



Safety data sheet

In compliance with Regulation (EC) No 2020/878

SENTINEL 353736-B	
1. IDENTIFICATION OF THE PREPARATION AND THE COMPANY	
1.1 Product Identifier Product Identifier/ No: UFI:	SENTINEL 353736-B 7PQ7-G1K7-M00R-R3NM
1.2 Relevant identified uses of the mixture and uses advised against:	Perfuming agent for finished consumer products. Not for personal use in this form or concentration.
1.3 Details of the supplier of the safety data sheet:	LUZI AG Riedwiesenstrasse 5 8305 Dietlikon, Switzerland Phone: +41 44 835 76 76 E-Mail: regulatory.switzerland@luzi.com
1.4 Emergency telephone number:	+41 76 315 31 83 Emergency consultation (DE/EN) during office hours Monday to Friday 08:00 - 17:00 (UTC+1)
2. HAZARD IDENTIFICATION	
2.1 Classification of the substance or mixture	
2.1.1 Classification according to Regulation (EC) No 1272/2008:	
 GHS07 Irritation, sensitisation Skin Irrit. 2 H315 Causes skin irritation. Skin Sens. 1 H317 May cause an allergic skin reaction.	
 GHS09 Hazards to the aquatic environment Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.	
2.2 Label elements	

SENTINEL 353736-B

2.2.1 Hazard pictograms:



2.2.2 Signal word

Warning

2.2.3 Hazard statements:

H315: Causes skin irritation.
 H317: May cause an allergic skin reaction.
 H411: Toxic to aquatic life with long lasting effects.

2.2.4 Precautionary statements

General:

P101 If medical advice is needed, have product container or label at hand.
 P103 Read label before use.

Prevention:

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.
 P264 Wash hands thoroughly after handling.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P273 Avoid release to the environment.
 P280 Wear protective gloves / protective clothing / eye protection / face protection.

Response in cases of accidental spillage or exposure:

P302+P352 IF ON SKIN: Wash with plenty of water and soap.
 P321 Specific treatment
 P332+P313 If skin irritation occurs: Get medical advice / attention.
 P333+P313 If skin irritation or rash occurs: Get medical advice / attention.
 P362 Take off contaminated clothing.
 P363 Wash contaminated clothing before reuse.
 P391 Collect spillage.

Storage:

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Disposal:

P501 Dispose of contents/container in accordance with official regulations.

SENTINEL 353736-B

Hazardous component(s) for labeling:

<u>CAS No:</u>	<u>Chemical name:</u>
54464-57-2	1-(2,3,8,8-Tetramethyl-1,3,4,5,6,7-hexahydronaphthalen-2-yl) ethanone
5989-27-5	1-Methyl-4-prop-1-en-2-ylcyclohexene
115-95-7	3,7-Dimethylocta-1,6-dien-3-yl acetate
78-70-6	3,7-Dimethyl-1,6-octadien-3-ol

EUH208: Contains an ingredient that may produce an allergic reaction:

<u>CAS No:</u>	<u>Chemical name:</u>
54464-57-2	1-(2,3,8,8-Tetramethyl-1,3,4,5,6,7-hexahydronaphthalen-2-yl) ethanone
5989-27-5	1-Methyl-4-prop-1-en-2-ylcyclohexene
115-95-7	3,7-Dimethylocta-1,6-dien-3-yl acetate
78-70-6	3,7-Dimethyl-1,6-octadien-3-ol
8028-48-6	Orange, sweet, ext.
10339-55-6	(6E)-3,7-Dimethylnona-1,6-dien-3-ol
127-91-3	7,7-Dimethyl-4-methylidenebicyclo[3.1.1]heptane
84082-84-8	Vetiveria zizanioides root extract acetylated
80-56-8	4,7,7-Trimethylbicyclo[3.1.1]hept-3-ene
4707-47-5	Methyl 2,4-dihydroxy-3,6-dimethylbenzoate

2.3 Other Hazards

This mixture does not contain any PBT (persistent, bioaccumulative and toxic) or vPvB (very persistent and very bioaccumulative) substances according to Directive (EC) No 1907/2006.

This mixture does not contain endocrine disrupting substances according to Regulation (EU) 2017/2100.

