



SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation of the mixture	GLORIA VANDERBILT MISS VANDERBILT EAU DE TOILETTE
Synonyms	None.
SDS number	30-41-0000749
Product code	539409 2
Issue date	09-28-2020
Version number	01

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

Identified uses	Personal care product used for cosmetic effect.
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name	L'Oréal
Address	41 Rue Martre 92117 Clichy France
Telephone	+ 1 732 499-2745
e-mail	nacorpEuropeSDSrequest@loreal.com

1.4. Emergency telephone number

France National Poisons Control Center	ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
INFOTRAC	+1 352-323-3500 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

Flammable liquids	Category 2	H225 - Highly flammable liquid and vapor.
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Health hazards

Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Skin sensitization	Category 1B	H317 - May cause an allergic skin reaction.

Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard	Category 3	H412 - Harmful to aquatic life with long lasting effects.
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Hazard summary

May be ignited by heat, sparks or flames. Causes serious eye irritation. May cause an allergic skin reaction. Dangerous for the environment if discharged into watercourses. Occupational exposure to the substance or mixture may cause adverse health effects. This is a consumer care product that is safe for consumers when used according to the label directions. Like many consumer products, a small number of individuals may experience reactions such as redness, rash and / or swelling upon prolonged or repeated skin contact or eye contact.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains:	2-METHYL-3-(3,4-METHYLENEDIOXYPHENYL)PROPANAL, BENZYL SALICYLATE, D-LIMONENE, ETHANOL, HYDROXYCITRONELLAL, LINALOOL, LINALYL ACETATE, TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES
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Hazard pictograms



Signal word

Danger

Hazard statements

H225	Highly flammable liquid and vapor.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P264	Wash 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

P101	If medical advice is needed, have product container or label at hand.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use appropriate media to extinguish.

Storage

P403 + P235	Store in a well-ventilated place. Keep cool.
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Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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Supplemental label information 7,24% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 7,24% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

2.3. Other hazards Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
ETHANOL	71,69	64-17-5 200-578-6	01-2119457610-43	603-002-00-5	
Classification:	Flam. Liq. 2;H225, Eye Irrit. 2;H319				
TETRAMETHYL ACETYLOCTAHYDRONAPHTHALEN ES	1,21	- 915-730-3	01-2119489989-04	-	
Classification:	Skin Irrit. 2;H315, Skin Sens. 1B;H317, Aquatic Chronic 2;H411				
LINALOOL	0,31	78-70-6 201-134-4	01-2119474016-42	603-235-00-2	
Classification:	Skin Irrit. 2;H315, Skin Sens. 1B;H317, Eye Irrit. 2;H319, Acute Tox. 3;H331				
BENZYL SALICYLATE	0,23	118-58-1 204-262-9	01-2119969442-31	-	
Classification:	Skin Sens. 1B;H317, Eye Irrit. 2;H319, Aquatic Chronic 3;H412				
LINALYL ACETATE	0,21	115-95-7 204-116-4	01-2119454789-19	-	
Classification:	Skin Irrit. 2;H315, Skin Sens. 1B;H317, Eye Irrit. 2;H319				

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
HYDROXYCITRONELLAL	0,19	107-75-5 203-518-7	01-2119973482-31	-	
Classification:	Skin Sens. 1B;H317, Eye Irrit. 2;H319				
OXACYCLOHEXADECENONE	0,19	34902-57-3 422-320-3	01-0000016883-62	606-092-00-4	
Classification:	Aquatic Acute 1;H400, Aquatic Chronic 1;H410				
HEXAMETHYLINDANOPYRAN	0,15	1222-05-5 214-946-9	01-2119488227-29	603-212-00-7	
Classification:	Aquatic Acute 1;H400, Aquatic Chronic 1;H410				
D-LIMONENE	0,14	5989-27-5 227-813-5	01-2119529223-47	601-029-00-7	
Classification:	Flam. Liq. 3;H226, Skin Irrit. 2;H315, Skin Sens. 1;H317, Aquatic Acute 1;H400, Aquatic Chronic 1;H410				
2-METHYL-3-(3,4-METHYLENEDIOXYPHENYL)PROPANAL	0,11	1205-17-0 214-881-6	01-2120740119-58	-	
Classification:	Skin Sens. 1B;H317, Aquatic Chronic 2;H411				

