-2	Allyl hexanoate	
Freshwater		0,000117 mg/l
Marine water		0,000012 mg/l
Freshwater sediment		0,00446 mg/kg
Marine sediment		0,000446 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,000825 mg/kg
91-64-5	coumarin	
Freshwater		0,019 mg/l
Freshwater (intermittent releases)		0,0145 mg/l
Marine water		0,0019 mg/l
Marine water (intermittent releases)		0,0145 mg/l
Freshwater sediment		0,15 mg/kg
Marine sediment		0,015 mg/kg
Micro-organisms in sewage treatment plants (STP)		6,4 mg/l
Soil		0,018 mg/kg

### Additional advice on limit values

To date, no national critical limit values exist.

### 8.2. Exposure controls



#### Appropriate engineering controls

Professional:  
Provide adequate ventilation.

#### Protective and hygiene measures

Professional:  
Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

#### Eye/face protection

Professional:  
Wear safety glasses; chemical goggles (if splashing is possible). DIN EN 166

#### Hand protection

Professional:  
Wear suitable gloves.  
Suitable material:  
FKM (fluororubber). - Thickness of glove material: 0,4 mm  
Breakthrough time  $\geq$  8 h  
Butyl rubber. - Thickness of glove material: 0,5 mm  
Breakthrough time  $\geq$  8 h  
CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm  
Breakthrough time  $\geq$  8 h  
NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm  
Breakthrough time  $\geq$  8 h  
PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm  
Breakthrough time  $\geq$  8 h

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard

EN 374 derived from it.

Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

**Skin protection**

Professional:

Suitable protective clothing: Lab apron.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

**Respiratory protection**

Professional:

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

- exceeding exposure limit values
- insufficient ventilation and aerosol or mist formation

Suitable respiratory protective equipment: particulates filter device (DIN EN 143). Type: P1-3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

**Environmental exposure controls**

No special precautionary measures are necessary.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical state:	liquid	
Colour:	greenish	
Odour:	characteristic	
pH-Value:		not determined

**Changes in the physical state**

Melting point:		not determined
Initial boiling point and boiling range:		not determined
Sublimation point:		not determined
Softening point:		not determined
Pour point:		not determined
Flash point:		>100 °C
Sustaining combustion:		Not sustaining combustion

**Explosive properties**

none

Lower explosion limits:		not determined
Upper explosion limits:		not determined
Ignition temperature:		not determined

**Auto-ignition temperature**

Gas: not determined

Decomposition temperature: not determined

**Oxidizing properties**

none

Vapour pressure: < 10 hPa  
(at 50 °C)

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Density (at 20 °C):	1,012 - 1,022 g/cm <sup>3</sup>
Water solubility:	not determined
<b>Solubility in other solvents</b>	
not determined	
Partition coefficient:	not determined
Viscosity / dynamic:	not determined
Viscosity / kinematic:	not determined
Flow time:	not determined
Vapour density:	not determined
Evaporation rate:	not determined
Solvent separation test:	not determined
Solvent content:	not determined

### 9.2. Other information

Solid content:	not determined
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

No information available.

### 10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

### 10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

### 10.6. Hazardous decomposition products

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### **Toxicokinetics, metabolism and distribution**

No data available.

#### **Acute toxicity**

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
101-39-3	a-methylcinnamaldehyde				
	oral	LD50 mg/kg	>2000	Rat.	ECHA Dossier
	dermal	LD50 mg/kg	>5000	Rabbit.	ECHA Dossier
104-55-2	cinnamaldehyde				
	oral	LD50 mg/kg	2200	Rat	ECHA Dossier



