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Fragrance No.: Green Bamboo 985.9906

1. Identification of the substance / preparation and company

Fragrance Nr.Green Bamboo

Usage, recommended: ATAVIS GRAF AG, Reinigungsmaterial, Paradiesrain 30, 4123 Allschwil
 Manufacturer / Supplier address: Auskunftgebender Bereich: Tel +41 61 486 95 95, Fax +41 61 486 95 99
 E-Mail: info@atavis.ag
 Information / Emergency call: Schweizerisches Toxikologisches Informationszentrum, Zürich
 41 (0)44 251 51 51

2. Hazards identification

Declaration acc. 1999/45/EC: Xi N; R 38-43-51/53

R 38 Irritating to skin.

R 43 May cause sensitization by skin contact.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Additional hazard informations: Product is combustible. Direct contact with undiluted product may lead to irritations, e.g. of skin and eyes. Further informations see sections 9,11,12 and 15.

3. Composition / Information on ingredients

Chemical nature: Fragrance compound (Multi-component mixture)

CAS-Nr. / EINECS-No.: Not applicable, product is a mixture

INCI / CTFA - Description: Parfum / Fragrance

Tariff-No.: 33029090

Hydrocarbons [%]: 00.9 (calculated)

Dangerous ingredients which have to be mentioned acc. to 1999/45/EC:

Concentration [%]	Chemical Name CAS	EINECS	Symbol	Risk phrases
25.0	1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one 54464-57-2 / 68155-66-8 / 68155-67-9	915-730-3	Xi,N	R 38-43-51/53
13.1	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran 1222-05-5	214-946-9	N	R 50/53
4.3	linalool 78-70-6	201-134-4	Xi	R 38
3.5	pentadecan-15-olide 106-02-5	203-354-6	Xi	R 43
2.6	linalyl acetate 115-95-7	204-116-4	Xi	R 38
2.5	2-(4-tert-butylbenzyl)propionaldehyde 80-54-6	201-289-8	Xn,N	R 22-38-43-51/53-62
1.5	1,4-dioxacycloheptadecane-5,17-dione 105-95-3	203-347-8	N	R 51/53
1.4	3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one 127-51-5	204-846-3	Xi,N	R 36/38-43-51/53
1.3	citronellol 106-22-9	203-375-0	Xi N	R 38-43-51/53
1.0	Oxacyclohexadecen-2-one 34902-57-3 / 111879-80-2	422-320-3	N	R 50/53
1.0	(ethoxymethoxy)cyclododecane 58567-11-6	261-332-1	Xi,N	R 38-43-51/53
0.8	2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol 28219-61-6	248-908-8	Xi,N	R 36-50/53
0.6	Methyl ionone 1335-46-2	215-635-0	Xi,N	R 36/38-51/53

OSHA MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) 1907/2006

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0.5	a-hexylcinnamaldehyde 101-86-0 / 165184-98-5	202-983-3 / 639-566-4	Xi,N	R 38-43-50/53
0.4	[3R-(3a,3aβ,6a,7β,8aa)]-octahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-6-ol 77-53-2	201-035-6	N	R 51/53
0.3	a-methyl-1,3-benzodioxole-5-propionaldehyde 1205-17-0	214-881-6	Xi,N	R 43-51/53
0.3	Dipentene [1-Methyl-4-(1-methylvinyl)cyclohexene] 138-86-3	205-341-0	Xn,N	R 10-38-43-50/53-65
0.2	alpha-Cedrene (Remark: LC/EC50 ≤ 0.1mg/l) 469-61-4	207-418-4	N	R 50/53-65
0.2	2,6-di-tert-butyl-p-cresol 128-37-0	204-881-4	N	R 50/53
0.2	a,β,2,2,3-pentamethylcyclopent-3-ene-1-butanol 65113-99-7	265-453-0	Xi,N	R 36-51/53
0.2	1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one 33704-61-9	251-649-3	Xi,N	R 36/38-43-51/53
0.1	1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one 57378-68-4	260-709-8	Xi,N	R 22-38-43-50/53
0.1	3,7-dimethyloctan-1-ol 106-21-8	203-374-5	Xi,N	R 38-51/53
0.1	pin-2(10)-ene 127-91-3 / 18172-67-3	204-872-5 / 242-060-2	Xn,N	R 10-38-43-50/53-65
0.1	undecan-4-olide 104-67-6	203-225-4	N	R 51/53

Exposure limited substances: See Section 8.

