

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

SPLENDID mini spray Cherry

Creation date	19th September 2012	Version	10.0
Revision date	18th November 2021		

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

1.1. Product identifier SPLENDID mini spray Cherry
Substance / mixture mixture
UFI N1XG-15W6-K009-JCS8

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

Mixture's intended use

Air freshener.

Main intended use

PC-AIR-2 Air care products for indoor rooms (instant action)

Mixture uses advised against

The product should not be used in ways other than those referred in Section 1.

1.3. Details of the supplier of the safety data sheet

Distributor

Name or trade name	SPAR Slovenija d.o.o.
Address	Letališka cesta 26, Ljubljana Slovenia
Phone	080 82 44

Downstream user

Name or trade name	TOMIL s.r.o.
Address	Gen. Svatoně 149, Vysoké Mýto, 56601 Czech Republic
Identification number (CRN)	25281470
VAT Reg No	CZ25281470
Phone	+420 465 503 230
E-mail	info@tomil.cz
Web address	www.tomil.eu

Competent person responsible for the safety data sheet

Name	TOMIL s.r.o.
E-mail	info@tomil.cz

1.4. Emergency telephone number

European emergency number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Aerosol 1, H229, H222
Skin Sens. 1B, H317

Most serious adverse physico-chemical effects

Pressurised container: May burst if heated. Extremely flammable aerosol.

Most serious adverse effects on human health and the environment

May cause an allergic skin reaction.

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2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazardous substances

3,7-dimethyloctan-3-ol
reaction mass of cis-4-(isopropyl)cyclohexanemethanol and trans-4-(isopropyl)cyclohexanemethanol
(E)-2-benzylideneoctanal
hexyl salicylate
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one
coumarin
[1 α (E),2 β]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H317 May cause an allergic skin reaction.

Precautionary statements

P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P501 Dispose of contents/container to in accordance with regional regulations.

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9 Registration number: 01-2119486944-21	propane	40-45	Flam. Gas 1, H220 Press. Gas (compressed gas), H280	2, 3
Index: 601-004-00-0 CAS: 106-97-8 EC: 203-448-7	butane	40-45	Flam. Gas 1, H220 Press. Gas (compressed gas), H280	1, 2, 3

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 78-69-3 EC: 201-133-9 Registration number: 01-2119454788-21-	3,7-dimethyloctan-3-ol	0,1-0,6	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319 Specific concentration limit: ATE Oral = 5000 mg/kg bw ATE Dermal = 5000 mg/kg bw	
CAS: 5502-75-0 EC: 939-719-8 Registration number: 01-2119983532-32-	reaction mass of cis-4-(isopropyl)cyclohexanemethanol and trans-4-(isopropyl)cyclohexanemethanol	0,1-0,6	Skin Irrit. 2, H315 Skin Sens. 1B, H317	
CAS: 101-86-0 EC: 202-983-3 Registration number: 01-2119533092-50-	(E)-2-benzylideneoctanal	0,1-0,3	Skin Sens. 1B, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411 Specific concentration limit: ATE Oral = 3100 mg/kg bw	
CAS: 6259-76-3 EC: 228-408-6 Registration number: 01-2119638275-36-	hexyl salicylate	0,02-0,15	Skin Sens. 1B, H317 Aquatic Chronic 1, H410 (M=1) Specific concentration limit: ATE Oral = 5000 mg/kg bw ATE Dermal = 5000 mg/kg bw	
EC: 915-730-3 Registration number: 01-2119489989-04-	1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	0,02-0,15	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411 Specific concentration limit: ATE Oral = 5000 mg/kg bw ATE Dermal = 5000 mg/kg bw	
CAS: 91-64-5 EC: 202-086-7 Registration number: 01-2119949300-45	coumarin	0,01-0,15	Acute Tox. 4, H302 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 Specific concentration limit: ATE Oral = 290 mg/kg bw	
EC: 916-328-0 Registration number: 01-2120794630-50-	Reaction mass of allyl (2-methylbutoxy)acetate and allyl (3-methylbutoxy)acetate	0,01-0,05	Acute Tox. 4, H302+H312 STOT RE 2, H373 (liver) (ingestion) Aquatic Acute 1, H400 (M=1) Specific concentration limit: ATE Oral = 730 mg/kg bw	
CAS: 71048-82-3 EC: 275-156-8 Registration number: 01-2119535122-53-	[1 α (E),2 β]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one	0,0001-0,005	Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	

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Notes

- Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
- Note U (Table 3): When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned:

Press. Gas (Comp.)
Press. Gas (Liq.)
Press. Gas (Ref. Liq.)
Press. Gas (Diss.)

Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).

- A substance for which exposure limits are set.

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

SECTION 4: First aid measures

4.1. Description of first aid measures

If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

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

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible.

If in eyes

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

If swallowed

Unlikely.

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

If inhaled

Not expected.

If on skin

May cause an allergic skin reaction.

If in eyes

When intruding eyes, it can evoke irritation.

If swallowed

Irritation, nausea.

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

Symptomatic treatment.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. Pressurised container: May burst if heated. Extremely flammable aerosol. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Ventilate the room. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Prevent contact with skin and eyes. No smoking. Protect against direct sunlight. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Content	Packaging type	Material of package
15 ml	aerosol can	ALU

Storage class 2B - Aerosols
Storage temperature min 5 °C, max 35 °C

7.3. Specific end use(s)

not available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

Croatia

OG 1/2021

Substance name (component)	Type	Value
butane (CAS: 106-97-8)	GVI	1450 mg/m ³
	GVI	600 ppm
	KGVI	1810 mg/m ³
	KGVI	750 ppm
	GVI	22 mg/m ³
	GVI	10 ppm

Hungary

5/2020. (II. 6.) ITM rendelet

Substance name (component)	Type	Value
butane (CAS: 106-97-8)	AK-érték	2350 mg/m ³
	CK-érték	9400 mg/m ³

Slovenia

Uradni list RS, Št. 72/2021

Substance name (component)	Type	Value
propane (CAS: 74-98-6)	8 hours	1800 mg/m ³
	8 hours	1000 ppm
	KTV (15 min)	7200 mg/m ³
	KTV (15 min)	4000 ppm
butane (CAS: 106-97-8)	8 hours	2400 mg/m ³
	8 hours	1000 ppm
	KTV (15 min)	9600 mg/m ³
	KTV (15 min)	4000 ppm

DNEL

(E)-2-benzylideneoctanal					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	0.525 mg/cm ²	Acute effects local		DROM Fragrances
Workers	Inhalation	6.28 mg/m ³	Acute effects local		DROM Fragrances
Workers	Dermal	18.2 mg/kg bw/day	Chronic effects systemic		DROM Fragrances
Workers	Inhalation	0.078 mg/m ³	Chronic effects systemic		DROM Fragrances
Workers	Dermal	0.525 mg/cm ²	Chronic effects local		DROM Fragrances
Consumers	Inhalation	0.019 mg/m ³	Chronic effects systemic		DROM Fragrances

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(E)-2-benzylideneoctanal					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Consumers	Inhalation	4.7 mg/m ³	Acute effects local		DROM Fragrances
Consumers	Dermal	9 mg/kg bw/day	Chronic effects systemic		DROM Fragrances
Consumers	Dermal	0.079 mg/cm ²	Chronic effects local		DROM Fragrances
Consumers	Dermal	0.079 mg/cm ²	Acute effects local		DROM Fragrances
Consumers	Oral	0.056 mg/kg bw/day	Chronic effects systemic		DROM Fragrances

[1α(E),2β]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	0.4 mg/kg bw/day	Chronic effects systemic		DROM Fragrances
Workers	Inhalation	1.5 mg/m ³	Chronic effects systemic		DROM Fragrances
Consumers	Dermal	0.25 mg/kg bw/day	Chronic effects systemic		DROM Fragrances
Consumers	Inhalation	0.43 mg/m ³	Chronic effects systemic		DROM Fragrances
Consumers	Oral	0.25 mg/kg bw/day	Chronic effects systemic		DROM Fragrances