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	dermal	LD50 mg/kg	1260	Rabbit	ECHA Dossier	
97-53-0	eugenol					
	oral	LD50 mg/kg	>2000	Rat	ECHA Dossier	
	inhalative (4 h) vapour	LC50	5 mg/l	Rat	ECHA Dossier	
32210-23-4	4-tert-Butylcyclohexyl acetate					
	oral	LD50 mg/kg	3370	Rat	ECHA Dossier	
	dermal	LD50 mg/kg	>4680	Rabbit	ECHA Dossier	
77-83-8	ethyl 2,3-epoxy-3-phenylbutyrate					
	oral	LD50 mg/kg	5470	Rat.	ECHA Dossier	
	dermal	LD50 mg/kg	>2000	Rat.	ECHA Dossier	
123-68-2	Allyl hexanoate					
	oral	ATE mg/kg	100			
	dermal	LD50 mg/kg	820	Rabbit.	ECHA Dossier	
	inhalative vapour	ATE	3 mg/l			
	inhalative aerosol	ATE	0,5 mg/l			
91-64-5	coumarin					
	oral	ATE mg/kg	500			
1885-38-7	Cinnamitrile					
	oral	ATE mg/kg	100			
	dermal	ATE mg/kg	1100			
104-54-1	cinnamyl alcohol					
	inhalative (4 h) vapour	LC50	757 mg/l	Rat	ECHA Dossier	

**Irritation and corrosivity**

Based on available data, the classification criteria are not met.

**Sensitising effects**

May cause an allergic skin reaction. (a-methylcinnamaldehyde; cinnamaldehyde; eugenol; 4-tert-Butylcyclohexyl acetate; Caryophyllene; ethyl 2,3-epoxy-3-phenylbutyrate; coumarin; 2,4-Dimethyl-3-cyclohexene-1-carbaldehyde; 1,8-Cineole; Cinnamitrile; cinnamyl alcohol)

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Specific effects in experiment on an animal**

No data available.

**SECTION 12: Ecological information**
**12.1. Toxicity**

The product has not been tested.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
101-39-3	a-methylcinnamaldehyde					
	Acute fish toxicity	LC50 1,7 mg/l	96 h	Pimephales promelas (fathead minnow)	ECHA Dossier	
	Acute algae toxicity	ErC50 mg/l 14,8	72 h	Desmodesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50 9,9 mg/l	48 h	Daphnia magna	ECHA Dossier	
	Acute bacteria toxicity	(366 mg/l)	3 h	Activated sludge	ECHA Dossier	
104-55-2	cinnamaldehyde					
	Acute fish toxicity	LC50 mg/l (>3,5)	96 h	Poecilia reticulata	ECHA Dossier	
	Acute algae toxicity	ErC50 mg/l (16,09)	72 h	Chlorella vulgaris	ECHA Dossier	
	Acute bacteria toxicity	((71 mg/l)	3 h	Activated sludge	ECHA Dossier	
97-53-0	eugenol					
	Acute fish toxicity	LC50 13 mg/l	96 h	Danio rerio	ECHA Dossier	
	Acute algae toxicity	ErC50 24 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50 mg/l 1,13	48 h	Daphnia magna	ECHA Dossier	
	Fish toxicity	NOEC 10 mg/l	4 d	Danio rerio	ECHA Dossier	
	Algae toxicity	NOEC 23 mg/l	3 d	Desmodesmus subspicatus	ECHA Dossier	
32210-23-4	4-tert-Butylcyclohexyl acetate					
	Acute fish toxicity	LC50 8,6 mg/l	96 h	Cyprinus carpio (Common Carp)	ECHA Dossier	
	Acute algae toxicity	ErC50 22 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50 5,3 mg/l	48 h	Daphnia magna	ECHA Dossier	
	Acute bacteria toxicity	(302 mg/l)	3 h	Activated sludge	ECHA Dossier	
77-83-8	ethyl 2,3-epoxy-3-phenylbutyrate					
	Acute fish toxicity	LC50 mg/l (4,2)	96 h	Oncorhynchus mykiss	ECHA Dossier	
	Acute algae toxicity	ErC50 (42) mg/l	96 h	Pseudokirchneriella subcapitata	ECHA Dossier	
	Acute crustacea toxicity	EC50 (52) mg/l	48 h	Daphnia magna	ECHA Dossier	
123-68-2	Allyl hexanoate					
	Acute fish toxicity	LC50 mg/l 0,117	96 h	Brachydanio rerio (zebra-fish)	ECHA Dossier	
470-82-6	1,8-Cineole					
	Acute fish toxicity	LC50 57 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	ECHA Dossier	
	Acute algae toxicity	ErC50 >74 mg/l	72 h	Pseudokirchneriella subcapitata	ECHA Dossier	
	Acute crustacea toxicity	EC50 mg/l >100	48 h	Daphnia magna	ECHA Dossier	

**12.2. Persistence and degradability**

The product has not been tested.

CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
101-39-3	a-methylcinnamaldehyde	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	97%	28	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)				
104-55-2	cinnamaldehyde	OECD 301D/ EEC 92/69/V, C.4-E	24,98%	5	ECHA Dossier
	Readily biodegradable (according to OECD criteria).				
97-53-0	eugenol	EU Method C.4-E	82%	28	ECHA
	Readily biodegradable (according to OECD criteria).				
32210-23-4	4-tert-Butylcyclohexyl acetate	EU Method C.4-C	75%	29	ECHA Dossier
	Product is partially biodegradable.				
77-83-8	ethyl 2,3-epoxy-3-phenylbutyrate	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D	53%	28	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).				
123-68-2	Allyl hexanoate	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	70%	28	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)				
91-64-5	coumarin	OECD 301C / ISO 9408 / EEC 92/69 annex V, C.4-F	100%	28	ECHA Dossier
	Product is biodegradable.				
470-82-6	1,8-Cineole	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D	82%	28	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)				

**12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
104-55-2	cinnamaldehyde	2,1
97-53-0	eugenol	1,83
32210-23-4	4-tert-Butylcyclohexyl acetate	4,8
77-83-8	ethyl 2,3-epoxy-3-phenylbutyrate	3,0
104-54-1	cinnamyl alcohol	1,636

**12.4. Mobility in soil**

No data available.

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

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Other adverse effects**

No data available.

**Further information**

Do not allow to enter into surface water or drains.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.

Non-contaminated packages may be recycled.

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to EAKV:

#### Waste disposal number of waste from residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

#### Waste disposal number of used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

#### Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

#### Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### Land transport (ADR/RID)

<b>14.1. UN number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

### Inland waterways transport (ADN)

<b>14.1. UN number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

### Marine transport (IMDG)

<b>14.1. UN number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

### Air transport (ICAO-TI/IATA-DGR)

<b>14.1. UN number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

refer to chapter 6-8

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not relevant

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2010/75/EU (VOC):	No information available.
2004/42/EC (VOC):	No information available.
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)

**Additional information**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].  
REACH 1907/2006 Appendix XVII, No (mixture): 3

**National regulatory information**

Employment restrictions:	Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
Water contaminating class (D):	2 - clearly water contaminating

**15.2. Chemical safety assessment**

For the following substances of this mixture a chemical safety assessment has been carried out:

cis-2-tert-butylcyclohexyl acetate  
cinnamaldehyde  
4-tert-Butylcyclohexyl acetate

**SECTION 16: Other information****Changes**

Rev. 1.0; Initial release: 05.04.2018

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
CAS Chemical Abstracts Service  
DNEL: Derived No Effect Level  
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)  
LOAEL: Lowest observed adverse effect level  
LOAEC: Lowest observed adverse effect concentration  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
NOAEL: No observed adverse effect level  
NOAEC: No observed adverse effect level  
NTP: National Toxicology Program  
N/A: not applicable  
OSHA: Occupational Safety and Health Administration  
PNEC: predicted no effect concentration

PBT: Persistent bioaccumulative toxic  
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail )  
 SARA: Superfund Amendments and Reauthorization Act  
 SVHC: substance of very high concern  
 TRGS Technische Regeln fuerGefahrstoffe  
 TSCA: Toxic Substances Control Act  
 VOC: Volatile Organic Compounds  
 VwVwS: Verwaltungsvorschrift wassergefaehrdender Stoffe  
 WGK: Wassergefaehrungsklasse

**Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]**

Classification	Classification procedure
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 3; H412	Calculation method

**Relevant H and EUH statements (number and full text)**

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Further Information**

Classification according EC regulation 1272/2008 (CLP): - Classification procedure:  
 Health hazards: Calculation method.  
 Environmental hazards: Calculation method.  
 Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*