4. First-aid measures

Inhalation: In case of excessive inhalation remove the person to fresh air and keep at rest. Obtain medical advice.

Skin contact: Remove contaminated clothing. Wash affected areas with plenty of water and soap. If irritation occurs, consult a physician.

Eye contact: Rinse eyes immediately with running water for at least ten minutes. Consult an ophthalmologist.

Ingestion: Rinse mouth with water. Give plenty of water to drink. Do not induce vomiting. Obtain medical advice.

5. Fire-fighting measures

Suitable extinguishing media: Carbon dioxide, foam, dry chemical powder, water mist

Extinguishing media not to be used: Never use a direct water jet

Exposure hazards from combustion products: Burning liberates carbon dioxide, carbon monoxide and smoke. Do not inhale fumes and smoke.

Special personal protective equipment: Wear full-protective clothing. Use a self-contained breathing apparatus.

6. Accidental release measures

Personal precautions: Provide good ventilation. Remove ignition sources. Refer also to section 8.

Environmental precautions: Avoid discharge into sewerage and public water systems.

Disposal methods: Dike and absorb with an inert material e.g. sand, silica. Dispose of the material in approved containers and in accordance with local waste legislation.

7. Handling and storage

General: Obey the common known rules and precautions for handling with chemicals.

Fire/Explosion protection: Keep away from ignition sources and open flame. Provide for proper ventilation.

Storage: Store in full sealed containers at cool constant temperature.

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8. Exposure controls / Personal protection

General protection and hygiene: Do not eat, drink or smoke in work area. Use good personal hygiene practices.
 Personal protective equipment: should be selected depending on exposure (concentration, quantity) to hazardous substances. The resistance of equipment should be ascertained with the supplier.
 Body protection: Light, antistatic protective suit recommended.
 Respiratory protection: required when vapors/aerosols are generated. Filter A (acc. DIN 3181)
 Eye protection: Safety goggles required.
 Hand protection: Full contact: Material: Nitril, Thickness: 0.5 mm; Breakthrough time: > 480 min.
 Splas contact: Material: Natural rubber; Thickness: 1 mm; Breakthr. time: 30 min.
 Gloves shall comply with EC directive 89/686/EEC and resultant standard EN 374.

These recommendations are based on own experience, literature data and informations from gloves' manufacturers or are derived by conclusion from similar substances. It should be obeyed, that the possible time of use in practice may deviate from the breakthrough times derived from EN 374 due to many factors, e.g. temperature.

Exposition/Technical measures: Vapors must be minimized by adequate ventilation. See also section 7.

Exposure limited substances:

CAS-No	Chem. Name / Exposition
80-54-6	2-(4-tert-butylbenzyl)propionaldehyde
2.5%	REACH data (from e-SDS of pure substance): DNEL Worker: long-term exp., systemic effects: dermal 2.075 [Consumer: 1.0375] mg/kg; inhalation 0.44 [Consumer: 0.11] mg/m ³ , oral [Consumer: 0.0625 mg/kg]; short-term exp., local effects: dermal 0.41 [Consumer: 0.41] mg/cm ²
25265-71-8	oxydipropanol
9.7%	TRGS 900 (DE) AGW Dampf und Aerosole, einatembare Fraktion: 100 mg/m ³ E, REACH data (from SDS of pure substance): PNEC: freshwater 0.1mg/l; marine 0.01mg/l; intermittent release 1mg/l; STP 1g/l; sediment freshwater (marine) 0.238 (0.0238) mg/kg; soil 0.0253 mg/kg
24851-98-7	methyl 3-oxo-2-pentylcyclopentaneacetate
20%	In several european countries: OEL 260/270 mg/m ³ ; STEL 260/540 mg/m ³ DNEL/PNEC data (from SDS of pure substance): DNEL Worker [Consumer]: long-term, systemic tox.: dermal 9.04 [5.43] mg/kg; inhalation 29.3 [8.69] mg/m ³ ; oral [2.5] mg/kg; PNEC: freshwater 0.015mg/l; marine 0.0015mg/l; STP 10mg/l; sediment 1g/l
57-2 / 68155-66-8 / 68155-66-8	1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one
25%	REACH data (from SDS of pure substance): DNEL Worker [Consumer]: a) skin, long-term (8h): acute/local effects 0.1011 [0.0506] mg/cm ² ; chronic effects 1.73 [0.86] mg/kg bw/d; b) inhalation long-term: chronic effects 1.76 [0.43] mg/m ³
115-95-7	linalyl acetate
2.6%	REACH data (from e-SDS of pure substance): DNEL Worker [Consumer]: a) long-term, systemic tox.: dermal 2.5 [1.25] mg/kg; inhalation 2.75 [0.7] mg/m ³ ; oral [0.2] mg/kg; b) short-term local: dermal 8.0 [8.0] mg/cm ²
78-70-6	linalool
4.3%	REACH data (from e-SDS of pure substance): DNEL Worker [Consumer]: a) long-term, systemic tox.: dermal 2.5 [1.25] mg/kg; inhalation 2.8 [0.7] mg/m ³ ; oral [0.2] mg/kg; b) short-term systemic tox.: dermal 5.0 [5.0] mg/kg; inhalation 16.5 [4.1] mg/m ³
106-22-9	citronellol
1.3%	In Turkey: OEL 0.9 mg/m ³ ; REACH data (from e-SDS of pure substance): DNEL Worker [Consumer]: a) long-term, systemic tox.: dermal 45.8 [27.5] mg/kg; inhalation 161.6 [47.8] mg/m ³ ; oral [13.8] mg/kg
127-51-5	3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one
1.4%	In Turkey: OEL 0.9 mg/m ³