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	0.1011 mg/cm ²	Chronic effects local		DROM Fragrances
Workers	Inhalation	1.76 mg/m ³	Chronic effects systemic		DROM Fragrances
Workers	Dermal	1.73 mg/kg bw/day	Chronic effects systemic		DROM Fragrances

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3,7-dimethyloctan-3-ol

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	0.19 mg/cm ²	Chronic effects local		DROM Fragrances
Consumers	Dermal	0.19 mg/cm ²	Chronic effects local		DROM Fragrances
Consumers	Dermal	1.25 mg/kg bw/day	Chronic effects systemic		DROM Fragrances
Consumers	Inhalation	0.68 mg/m ³	Chronic effects systemic		DROM Fragrances
Consumers	Oral	0.2 mg/kg bw/day	Chronic effects systemic		DROM Fragrances
Workers	Dermal	2.5 mg/kg bw/day	Chronic effects systemic		DROM Fragrances
Workers	Inhalation	2.75 mg/m ³	Chronic effects systemic		DROM Fragrances

coumarin

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	6.78 mg/m ³	Chronic effects systemic		DROM Fragrances
Consumers	Inhalation	1.69 mg/m ³	Chronic effects systemic		DROM Fragrances
Consumers	Oral	0.39 mg/kg bw/day	Chronic effects systemic		DROM Fragrances
Consumers	Dermal	0.39 mg/kg bw/day	Chronic effects systemic		DROM Fragrances
Workers	Inhalation	0.741 mg/m ³	Chronic effects systemic		DROM Fragrances
Workers	Dermal	0.79 mg/kg bw/day	Chronic effects systemic		DROM Fragrances

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hexyl salicylate					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	1.7 mg/m ³	Chronic effects systemic		DROM Fragrances
Workers	Dermal	6.4 mg/kg bw/day	Chronic effects systemic		DROM Fragrances
Workers	Dermal	0.885 mg/cm ²	Chronic effects local		DROM Fragrances
Workers	Dermal	0.885 mg/cm ²	Acute effects local		DROM Fragrances
Consumers	Inhalation	0.4 mg/m ³	Chronic effects systemic		DROM Fragrances
Consumers	Dermal	3.2 mg/kg bw/day	Chronic effects systemic		DROM Fragrances
Consumers	Dermal	0.4425 mg/cm ²	Chronic effects local		DROM Fragrances
Consumers	Dermal	0.4425 mg/cm ²	Acute effects local		DROM Fragrances
Consumers	Oral	0.3 mg/kg bw/day	Chronic effects systemic		DROM Fragrances

Reaction mass of allyl (2-methylbutoxy)acetate and allyl (3-methylbutoxy)acetate					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	0.14 mg/kg bw/day	Chronic effects systemic		DROM Fragrances
Workers	Inhalation	4.93 mg/m ³	Chronic effects systemic		DROM Fragrances
Consumers	Dermal	0.5 mg/kg bw/day	Chronic effects systemic		DROM Fragrances
Consumers	Inhalation	0.00087 mg/m ³	Chronic effects systemic		DROM Fragrances
Consumers	Oral	0.5 mg/kg bw/day	Chronic effects systemic		DROM Fragrances

PNEC

(E)-2-benzylideneoctanal			
Route of exposure	Value	Value determination	Source
Freshwater environment	0.00138 mg/l		DROM Fragrances
Marine water	0.000138 mg/l		DROM Fragrances
Microorganisms in sewage treatment	10 mg/l		DROM Fragrances
Freshwater sediment	3.2 mg/kg of dry substance of sediment		DROM Fragrances

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(E)-2-benzylideneoctanal

Route of exposure	Value	Value determination	Source
Sea sediments	0.064 mg/kg of dry substance of sediment		DROM Fragrances
Soil (agricultural)	9.51 mg/kg of dry substance of soil		DROM Fragrances
Food chain	6.6 mg/l		DROM Fragrances
Water (intermittent release)	0.03 mg/l		DROM Fragrances