List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).
M: M-factor
PBT: persistent, bioaccumulative and toxic substance.
vPvB: very persistent and very bioaccumulative substance.
All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
Wash contaminated clothing before reuse.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing. May cause an allergic skin reaction. Dermatitis. Rash.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards Highly flammable liquid and vapor.

5.1. Extinguishing media

Suitable extinguishing media Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

For emergency responders Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep out of the reach of children. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s) Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Belgium. Exposure Limit Values. Components

Type	Value
ETHANOL (CAS 64-17-5)	1907 mg/m3 1000 ppm

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984 Components

Type	Value
ETHANOL (CAS 64-17-5)	9500 mg/m3
Regulatory status: Indicative limit (VL)	5000 ppm
Regulatory status: Indicative limit (VL)	
VME	1900 mg/m3
Regulatory status: Indicative limit (VL)	1000 ppm
Regulatory status: Indicative limit (VL)	

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value
D-LIMONENE (CAS 5989-27-5)	TWA	28 mg/m3 5 ppm
ETHANOL (CAS 64-17-5)	TWA	380 mg/m3 200 ppm

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Type	Value
D-LIMONENE (CAS 5989-27-5)	AGW	28 mg/m3 5 ppm
ETHANOL (CAS 64-17-5)	AGW	380 mg/m3 200 ppm

Italy. Occupational Exposure Limits

Components	Type	Value
ETHANOL (CAS 64-17-5)	STEL	1000 ppm

Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817

Components	Type	Value
ETHANOL (CAS 64-17-5)	TWA	1900 mg/m3

Spain. Occupational Exposure Limits

Components	Type	Value
D-LIMONENE (CAS 5989-27-5)	TWA	168 mg/m3 30 ppm
ETHANOL (CAS 64-17-5)	STEL	1910 mg/m3 1000 ppm

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs) Not available.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering controls Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection Applicable for industrial settings only. Face shield is recommended. Wear safety glasses with side shields (or goggles).

Skin protection

- Hand protection Applicable for industrial settings only. Wear appropriate chemical resistant gloves.

- Other Applicable for industrial settings only. Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection Applicable for industrial settings only. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.
Environmental exposure controls	Inform appropriate managerial or supervisory personnel of all environmental releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state	Liquid.
Form	Lotion
Color	Clear.
Odor	Characteristic.
Odor threshold	Not available.
pH	Not applicable.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	> 95 °F (> 35 °C)
Flash point	62,6 °F (17,0 °C) Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

9.2. Other information

Density	0,851 - 0,859 g/cm³
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SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidizing agents.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.
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Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
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Skin contact	May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation.
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms	Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing. May cause an allergic skin reaction. Dermatitis. Rash.

11.1. Information on toxicological effects

Acute toxicity Not known.

Product	Species	Test Results
GLORIA VANDERBILT MISS VANDERBILT EAU DE TOILETTE		
<u>Acute</u>		
Inhalation		
<i>Vapor</i>		
ATEmix		980,4 mg/l
Components	Species	Test Results
2-METHYL-3-(3,4-METHYLENEDIOXYPHENYL)PROPANAL (CAS 1205-17-0)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg bw
Oral		
LD50	Rat	3600 mg/kg bw
BENZYL SALICYLATE (CAS 118-58-1)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	14150 mg/kg bw
Oral		
LD50	Rat	2227 mg/kg bw
D-LIMONENE (CAS 5989-27-5)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 5000 mg/kg OECD 402
Oral		
LD50	Rat	4400 mg/kg
ETHANOL (CAS 64-17-5)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 20000 mg/kg
Inhalation		
<i>Vapor</i>		
LC50	Rat	124,7 mg/l, 4 h OECD 403
Oral		
LD50	Rat	10470 mg/kg OECD 401
HEXAMETHYLINDANOPYRAN (CAS 1222-05-5)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 10000 mg/kg OECD 402
Oral		
LD50	Rat	> 4640 mg/kg OECD 401
HYDROXYCITRONELLAL (CAS 107-75-5)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC0	Rat	825 mg/l, 8 h