Handling may cause static charge which may ignite the mixture

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances Not applicable












3.2 Mixtures

Chemical characterisation Mixture of substances listed below with non-hazardous additions






CAS-/EINECS-No Not applicable

Quantity	CAS No EINECS No REACH No	Name	Comment	Classification (GHS)
50-70%	25265-71-8 246-770-3 01-2119456811-38	3-(3-Hydroxypropoxy)propan-1-ol		-

SENTINEL 353736-B

5-10%	54464-57-2 259-174-3 01-2119489989-04	1-(2,3,8,8-Tetramethyl-1,3,4,5,6,7-hexahydronaphthalen-2-yl) ethanone	 Skin Sens. 1B; Skin Irrit. 2; Aquatic Chronic 1; H317; H315; H410
1-5%	5989-27-5 227-813-5	1-Methyl-4-prop-1-en-2-ylcyclohexene	 Skin Irrit. 2; Skin Sens. 1B; Flam. Liq. 3; Aquatic Chronic 3; Aquatic Acute 1; Asp. Tox. 1; H315; H317; H226; H412; H400; H304
1-5%	115-95-7 204-116-4 01-2119454789-19	3,7-Dimethylocta-1,6-dien-3-yl acetate	 Skin Irrit. 2; Skin Sens. 1B; H315; H317
1-5%	67674-46-8 266-885-2 01-2120741268-52	6,6-Dimethoxy-2,5,5-trimethylhex-2-ene	 Skin Irrit. 2; Aquatic Chronic 3; H315; H412
1-5%	78-70-6 201-134-4 01-2119474016-42	3,7-Dimethyl-1,6-octadien-3-ol	 Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1B; H315; H319; H317
1-5%	111879-80-2 01-0000016883-62	(12E)-1-Oxacyclohexadec-12-en-2-one	 Aquatic Acute 1; Aquatic Chronic 1; H400; H410
1-5%	141773-73-1 415-490-5 01-0000016242-80	[2-[1-(3,3-dimethylcyclohexyl)ethoxy]-2-methylpropyl] propanoate	 Aquatic Chronic 2; H411
1-5%	28645-51-4 249-120-7 01-2120103324-74	(9Z)-17-Oxacycloheptadec-9-en-1-one	 Aquatic Chronic 2; H411
1-5%	18479-58-8 242-362-4 01-2119457274-37	2,6-Dimethyloct-7-en-2-ol	 STOT SE 3; Skin Irrit. 2; Eye Irrit. 2; H336; H315; H319
< 1%	8028-48-6 232-433-8	Orange, sweet, ext.	 Skin Sens. 1; Skin Irrit. 2; Flam. Liq. 3; Aquatic Chronic 1; Aquatic Chronic 2; Asp. Tox. 1; Aquatic Acute 1; H317; H315; H226; H410; H411; H304; H400
< 1%	10339-55-6 233-732-6 01-2119969272-32	(6E)-3,7-Dimethylnona-1,6-dien-3-ol	 Eye Irrit. 2; Skin Sens. 1B; H319; H317

SENTINEL 353736-B

< 1%	127-91-3 204-872-5	7,7-Dimethyl-4-methylidenebicyclo[3.1.1]heptane	 Aquatic Chronic 1; Aquatic Acute 1; Asp. Tox. 1; Skin Irrit. 2; Skin Sens. 1B; Flam. Liq. 3; H410; H400; H304; H315; H317; H226
< 1%	99-85-4 202-794-6	1-Methyl-4-propan-2-ylcyclohexa-1,4-diene	 Flam. Liq. 3; Aquatic Chronic 2; Asp. Tox. 1; Repr. 2; H226; H411; H304; H361
< 1%	84082-84-8 282-031-1 01-2120755957-35	Vetiveria zizanioides root extract acetylated	 Skin Sens. 1B; Aquatic Chronic 2; H317; H411
< 1%	110-27-0 203-751-4 01-2119541806-35	Propan-2-yl tetradecanoate	-
< 1%	80-56-8 201-291-9	4,7,7-Trimethylbicyclo[3.1.1]hept-3-ene	 Asp. Tox. 1; Aquatic Acute 1; Aquatic Chronic 1; Acute Tox. 4 oral; Skin Irrit. 2; Flam. Liq. 3; Skin Sens. 1B; H304; H400; H410; H302; H315; H226; H317
< 1%	4707-47-5 225-193-0 01-2120762759-36	Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	 Skin Sens. 1B; H317

4. FIRST AID MEASURES	
4.1 Description of first aid measures	
General advice:	Seek medical advice and show this safety data sheet.
Inhalation:	Remove affected person to fresh air and if unconscious place in recovery position. Seek medical attention for safety reasons.
Skin Contact:	Wash with plenty of soap and water. Remove contaminated clothing and clean before reuse.
Eye Contact:	Immediately remove contact lenses and rinse eyes thoroughly under running water with eyelids open (15 minutes). Seek medical attention if signs of tissue damage or irritation persist.