[1 α (E),2 β]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one

Route of exposure	Value	Value determination	Source
Freshwater environment	0.014 mg/l		DROM Fragrances
Freshwater sediment	0.561 mg/kg of dry substance of sediment		DROM Fragrances
Marine water	0.001 mg/l		DROM Fragrances
Sea sediments	0.056 mg/kg of dry substance of sediment		DROM Fragrances
Microorganisms in sewage treatment	2.7 mg/l		DROM Fragrances
Soil (agricultural)	0.103 mg/kg of dry substance of soil		DROM Fragrances
Food chain	5 mg/kg		DROM Fragrances

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

Route of exposure	Value	Value determination	Source
Freshwater environment	0.0028 mg/l		DROM Fragrances
Marine water	0.00028 mg/l		DROM Fragrances
Freshwater sediment	3.73 mg/kg		DROM Fragrances
Sea sediments	0.75 mg/kg		DROM Fragrances
Soil (agricultural)	0.705 mg/kg		DROM Fragrances

3,7-dimethyloctan-3-ol

Route of exposure	Value	Value determination	Source
Freshwater environment	0.0089 mg/l		DROM Fragrances
Marine water	0.00089 mg/l		DROM Fragrances
Freshwater sediment	0.0821 mg/kg of dry substance of sediment		DROM Fragrances
Sea sediments	0.00821 mg/kg of dry substance of sediment		DROM Fragrances

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3,7-dimethyloctan-3-ol

Route of exposure	Value	Value determination	Source
Microorganisms in sewage treatment	450 mg/l		DROM Fragrances
Water (intermittent release)	0.089 mg/l		DROM Fragrances
Soil (agricultural)	0.0112 mg/kg of dry substance of soil		DROM Fragrances

coumarin

Route of exposure	Value	Value determination	Source
Freshwater environment	19 µg/l		DROM Fragrances
Marine water	1.9 µg/l		DROM Fragrances
Water (intermittent release)	14.5 µg/l		DROM Fragrances
Freshwater sediment	0.15 mg/kg of dry substance of sediment		DROM Fragrances
Sea sediments	0.015 mg/kg of dry substance of sediment		DROM Fragrances
Soil (agricultural)	0.018 mg/kg of dry substance of soil		DROM Fragrances
Microorganisms in sewage treatment	6.4 mg/l		DROM Fragrances

hexyl salicylate

Route of exposure	Value	Value determination	Source
Freshwater environment	0 mg/l		DROM Fragrances
Marine water	0 mg/l		DROM Fragrances
Freshwater sediment	0.272 mg/kg		DROM Fragrances
Sea sediments	0.0272 mg/kg		DROM Fragrances
Microorganisms in sewage treatment	10 mg/l		DROM Fragrances
Soil (agricultural)	0.0542 mg/kg of dry substance of soil		DROM Fragrances
Water (intermittent release)	0.004 mg/l		DROM Fragrances

Reaction mass of allyl (2-methylbutoxy)acetate and allyl (3-methylbutoxy)acetate

Route of exposure	Value	Value determination	Source
Freshwater environment	0.3 µg/l		DROM Fragrances
Marine water	0.03 µg/l		DROM Fragrances

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Reaction mass of allyl (2-methylbutoxy)acetate and allyl (3-methylbutoxy)acetate			
Route of exposure	Value	Value determination	Source
Freshwater sediment	0.0024 mg/kg of dry substance of sediment		DROM Fragrances
Sea sediments	0.00024 mg/kg of dry substance of sediment		DROM Fragrances
Soil (agricultural)	0.000305 mg/kg of dry substance of soil		DROM Fragrances
Microorganisms in sewage treatment	0.905 mg/l		DROM Fragrances

8.2. Exposure controls

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

It is not needed.

Skin protection

Hand protection: Protective gloves resistant to the product. Contaminated skin should be washed thoroughly.

Respiratory protection

Respirator.

Thermal hazard

Not available.