Components	Species	Test Results
Oral LD50	Rat	> 6400 mg/kg OECD 401
LINALOOL (CAS 78-70-6)		
<u>Acute</u>		
Dermal LD50	Rabbit	5610 mg/kg bw OECD 402
Inhalation <i>Vapor</i> LC50	Mouse	> 3,2 mg/l, 3 h
Oral LD50	Rat	2790 mg/kg OECD 401
LINALYL ACETATE (CAS 115-95-7)		
<u>Acute</u>		
Dermal LD50	Rabbit	> 5000 mg/kg
Inhalation LC50	Rat	> 18,94 mg/L air OECD 403
Oral LD50	Rat	> 9000 mg/kg
OXACYCLOHEXADECENONE (CAS 34902-57-3)		
<u>Acute</u>		
Dermal LD50	Rat	> 2000 mg/kg OECD 402
Oral LD50	Rat	> 2000 mg/kg OECD 423
TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES		
<u>Acute</u>		
Dermal LD50	Rat	> 5000 mg/kg OECD 402
Oral LD50	Rat	> 5000 mg/kg OECD 401
Skin corrosion/irritation	Due to partial or complete lack of data the classification is not possible. No adverse effects due to skin contact are expected.	
Irritation Corrosion - Skin		
BENZYL SALICYLATE	OECD 404	Result: Not Irritating Species: Rabbit
ETHANOL	OECD 404	Result: Not Irritating Species: Rabbit
HYDROXYCITRONELLAL	OECD 404	Result: Not Irritating Species: Rabbit
OXACYCLOHEXADECENONE	OECD 404	Result: Not Irritating Species: Rabbit
D-LIMONENE	OECD 404	Result: Slightly Irritating Species: Rabbit
HEXAMETHYLINDANOPYRAN	OECD 404	Result: Slightly Irritating Species: Rabbit
LINALYL ACETATE	OECD 405	Result: Irritating Species: Rabbit
TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES	OECD 439	Result: Irritating Species: In vitro
2-METHYL-3-(3,4-METHYLENEDIOXYPHENYL)PR OPANAL		Result: Not Irritating

Serious eye damage/eye irritation

Causes serious eye irritation.

Irritation Corrosion - Eye

HYDROXYCITRONELLAL

Draize Test

Result: Irritating

Species: Rabbit

BENZYL SALICYLATE

Draize

Result: Irritating

Species: Rabbit

LINALYL ACETATE

OECD 404, Based on test data for structurally similar materials.

Result: Irritating

Species: Rabbit

ETHANOL

OECD 405

Result: Irritating

Species: Rabbit

LINALOOL

OECD 405

Result: Irritating

Species: Rabbit

D-LIMONENE

OECD 405

Result: Not Irritating

Species: Rabbit

HEXAMETHYLINDANOPYRAN

OECD 405

Result: Not Irritating

Species: Rabbit

OXACYCLOHEXADECENONE

OECD 405

Result: Not Irritating

Species: Rabbit

TETRAMETHYL

ACETYLOCTAHYDRONAPHTHALENES

Result: Not Irritating

Respiratory sensitization

Due to partial or complete lack of data the classification is not possible.

Skin sensitization

May cause an allergic skin reaction.

