

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

African Tonka 30620

Version 1.0

Revision Date 18 OCT 2017

Print Date 18 OCT 2017

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

1.1 Product identifier

Product : African Tonka 30620
UFI : P9Y0-1153-200E-D51D

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

Intended Use Fragrances : Perfume compound

1.3 Details of the supplier of the safety data sheet

Company:
Perfumedom
Theodoros Ant. Vasiliadis
Ag. Panteleimonos 1, Thessaloniki 56123
Greece
Tel: +30 231 111 0366
Email: sales@perfumedom.com

1.4 Emergency telephone number

Emergency tel: +30 231 111 0366 (office hours only)

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Acute aquatic toxicity, Category 1	H400: Very toxic to aquatic life.
Chronic aquatic toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Administrative information:

Report Information: SDS_PL/EN/GHS_SDS_EU_CNTRY/20
Sales & Distribution Information: HA01/FR/DE10/01
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Hazard statements	:	H302 H317 H410	Harmful if swallowed. May cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	Prevention: P261 P273 P280 Response: P333 + P313 P362 + P364 P391	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Avoid release to the environment. Wear protective gloves. If skin irritation or rash occurs: Get medical advice/ attention. Take off contaminated clothing and wash it before reuse. Collect spillage.

Hazardous components which must be listed on the label:

- benzyl benzoate 120-51-4
- 2-acetyl-1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetra-methylnaphtalene (main isomer) 54464-57-2
- 2H-1-benzopyran-2-one (=coumarin) 91-64-5
- 2-methoxy-4-(2-propen-1-yl)-phenol (eugenol) 97-53-0
- 2-methyl-3-(4-methoxyphenyl)propanal 5462-06-6
- 2,6,6-trimethyl-Bicyclo[3.1.1]hept-2-ene (= alpha-pinene) 80-56-8
- 2-methoxy-4-propenylphenol (= isoeugenol) 97-54-1

2.3 Other hazards

Hazards not Otherwise Classified. : None

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

SECTION 3. Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No.	Classification	Concentration
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	EC-No. Registration number	(REGULATION (EC) No 1272/2008)	[Percent by weight]
benzyl benzoate	120-51-4 204-402-9 01-2119976371-33- 0000	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 70 - < 90
2-acetyl-1,2,3,4,5,6,7,8-octahydro- 2,3,8,8-tetra-methylnaphtalene (main isomer)	54464-57-2 259-174-3 01-2119489989-04- 0001 01-2119489989-04- 0000	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 2,5 - < 5
4-(2,6,6-Trimethylcyclohex-1-en-1- yl)but-3-en-2-one (= ionone beta)	14901-07-6 238-969-9 01-2119449921-34- 0000	Aquatic Chronic 2; H411	>= 1 - < 2,5
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8- hexamethylindeno[5,6-c]pyran	1222-05-5 214-946-9 01-2119488227-29- 0000 01-2119488227-29- 0003 01-2119488227-29- 0001	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2,5
2H-1-benzopyran-2-one (=coumarin)	91-64-5 202-086-7	Acute Tox. 4; H302 Skin Sens. 1B; H317	>= 0,1 - < 1
2-methoxy-4-(2-propen-1-yl)-phenol (eugenol)	97-53-0 202-589-1	Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 0,1 - < 1
2-methyl-3-(4- methoxyphenyl)propanal	5462-06-6 226-749-5 01-2120629103-67- 0000	Skin Sens. 1B; H317	>= 0,1 - < 1

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2,6,6-trimethyl-Bicyclo[3.1.1]hept-2-ene (= alpha-pinene)	80-56-8 201-291-9 01-2119519223-49-0000	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,1 - < 0,25
alpha cedrene	469-61-4 207-418-4	Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,025 - < 0,1
2-methoxy-4-propenylphenol (= isoeugenol)	97-54-1 202-590-7	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1A; H317	>= 0 - < 0,02

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4. First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : If on skin, rinse well with water.
- In case of eye contact : Remove contact lenses.
Immediately flush eyes for at least 15 minutes. Get medical attention.
- If swallowed : Induce vomiting immediately and call a physician.
Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

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4.2 Most important symptoms and effects, both acute and delayed

Symptoms : no data available
Risks : no data available

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : no data available

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Dry chemical
Alcohol-resistant foam
Carbon dioxide (CO₂)
Water spray

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

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

6.4 Reference to other sections

Not applicable

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Temperature class : no data available

Fire-fighting class : no data available

Dust explosion class : no data available

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : Ambient / 10-30°C (50-85°F)
Dry, well ventilated, preferably full, hermetically sealed

Advice on common storage : Protect against light.