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	gas
Colour	colourless
color intensity	light
Odour	according to fragrance
Melting point/freezing point	not applicable
Reaction mass of allyl (2-methylbutoxy)acetate and allyl (3-methylbutoxy)acetate	-70 °C
Boiling point or initial boiling point and boiling range	data not available
Flammability	inflammable
Lower and upper explosion limit	
bottom	1.8 %
upper	8.4 %
Flash point	not applicable
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	134 °C
3,7-dimethyloctan-3-ol (CAS: 78-69-3)	77 °C
Reaction mass of allyl (2-methylbutoxy)acetate and allyl (3-methylbutoxy)acetate	99 °C

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reaction mass of cis-4-(isopropyl)cyclohexanemethanol and trans-4-(isopropyl)cyclohexanemethanol (CAS: 5502-75-0)	109 °C
Auto-ignition temperature	287 °C
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	260 °C
3,7-dimethyloctan-3-ol (CAS: 78-69-3)	365 °C
Reaction mass of allyl (2-methylbutoxy)acetate and allyl (3-methylbutoxy)acetate	216 °C
Decomposition temperature	not applicable
pH	gas
Kinematic viscosity	applies to liquids
Solubility in water	not determined
Partition coefficient n-octanol/water (log value)	does not apply to mixtures
Vapour pressure	data not available
Density and/or relative density	data not available
Relative vapour density	data not available
Particle characteristics	data not available
Form	aerosol dispenser: spray aerosol
data not available	

9.2. Other information

not available

SECTION 10: Stability and reactivity

10.1. Reactivity

not available

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost. Pressurised container: May burst if heated.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

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

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

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Acute toxicity

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

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Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	ATE		75920 mg/kg				Calculation of value	
Dermal	ATE		203200 mg/kg				Calculation of value	

(E)-2-benzylideneoctanal								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Inhalation (dust/mist)	LC ₅₀		>2100 mg/m ³	8 hours	Rat (Rattus norvegicus)			DROM Fragrances
Dermal	LD ₅₀		3000 mg/kg		Rabbit			DROM Fragrances
Oral	LD ₅₀		3100 mg/kg		Rat (Rattus norvegicus)			DROM Fragrances
Oral	ATE		3100 mg/kg bw					

[1α(E),2β]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Dermal	LD ₅₀		>5000 mg/kg		Rabbit			DROM Fragrances
Oral	LD ₅₀		1400 mg/kg		Mouse			DROM Fragrances

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Dermal	LD ₅₀		>5000 mg/kg		Rat (Rattus norvegicus)			Givaudan
Oral	LD ₅₀		>5000 mg/kg		Rat (Rattus norvegicus)			Givaudan

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

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	ATE		5000 mg/kg bw					
Dermal	ATE		5000 mg/kg bw					

3,7-dimethyloctan-3-ol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Dermal	LD ₅₀		>5000 mg/kg		Rabbit			Givaudan
Oral	LD ₅₀		5000 mg/kg		Rat (Rattus norvegicus)			Givaudan
Oral	ATE		5000 mg/kg bw					
Dermal	ATE		5000 mg/kg bw					

butane

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Inhalation	LD ₅₀	OECD 403	1443 mg/l	15 minutes	Rat (Rattus norvegicus)			Exxon Mobil

coumarin

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		520 mg/kg		Rat (Rattus norvegicus)			Givaudan
Oral	ATE		290 mg/kg bw					

hexyl salicylate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Dermal	LD ₅₀		>5000 mg/kg		Rabbit			DROM Fragrances

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hexyl salicylate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		>5000 mg/kg		Rat (Rattus norvegicus)			DROM Fragrances
Oral	ATE		5000 mg/kg bw					
Dermal	ATE		5000 mg/kg bw					

Reaction mass of allyl (2-methylbutoxy)acetate and allyl (3-methylbutoxy)acetate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		730 mg/kg		Rat (Rattus norvegicus)			Givaudan
Oral	ATE		730 mg/kg bw					

reaction mass of cis-4-(isopropyl)cyclohexanemethanol and trans-4-(isopropyl)cyclohexanemethanol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		>10000 mg/kg		Rat (Rattus norvegicus)			Givaudan

Skin corrosion/irritation

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Serious eye damage/irritation