Sensitization

HYDROXYCITRONELLAL

OECD 429

Result: Sensitizing

Species: Mouse

Skin sensitization

ETHANOL

OECD 406

Result: Not Sensitizing

Species: Guinea pig

OXACYCLOHEXADECENONE

OECD 406

Result: Not Sensitizing

Species: Guinea pig

BENZYL SALICYLATE

OECD 429

Result: Sensitizing

Species: Mouse

LINALOOL

OECD 429

Result: Sensitizing

Species: Mouse

LINALYL ACETATE

OECD 429

Result: Sensitizing

Species: Mouse

TETRAMETHYL

ACETYLOCTAHYDRONAPHTHALENES

OECD 429

Result: Sensitizing

Species: Mouse

D-LIMONENE

OECD 429, EC3: 22%

Result: Sensitizing

Species: Mouse

HEXAMETHYLINDANOPYRAN

Result: Not Sensitizing

Species: Guinea pig

2-METHYL-3-(3,4-METHYLENEDIOXYPHENYL)PROPANAL

Result: Sensitizing

Species: Mouse

Germ cell mutagenicity

Due to partial or complete lack of data the classification is not possible.

Mutagenicity

BENZYL SALICYLATE

Result: In vitro and in vivo tests did not show mutagenic effects.

D-LIMONENE

Result: In vitro and in vivo tests did not show mutagenic effects.

ETHANOL

Result: In vitro and in vivo tests did not show mutagenic effects.

Mutagenicity

HEXAMETHYLINDANOPYRAN

Result: In vitro and in vivo tests did not show mutagenic effects.

HYDROXYCITRONELLAL

Result: In vitro and in vivo tests did not show mutagenic effects.

LINALOOL

Result: In vitro and in vivo tests did not show mutagenic effects.

TETRAMETHYL

ACETYLOCTAHYDRONAPHTHALENES

Result: In vitro and in vivo tests did not show mutagenic effects.

LINALYL ACETATE

Result: In vitro tests did not show mutagenic effects

OXACYCLOHEXADECENONE

Result: In vitro tests did not show mutagenic effects

Carcinogenicity

Not classifiable as to carcinogenicity to humans. Due to partial or complete lack of data the classification is not possible.

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Not listed.

IARC Monographs. Overall Evaluation of Carcinogenicity

D-LIMONENE (CAS 5989-27-5)

3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity

Due to partial or complete lack of data the classification is not possible.

Developmental effects

ETHANOL

> 20000 ppm OECD 414, No effects on development

Result: NOAEL

Species: Rat

OXACYCLOHEXADECENONE

>= 1000 mg/kg bw/d OECD 414

Result: NOAEL

Species: Rat

LINALYL ACETATE

1000 mg/kg bw/d OECD 414, Based on test data for structurally similar materials.

Result: NOAEL

Species: Rat

HEXAMETHYLINDANOPYRAN

150 mg/kg bw/d OECD 414

Result: NOAEL

Species: Rat

TETRAMETHYL

ACETYLOCTAHYDRONAPHTHALENES

480 mg/kg bw/d OECD 414, No effects on development

Result: NOAEL

Species: Rat

D-LIMONENE

591 mg/kg bw/d

Result: NOAEL

Species: Rat

Reproductivity

OXACYCLOHEXADECENONE

>= 1000 mg/kg bw/d OECD 415

Result: NOAEL

Species: Rat

HEXAMETHYLINDANOPYRAN

20 mg/kg bw/d OECD 426

Result: NOAEL

Species: Rat

ETHANOL

20700 mg/kg bw/d OECD 416, No effects on fertility

Result: NOAEL

Species: Rat

LINALYL ACETATE

365 mg/kg bw/d OECD 421, Based on test data for structurally similar materials.

Result: NOAEL

Species: Rat

LINALOOL

365 mg/kg bw/d OECD 421, No effects on fertility

Result: NOAEL

Species: Rat

Specific target organ toxicity - single exposure

Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity - repeated exposure

Due to partial or complete lack of data the classification is not possible.