SENTINEL 353736-B	
Ingestion:	Keep airways clear, do not administer milk or alcoholic beverages. Never administer anything orally to an unconscious person. If symptoms persist, consult a physician.
4.2 Most important symptoms and effects, both acute and delayed	No further relevant information available.
4.3 Indication of immediate medical attention and special treatment needed	No further relevant information available.

5. FIREFIGHTING MEASURES	
5.1 Extinguishing media	Suitable extinguishing agents: - Dry extinguishing agent - Alcohol resistant foam - Carbon dioxide - Water spray Unsuitable extinguishing agents: - Direct water jet can spread the fire
5.2 Special hazard arising from the substance or mixture	Do not allow waste water from firefighting to enter sewers/surface waters/groundwater.
5.3 Advice for fire-fighters	Avoid inhalation of smoke and fumes. In case of insufficient ventilation, use breathing apparatus. Contaminated extinguishing water must not be allowed to enter the sewage system and must be disposed of in accordance with local official regulations.

6. ACCIDENTAL RELEASE MEASURES	
6.1 Personal precautions, protective equipment and emergency procedures	
6.1.1 For non-emergency personnel:	Wear suitable protective gloves when handling spilled material. Do not smoke. Avoid open flames and other sources of ignition. Avoid contact with skin. Do not inhale vapors. Individual cleaning after possible contact. Ensure adequate ventilation.
6.1.2 For emergency personnel:	Apply the same recommendations as section 6.1.1
6.2 Environmental precautions	

SENTINEL 353736-B	
Do not allow to enter drains/surface waters/groundwater. In case of contamination of water, inform the competent authorities.	
6.3	Methods and material for containment and cleaning up
6.3.1	For containment: Set up barriers and cover the sewage system to prevent large-scale spread.
6.3.2	For cleaning-up: Immediately absorb with suitable liquid-binding and non-flammable materials (e.g. sand, silica gel, universal binder). Collect bound material in suitable and sealable containers and dispose of in accordance with official regulations.
6.4	Reference to other sections: See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7.	HANDLING AND STORAGE
7.1	Precautions for safe handling
Avoid contact with skin and eyes. Wear suitable protective gloves and goggles / face shield. Do not smoke. Avoid all sources of ignition. Avoid excessive temperature during processing. Do not ingest or apply directly to skin. Good ventilation of storage and work place.	
7.1.1	Protective measures: Keep strict control of dust accumulation to a minimum. Maintain adequate local and general ventilation where product is handled. Avoid any sources of ignition.
7.1.2	Advice on general occupational hygiene: Do not eat / drink / smoke at the workplace. Wash hands after use. Immediately remove contaminated clothing and protective equipment and clean before reuse.
7.2	Conditions for safe storage, including any incompatibilities
7.2.1	Requirements to be met by store rooms and receptacles: Store tightly closed and dry in containers that are as full as possible in a well-ventilated area. Keep away from heat sources. Protect from extreme temperatures. Store at room temperature (10 - 30 °C). Protect from exposure to light. Do not reuse empty containers. Storage class according to TRGS 510: 10
7.2.2	Information about storage in one common storage facility: Do not store together with storage classes 1 / 4.2 / 4.3 / 5 / 6.2 / 7.

SENTINEL 353736-B

7.2.3 Further information about storage conditions: The product may discolor due to prolonged storage. Crystallization is possible with cool storage. If necessary, warm slightly (40 °C) and mix well before use.

7.3 Specific end use(s)

Perfuming of consumer products

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace

Name	Short-term value		Long-term value		CAS No	Country	Comment
Type	[mg/m ³]	[ppm]	[mg/m ³]	[ppm]			
3-(3-Hydroxypropoxy)propan-1-ol					25265-71-8		
MAK	280		140			CH	S Sc
AGW			100			DE	2(II);DFG, Y, 11
MV	200		100			SI	Inhalabilna frakcija, Y
1-Methyl-4-prop-1-en-2-ylcyclohexene					5989-27-5		
MAK	80	14	40	7		CH	S SSc
AGW			28	5		DE	4(II);DFG, H, Sh, Y
LEP			168	30		ES	Sen, vía dérmica
HTP	280	50	140	25		FI	
AG			140	25		NO	A
MV	112	20	28	5		SI	K, Y

8.2 Exposure controls

8.2.1 Engineering measures

Ensure adequate ventilation, especially in confined areas.