German storage class : no data available

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : no data available

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

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Components	CAS-No.	Value	Control parameters	Update	Basis
alpha cedrene	469-61-4	NDS	0,002 mg/m3	2014-06-23	PL OEL
Further information	: 16: The values of carcinogenic factor (k) amounts: for dibenzo[a,h]anthracene - 5, benzo[a]pyren -1, benzo[a]anthracene - 0.1, benzo[b]fluoroanthene - 0.1, benzo[k]fluoroanthene - 0.1, indeno[1,2,3-c,d]pyrene -0,1, anthracene - 0.01, benzo[g,h,i]perylene - 0.01, and chrysene - 0.01 As a sum of concentration ratio and carcinogenic factor 9 carcinogenic (PAK)				

8.2 Exposure controls

Personal protective equipment

- Hand protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
- Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

Environmental exposure controls

- General advice : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state : liquid
Form : liquid
Colour : Pale yellow to yellow

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Taste	: not determined
Odour	: Oriental, woody, Vanilla-like
Odour Threshold	: Not applicable
Flash point	: > 107 °C Method: Grabner miniflash closed cup
Lower explosion limit	: not determined
Upper explosion limit	: not determined
Flammability (solid, gas)	: Not applicable
Oxidizing properties	: no data available
Auto-ignition temperature	: not determined
Decomposition temperature	: no data available
pH	: not determined
Melting point	: not determined
Boiling point	: not determined
Vapour pressure	: 0,0184 hPa at 20 °C Calculated (100,0 %)
Density	: 1 105,96 kg/m ³ at 20 °C
Bulk density	: Not applicable
Water solubility	: not determined
Solubility/qualitative	: practically insoluble
Partition coefficient: n-octanol/water	: Not applicable
Viscosity, kinematic	: no data available
Relative vapour density	: no data available
Evaporation rate	: no data available
Explosive properties	: no data available

9.2 Other information

Not applicable

SECTION 10. Stability and reactivity

10.1 Reactivity

none

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : no data available

10.5 Incompatible materials

Materials to avoid : no data available

10.6 Hazardous decomposition products

Hazardous decomposition : no data available

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products
Thermal decomposition : no data available

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity : Acute toxicity estimate
Dose: 561 mg/kg
Method: Calculation method

Acute oral toxicity

benzyl benzoate : LD50: 2 000 mg/kg Species: Rat

2-acetyl-1,2,3,4,5,6,7,8-
octahydro-2,3,8,8-tetra-
methylnaphthalene (main
isomer) : LD50: > 5 000 mg/kg Species: Rat

2H-1-benzopyran-2-one
(=coumarin) : LD50: 520 mg/kg Species: Rat

2-methoxy-4-(2-propen-1-yl)-
phenol (eugenol) : LD50: 2 130 mg/kg Species: Guinea pig

2,6,6-trimethyl-
Bicyclo[3.1.1]hept-2-ene (=
alpha-pinene) : LD50: 3 700 mg/kg Species: Rat

alpha cedrene : LD50: > 5 000 mg/kg Species: Rat

2-methoxy-4-propenylphenol
(= isoeugenol) : LD50: 1 560 mg/kg Species: Rat

Acute inhalation toxicity : No data is available on the product itself.

Acute dermal toxicity : No data is available on the product itself.

Acute dermal toxicity

benzyl benzoate : LD50: 4 000 mg/kg Species: Rabbit

2-acetyl-1,2,3,4,5,6,7,8-
octahydro-2,3,8,8-tetra-
methylnaphthalene (main
isomer) : LD50: > 5 000 mg/kg Species: Rabbit

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2-methyl-3-(4-methoxyphenyl)propanal : LD50: > 5 000 mg/kg Species: Rabbit

alpha cedrene : LD50: > 5 000 mg/kg Species: Rabbit

2-methoxy-4-propenylphenol (= isoeugenol) : LD50: 1 770 mg/kg Species: Rabbit

Acute toxicity (other routes of administration) : No data is available on the product itself.