OXACYCLOHEXADECENONE

>= 1000 mg/kg bw/d OECD 408

Result: NOAEL

Species: Rat

Test Duration: 90 d

LINALOOL

117 mg/kg bw/d OECD 407, Oral

Result: NOAEL

Species: Rat

Test Duration: 28 d

Specific target organ toxicity - repeated exposure

LINALYL ACETATE	117 mg/kg bw/d OECD 407, Oral Result: NOAEL Species: Rat Test Duration: 28 d
TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES	150 mg/kg bw/d OECD 407, Oral Result: NOAEL Species: Rat Test Duration: 28 d
HEXAMETHYLINDANOPYRAN	150 mg/kg bw/d OECD 408 Result: NOAEL Species: Rat Test Duration: 90 d
D-LIMONENE	1650 mg/kg bw/d OECD 407 Result: NOAEL Species: Rat Test Duration: 16 d
ETHANOL	1730 mg/kg bw/d OECD 408, Oral Result: NOAEL Species: Rat
LINALOOL	250 mg/kg bw/d OECD 411, Dermal Result: NOAEL Species: Rat Test Duration: 90 d
LINALYL ACETATE	250 mg/kg bw/d OECD 411, Dermal Result: NOAEL Species: Rat Test Duration: 91 d
HYDROXYCITRONELLAL	250 mg/kg bw/d, Oral Result: NOAEL Species: Rat Test Duration: 24 mo 70 mg/m3 air OECD 412 Result: NOAEL Species: Rat Test Duration: 14 d

Aspiration hazard Due to partial or complete lack of data the classification is not possible.

Mixture versus substance information No information available.

Other information May cause allergic respiratory and skin reactions. The reference to any animal testing for individual constituents mentioned in this document is based on public, third-party data.

SECTION 12: Ecological information

12.1. Toxicity Harmful to aquatic life with long lasting effects. Based on available data, the classification criteria are not met for hazardous to the aquatic environment, acute hazard.

Components	Species		Test Results
2-METHYL-3-(3,4-METHYLENEDIOXYPHENYL)PROPANAL (CAS 1205-17-0)			
Aquatic			
Acute			
Crustacea	EC50	Daphnia magna	8,3 mg/l, 48 h
BENZYL SALICYLATE (CAS 118-58-1)			
Aquatic			
Acute			
Algae	EC50	Pseudokirchneriella subcapitata	1,29 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	1,16 mg/l, 48 h OECD 202
Fish	LC50	Danio rerio	1,03 mg/l, 96 h EU C.1
D-LIMONENE (CAS 5989-27-5)			
Aquatic			
Acute			
Algae	EC50	Pseudokirchneriella subcapitata	0,25 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	0,421 mg/l, 48 h OECD 202
Fish	LC50	Pimephales promelas	0,702 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage	3,94 mg/l, 3 h OECD 209

Components		Species	Test Results
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	0,08 mg/l, 21 d OECD 211
Fish	NOEC	Pimephales promelas	0,37 mg/l, 8 d OECD 212
ETHANOL (CAS 64-17-5)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	22200 mg/l, 96 h
Crustacea	EC50	Ceriodaphnia dubia	5012 mg/l, 48 h
Fish	LC50	Pimephales promelas	15300 mg/l, 96 h
Other	IC50	Activated sludge of a predominantly domestic sewage	> 1000 mg/l, 3 h
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	9,6 mg/l, 9 d
Fish	NOEC	Danio rerio	250 mg/l, 120 h OECD 212
HEXAMETHYLINDANOPYRAN (CAS 1222-05-5)			
<i>Acute</i>			
Other	EC0	Activated sludge, industrial	10 mg/l, 5 d OECD 301 D
Aquatic			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	> 0,854 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	0,3 mg/l, 48 h OECD 202
Fish	LC50	Oryzias latipes	0,95 mg/l, 96 h OECD 203
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	0,111 mg/l, 21 d OECD 211
Fish	NOEC	Pimephales promelas	0,068 mg/l, 36 d OECD 210
HYDROXYCITRONELLAL (CAS 107-75-5)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Desmodesmus subspicatus	123,32 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	410 mg/l, 48 h EU C.2
Fish	LC50	Leuciscus idus	31,6 mg/l, 96 h DIN 38412, 15
Other	EC20	Activated sludge of a predominantly domestic sewage	> 1000 mg/l, 30 min OECD 209
LINALOOL (CAS 78-70-6)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Green algae (Scenedesmus acutus)	88,3 mg/l, 96 h
Crustacea	EC50	Daphnia magna	59 mg/l, 48 h
Fish	LC50	Oncorhynchus mykiss	27,8 mg/l, 96 h
Other	EC50	Activated sludge of a predominantly domestic sewage	> 100 mg/l, 3 h
LINALYL ACETATE (CAS 115-95-7)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Desmodesmus subspicatus	62 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	15 mg/l, 48 h OECD 202
Fish	LC50	Cyprinus carpio	11 mg/l, 96 h OECD 203
Other	EC20	Activated sludge of a predominantly domestic sewage	> 1000 mg/l, 30 min ISO 8192