Additional information about design of technical facilities:

No further data, see item 7.

8.2.2 Personal protective equipment

SENTINEL 353736-B

Respiratory protection:	In case of insufficient ventilation use respirator (according to EN 14387 or other governmental standards such as CEN accordingly).
Gloves:	Wear solvent resistant gloves according to EN 374. The permeation time must exceed the contact time.
Eye protection:	Use safety goggles and face shield tested according to EN 166.
Body protection:	Wear work clothes that cover arms and legs.
Hygiene measures:	Avoid contact with skin and eyes. Do not eat/drink/smoke during use. Wash hands after use.

8.2.3 Limitation and supervision of exposure into the environment

Take precautions to prevent the product from entering the sewage system. In case of contamination of water or sewage system, inform the responsible authorities.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

State of aggregation:	liquid	
Color:	colorless-slightly yellow	
Odor:	lemon-like - woody - ambery	
Melting point/Freezing point:	Not determined	
Boiling point/Boiling range:	Not determined	
Flammability:	Not determined	
Lower and upper explosion limits:	Not determined	
Flash point (°C):	82.0	Method: Pensky-Martens, closed cup
Ignition temperature (°C):	Not determined	
Decomposition temperature (°C):	Not determined	
pH value:	Non-aqueous product	
Kinematic viscosity:	Not determined	

SENTINEL 353736-B	
Solubility:	Not determined
Partition coefficient n-octanol/water (log value):	Not determined
Vapor pressure:	Not determined
Relative density:	0.9865
Relative vapor density:	Not determined
Particulate properties:	Not determined
9.2 Other information	
Solvent content:	59.1%
VOC:	3.00%

10. STABILITY AND REACTIVITY	
10.1 Reactivity:	No reaction known with water.
10.2 Chemical Stability:	Good stability at standard temperature.
10.3 Possibility of hazardous reactions:	No decomposition when properly stored and used.
10.4 Conditions to avoid:	Avoid excessive heat above at least 5 °C below flash point for flammable liquids. Do not heat closed containers.
10.5 Incompatible materials:	Do not store together with storage classes 1 / 4.2 / 4.3 / 5 / 6.2 / 7.
10.6 Hazardous decomposition products:	Proper use, contact with water or storage under recommended conditions should not produce hazardous decomposition products.

11. TOXICOLOGICAL INFORMATION	
11.1 Information on hazard classes according to Regulation (EC) No 1272/2008	
Acute toxicity:	The classification criteria are not met.
Skin corrosion/irritation:	Causes skin irritation.

SENTINEL 353736-B	
Serious eye damage / irritation:	The classification criteria are not met.
Respiratory or skin sensitisation:	May cause an allergic skin reaction.
CMR effects:	
Germ cell mutagenicity:	The classification criteria are not met.
Carcinogenicity:	The classification criteria are not met.
Reproductive toxicity:	The classification criteria are not met.
Specific Target Organ Toxicity – single exposure:	The classification criteria are not met.
Specific Target Organ Toxicity – repeated exposure:	The classification criteria are not met.
Aspiration hazard:	The classification criteria are not met.
11.2 Information on other hazards	
Endocrine disrupting properties:	No substances with endocrine-disrupting properties contained according to the criteria from Regulations (EC) No. 1907/2006, (EU) 2017/2100, (EU) 2018/605.
Other information:	No data available

12. ECOLOGICAL INFORMATION	
12.1 Toxicity:	No data available for the mixture. The product must be labeled according to Regulation (EC) No. 1272/2008 (CLP) in the currently valid version.
12.2 Persistence and degradability:	No data available for the mixture.
12.3 Bioaccumulative potential:	No data available for the mixture.
12.4 Mobility in soil:	No data available for the mixture.
12.5 Results of PBT and vPvB assessment:	This mixture does not contain substances classified as PBT or vPvB.
12.6 Endocrine disrupting properties:	This mixture does not contain any substances with endocrine-disrupting properties according to the evaluation criteria set out in (EC) No. 1907/2006, (EU) 2017/2100, (EU) 2018/605.