Skin corrosion/irritation

Skin irritation : May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Eye irritation : No data is available on the product itself.

Respiratory or skin sensitisation

Sensitisation : No data is available on the product itself.

Germ cell mutagenicity

Germ cell mutagenicity : No data is available on the product itself.

Carcinogenicity

Carcinogenicity : No data is available on the product itself.

Reproductive toxicity

Reproductive toxicity : No data is available on the product itself.

Target Organ Systemic Toxicant - Single exposure

Target Organ Systemic Toxicant - Single exposure : No data is available on the product itself.

Target Organ Systemic Toxicant - Repeated exposure

Target Organ Systemic Toxicant - Repeated exposure : No data is available on the product itself.

Target Organ Systemic Toxicant - Repeated exposure Aspiration hazard

Aspiration toxicity : No data is available on the product itself.

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Phototoxicity

Phototoxicity : No data is available on the product itself.

Further information : no data available

SECTION 12. Ecological information

12.1 Toxicity

Toxicity to fish : no data available

Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

M-Factor

benzyl benzoate : 1

M-Factor

2-acetyl-1,2,3,4,5,6,7,8-

octahydro-2,3,8,8-tetramethylnaphthalene (main isomer)

M-Factor

1,3,4,6,7,8-hexahydro-

4,6,6,7,8,8-

hexamethylindeno[5,6-c]pyran

M-Factor

2,6,6-trimethyl-

Bicyclo[3.1.1]hept-2-ene (= alpha-pinene)

M-Factor

alpha cedrene : 10

Toxicity to bacteria : no data available

Toxicity to fish (Chronic toxicity) : no data available

Toxicity to daphnia and other aquatic invertebrates

(Chronic toxicity)

Acute aquatic toxicity : no data available

Chronic aquatic toxicity : no data available

Toxicity Data on Soil : no data available

Other organisms relevant to the environment : no data available

12.2 Persistence and degradability

Biodegradability : no data available

12.3 Bioaccumulative potential

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Bioaccumulation : no data available

12.4 Mobility in soil

Mobility : no data available

Distribution among : no data available

environmental compartments

Additional advice : no data available

Environmental fate and

pathways

Physico-chemical : no data available

removability

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects

Biochemical Oxygen : no data available

Demand (BOD)

Dissolved organic carbon : no data available

(DOC)

Chemical Oxygen Demand : no data available

(COD)

Adsorbed organic bound : no data available

halogens (AOX)

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

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product.

Do not re-use empty containers.

Dispose of in accordance with local regulations.

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SECTION 14. Transport information

ADR/RID/ADN

UN number : 3082
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(Benzyl benzoate, Octahydro-tetramethyl-naphthalenyl-
ethanone)
Transport hazard class(es) : 9
Packing group : III
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)
Environmentally hazardous : yes

IATA/CAO

UN number : 3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(Benzyl benzoate, Octahydro-tetramethyl-naphthalenyl-
ethanone)
Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : yes
Packing instruction (CAO) : 964
Packing instruction (PAX) : 964
Packing instruction (Ltd.
Qty.) : Y964

IMDG

UN number : 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(Benzyl benzoate, Octahydro-tetramethyl-naphthalenyl-
ethanone)
Class : 9
Packing group : III
Labels : 9
EmS Fire : F-A
EmS Spillage : S-F
Marine pollutant : yes
Benzyl benzoate Octahydro-tetramethyl-naphthalenyl-
ethanone
IMDG Code Segregation : None
Group

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SECTION 15. Regulatory information

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

Major Accident Hazard : ENVIRONMENTAL HAZARDS
Legislation : E1
Quantity 1: 100 t
Quantity 2: 200 t

Water contaminating class : WGK 2 water endangering
(Germany)

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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Key or legend to abbreviations and acronyms used in the safety data sheet

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - International Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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

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