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Sensitization

(E)-2-benzylideneoctanal

Route of exposure	Result	Exposure time	Species	Sex	Source
Skin	Sensitizing		Mouse		DROM Fragrances

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Reaction mass of allyl (2-methylbutoxy)acetate and allyl (3-methylbutoxy)acetate					
Route of exposure	Result	Exposure time	Species	Sex	Source
Skin	Not sensitizing		Guinea-pig (Cavia aperea f. porcellus)		DROM Fragrances

Germ cell mutagenicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

(E)-2-benzylideneoctanal						
Result	Method	Exposure time	Specific target organ	Species	Sex	Source
Negative	OECD 471			Bacteria (Salmonella typhimurium)		DROM Fragrances
Negative	OECD 474					DROM Fragrances

Carcinogenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Reproductive toxicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Toxicity for specific target organ - single exposure

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Toxicity for specific target organ - repeated exposure

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Aspiration hazard

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

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Acute toxicity

(E)-2-benzylideneoctanal

Parameter	Value	Exposure time	Species	Environment	Source
EC ₅₀	0.247 mg/l	48 hours	Daphnia (Daphnia magna)		DROM Fragrances
LC ₅₀	1.7 mg/l	96 hours	Fish		DROM Fragrances

[1 α (E),2 β]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one

Parameter	Value	Exposure time	Species	Environment	Source
EC ₅₀	4.54 mg/l	72 hours	Algae		DROM Fragrances
EC ₅₀	241 mg/l	3 hours	Microorganisms		DROM Fragrances
LC ₅₀	0.977 mg/l	96 hours	Fish		DROM Fragrances

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

Parameter	Value	Exposure time	Species	Environment	Source
EC ₅₀	2.6 mg/l	72 hours	Algae		DROM Fragrances
EC ₅₀	1.38 mg/l	48 hours	Daphnia (Daphnia magna)		DROM Fragrances
LC ₅₀	1.3 mg/l	96 hours	Fish		DROM Fragrances

3,7-dimethyloctan-3-ol

Parameter	Value	Exposure time	Species	Environment	Source
EC ₅₀	14.2 mg/l	48 hours	Daphnia (Daphnia magna)		DROM Fragrances
LC ₅₀	8.9 mg/l	96 hours	Fish		DROM Fragrances

coumarin

Parameter	Value	Exposure time	Species	Environment	Source
LC ₅₀	13500 μ g/l	48 hours	Daphnia (Daphnia magna)	Fresh water	DROM Fragrances
LC ₅₀	56000 μ g/l	96 hours	Fish (Poecilia reticulata)	Fresh water	DROM Fragrances

hexyl salicylate

Parameter	Value	Exposure time	Species	Environment	Source
EC ₅₀	0.357 mg/l	48 hours	Daphnia (Daphnia magna)		DROM Fragrances
LC ₅₀	0.61 mg/l	72 hours	Algae		DROM Fragrances

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hexyl salicylate					
Parameter	Value	Exposure time	Species	Environment	Source
LC ₅₀	1.34 mg/l	96 hours	Fish		DROM Fragrances

Reaction mass of allyl (2-methylbutoxy)acetate and allyl (3-methylbutoxy)acetate					
Parameter	Value	Exposure time	Species	Environment	Source
LC ₅₀	0.3 mg/l	96 hours	Fish		DROM Fragrances

Chronic toxicity

(E)-2-benzylideneoctanal					
Parameter	Value	Exposure time	Species	Environment	Source
EC ₁₀	0.069 mg/l	21 hours	Daphnia (Daphnia magna)	Fresh water	DROM Fragrances

[1α(E),2β]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one					
Parameter	Value	Exposure time	Species	Environment	Source
NOEC	0.7 mg/l	21 days	Daphnia		DROM Fragrances

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one					
Parameter	Value	Exposure time	Species	Environment	Source
NOEC	0.028 mg/l	21 days	Daphnia (Daphnia magna)		DROM Fragrances
NOEC	0.16 mg/l	30 days	Fish		DROM Fragrances

12.2. Persistence and degradability

Data for the mixture are not available.