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9. Physical and chemical properties

Physical state: fluid
Solubility in water: scarcely soluble in water
Colour: pale yellow - yellow
Odour: floral, green, fruity, aquatic

Flashpoint: 108 [°C] (Closed Cup)
Density: 0.9560 - 0.9660 [g/cm³, 20°C]
Refractive Index: 1.4730 - 1.4830 [20°C]
Vapour pressure app.: 0.08 [hPa/20°C] (calculated)

Explosion limits: not determined
Ignition temperature: not determined
Viscosity: not determined
pH-Value: not determined

10. Stability and Reactivity

Conditions to avoid: Stable under normal conditions. Avoid heat and any kinds of ignition sources.
Materials to avoid: Strong oxidizing agents.
Hazardous decomposition products: Under normal conditions of storage, no spontaneous decomposition will occur.

11. Toxicological information

The declaration has been made in accordance with calculation procedure of the DPD 1999/45/EEC. See sections 3 and 15. Specific experimental toxicological data have not been determined.

12. Ecological information

The declaration has been made in accordance with calculation procedure of the DPD 1999/45/EEC. See sections 3 and 15. No specific ecotoxicological data and/or biodegradation data have been determined for this product.

13. Disposal considerations

Prevent contamination of soil, ground and waters. Do not dispose of into environment or into sewerage. The product and its empty container have to be disposed of in accordance with local regulations.

14. Transport information

	UN-No.	Class	Packaging group	Marine Pollutant
Road (ADR/RID)	3082	9	III	
Air (IATA)	3082	9	III	
Sea (IMDG)	3082	9	III	P

Proper Shipping name: Environmentally hazardous substance, liquid, n.o.s. (1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran (HHCB); 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-ones)

15. Regulatory Information

Classification and labelling according to 1999/45/EEC:

Symbol: Xi Irritant
N Dangerous for the environment

contains: (Ethoxymethoxy)cyclododecane
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-ones
3-(4-tert-Butylphenyl)-2-methylpropanal
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one
Citronellol
Oxacyclohexadecan-2-one

R/S-Phrases: R 38 Irritating to skin.
R 43 May cause sensitization by skin contact.
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S 24 Avoid contact with skin.
S 37 Wear suitable gloves.
S 61 Avoid release to the environment. Refer to special instructions / safety data sheets.

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Special labelling regulations acc. to 1999/45/EC, Annex V :

16. Other information

The information on this Material Safety Data Sheet (MSDS) was obtained from current and reputable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. It is the user's responsibility to assume liability for loss, injury, damage, or expense resulting from improper use of this product. Any previous MSDSs of this product mentioned above are hereby replaced with this new document. We urge you to make this information available as appropriate in your organization and to any others with whom you arrange to handle this product.

Changes vs. last version (Note: only possible changes in EU hazard and/or transport classification will be remarked):

Risk-phrases (Glossary):

R 10	Flammable.
R 22	Harmful if swallowed.
R 36	Irritating to eyes.
R 36/38	Irritating to eyes and skin.
R 38	Irritating to skin.
R 43	May cause sensitization by skin contact.
R 50/53	Very toxic to aquatic organisms, may cause long- term adverse effects in the aquatic environment
R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 62	Possible risk of impaired fertility.
R 65	Harmful: may cause lung damage if swallowed.