SENTINEL 353736-B

12.7 Other adverse effects: In case of improper handling or disposal, an environmental hazard cannot be excluded.

13. DISPOSAL CONDITIONS

13.1 Waste treatment methods: Do not dispose of residues/waste of the product via sewers/wastewater, but treat according to the instructions mentioned above, see points 6, 7 and 8. Do not reuse empty containers and do not incinerate. Hand over residual/waste product and contaminated packaging to an authorized disposal company. Dispose of in accordance with official regulations.

14. TRANSPORT INFORMATION

14.1 UN number or ID number

ADR: UN 3082
IMDG: UN 3082
IATA: UN 3082

14.2 UN proper shipping name

ADR: Environmentally hazardous substance, liquid, n.o.s.
 (1-(2,3,8,8-Tetramethyl-1,3,4,5,6,7-hexahydronaphthalen-2-yl)ethanone, Mixture)
IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 (1-(2,3,8,8-Tetramethyl-1,3,4,5,6,7-hexahydronaphthalen-2-yl)ethanone, Mixture)
IATA: Environmentally hazardous substance, liquid, n.o.s.
 (1-(2,3,8,8-Tetramethyl-1,3,4,5,6,7-hexahydronaphthalen-2-yl)ethanone, Mixture)

14.3 Transport hazard classes

ADR: 9
IMDG: 9
IATA: 9

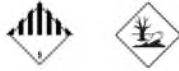
14.4 Packing group

ADR: III
IMDG: III
IATA: III

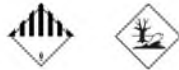
SENTINEL 353736-B

14.5 Environmental hazards

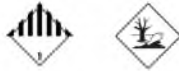
Marine pollutant:



Special marking (ADR):



Special marking (IATA):



EMS code:

F-A, S-F

14.6 Special precautions for the user

The transport classifications provided herewith are based on the properties of the unpackaged material according to this Safety Data Sheet. Refer to sections 2, 7 and 8.

14.7 Carriage of bulk cargo by sea in accordance with IMO instruments

Not applicable.

15. REGULATORY INFORMATION

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

15.1.1 Directive 2012/18/EU (Seveso)

Named hazardous substances - Annex I: None of the substances are included.

Seveso Category: E2 hazardous to the aquatic environment
200 t
500 t

SENTINEL 353736-B

15.1.2 Regulation (EC) No 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization: None of the substances are included.

Substances of very high concern (SVHC): None of the substances are included.

Annex XVII - Restriction on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: None of the substances are included.
Restriction: 3

15.1.3 Water hazard class (Germany)

WGK 2 - clearly hazardous to water

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this mixture.

16. Other information

16.1 Full text of abbreviated H-phrases

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.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
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.

16.2 Full text of abbreviated classifications (GHS)

Acute Tox. 4 oral - Acute Toxicity, Oral
 Aquatic Acute 1 - Acute Aquatic Toxicity
 Aquatic Chronic 1 - Chronic Aquatic Toxicity
 Aquatic Chronic 2 - Chronic Aquatic Toxicity
 Aquatic Chronic 3 - Chronic Aquatic Toxicity
 Asp. Tox. 1 - Aspiration Toxicity
 Eye Irrit. 2 - Eye irritation
 Flam. Liq. 3 - Flammable Liquids
 Repr. 2 - Reproductive toxicity
 Skin Irrit. 2 - Skin irritation
 Skin Sens. 1 - Skin Sensitisers
 STOT SE 3 - Specific target organ toxicity (single exposure, narcotic effects)

SENTINEL 353736-B

16.3 Abbreviations and acronyms	ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
	EINECS	European Inventory of Existing Commercial Chemical Substances
	GHS	Globally Harmonized System of Classification and Labelling of Chemicals
	IATA	International Air Transport Association
	IMDG	International Maritime Code for Dangerous Goods
	MAK	Maximale Arbeitsplatzkonzentration
	REACH	Registration, Evaluation, Authorisation and Restriction of Chemical substances, European Community Regulation on chemicals and their safe use (EC 1907/2006)
	VOC	Volatile Organic Compounds (Switzerland)
16.4 Recommended applications	Concentrated perfumery raw material. Unsuitable for personal use as such.	
16.5 Reason for revision	Change from previous revision: Adaptation of the safety data sheet format	
<p>The recommendations in this safety data sheet reflect the knowledge available to us on the date of going to print. They are intended to give you hints for the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and waste disposal. This information cannot be transferred to other products. In those cases where the product mentioned in this safety data sheet is blended, mixed or processed with other materials or processed in any other way, the information contained in this safety data sheet cannot be related to the new material obtained in this way.</p>		