Biodegradability

(E)-2-benzylideneoctanal						
Parameter	Method	Value	Exposure time	Environment	Result	Source
	OECD 301F	97 %	28 days		Easily biodegradable	DROM Fragrances

[1α(E),2β]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one						
Parameter	Method	Value	Exposure time	Environment	Result	Source
	OECD 301C	16 %	28 days		Hardly biodegradable	DROM Fragrances

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

Parameter	Method	Value	Exposure time	Environment	Result	Source
	OECD 301C	11 %	28 days		Hardly biodegradable	DROM Fragrances

3,7-dimethyloctan-3-ol

Parameter	Method	Value	Exposure time	Environment	Result	Source
	OECD 301F	64 %	28 days		Easily biodegradable	DROM Fragrances

coumarin

Parameter	Method	Value	Exposure time	Environment	Result	Source
	OECD 301F	90 %	28 days		Easily biodegradable	DROM Fragrances

hexyl salicylate

Parameter	Method	Value	Exposure time	Environment	Result	Source
	OECD 301F	91 %	28 days		Easily biodegradable	DROM Fragrances

Reaction mass of allyl (2-methylbutoxy)acetate and allyl (3-methylbutoxy)acetate

Parameter	Method	Value	Exposure time	Environment	Result	Source
	OECD 301B	89 %	28 days		Easily biodegradable	DROM Fragrances

12.3. Bioaccumulative potential

Data for the mixture are not available.

(E)-2-benzylideneoctanal

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
Log Pow	5.3					DROM Fragrances
BCF	6000					DROM Fragrances

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3,7-dimethyloctan-3-ol

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
Log Pow	3.3					DROM Fragrances
BCF	99.87					DROM Fragrances

coumarin

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
Log Pow	1.39					DROM Fragrances

Reaction mass of allyl (2-methylbutoxy)acetate and allyl (3-methylbutoxy)acetate

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
Log Pow	2.57					DROM Fragrances

12.4. Mobility in soil

No data are available for either the mixture or the components.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

Waste management legislation

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

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Packaging waste type code

15 01 01 paper and cardboard packaging 15 01 04 metallic packaging
15 01 02 plastic packaging

SECTION 14: Transport information

14.1. UN number or ID number

UN 1950

14.2. UN proper shipping name

AEROSOLS, flammable

14.3. Transport hazard class(es)

2 Gases

14.4. Packing group

not relevant

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

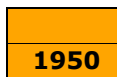
Additional information

Hazard identification No.

UN number

Classification code

Safety signs



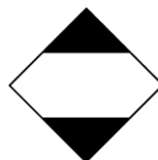
5F

Road transport - ADR

Limited quantities

Sign

1 L



Tunnel restriction code

(D)

Air transport - ICAO/IATA

Packaging instructions passenger 203

Cargo packaging instructions 203

Marine transport - IMDG

EmS (emergency plan) F-D, S-U

MFAG 620

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SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

not available

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H373	May cause damage to the liver through prolonged or repeated exposure if swallowed.
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.
H302+H312	Harmful if swallowed or in contact with skin.

Guidelines for safe handling used in the safety data sheet

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P501	Dispose of contents/container to in accordance with regional regulations.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
AK	Acceptable exposure limit

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BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC ₁₀	Concentration of a substance when it is affected 10% of the population
EC ₅₀	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
log Kow	Octanol-water partition coefficient
MK	Maximum concentration
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
Press. Gas (Comp.)	Gas under pressure: compressed gas
Press. Gas (Diss.)	Gas under pressure: dissolved gas
Press. Gas (Liq.)	Gas under pressure: liquefied gas
Press. Gas (Ref. Liq.)	Gas under pressure: refrigerated liquefied gas
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Aerosol	Aerosol
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Eye Irrit.	Eye irritation
Flam. Gas	Flammable gas
Press. Gas	Gases under pressure

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Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure

Training guidelines

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

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

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

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

The version 10.0 replaces the SDS version from 18 November 2022. Change in classification and change in composition.

More information

Classification procedure - calculation method.

Statement

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