Components	Species		Test Results
OXACYCLOHEXADECENONE (CAS 34902-57-3)			
Aquatic			
Acute			
Algae	EC50	Desmodesmus subspicatus	0,4 mg/l, 72 h EU C.3
Crustacea	EC50	Daphnia magna	> 0,6 mg/l, 48 h OECD 202
Fish	LC50	Oncorhynchus mykiss	> 0,803 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage	> 100 mg/l, 3 h OECD 209
Chronic			
Crustacea	NOEC	Daphnia magna	0,068 mg/l, 21 d OECD 211
Fish	NOEC	Pimephales promelas	0,027 mg/l, 33 d OECD 210
TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES			
Aquatic			
Acute			
Algae	EC50	Desmodesmus subspicatus	> 2,6 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	1,38 mg/l, 48 h OECD 202
Fish	LC50	Lepomis macrochirus	1,3 mg/l, 96 h OECD 203
Other	NOEC	Activated sludge of a predominantly domestic sewage	> 100 mg/l, 42 h OECD 301 F
Chronic			
Crustacea	NOEC	Daphnia magna	0,448 mg/l, 21 d OECD 211
Fish	NOEC	Danio rerio	0,3 mg/l, 30 d OECD 210

12.2. Persistence and degradability

Biodegradability

Percent degradation (Aerobic biodegradation)

2-METHYL-3-(3,4-METHYLENEDIOXYPHENYL)PROPA
NAL Result: Not Readily Biodegradable

BENZYL SALICYLATE 93 % OECD 301 F
Result: Readily Biodegradable
Test Duration: 28 d

ETHANOL 84 %
Result: Readily Biodegradable
Test Duration: 20 d

HEXAMETHYLINDANOPYRAN 2 % OECD 301 B
Result: Not Readily Biodegradable
Test Duration: 28 d

LINALYL ACETATE 70 - 80 % OECD 310 F
Result: Readily Biodegradable
Test Duration: 28 d

OXACYCLOHEXADECENONE 96,7 % OECD 301 F
Result: Readily Biodegradable
Test Duration: 28 d

TETRAMETHYL
ACETYLOCTAHYDRONAPHTHALENES 0 % OECD 301 C
Result: Not Readily Biodegradable

Percent degradation (Aerobic biodegradation-inherent)

HYDROXYCITRONELLAL 80 - 90 % OECD 301 F
Result: Readily Biodegradable
Test Duration: 28 d

Percent degradation (Aerobic biodegradation-soil)

LINALOOL 64,2 % OECD 301D
Result: Readily Biodegradable

12.3. Bioaccumulative potential

Partition coefficient

n-octanol/water (log Kow)

BENZYL SALICYLATE 4 OECD 117
D-LIMONENE 4,28 OECD 117
ETHANOL -0,31
HEXAMETHYLINDANOPYRAN 5,3
HYDROXYCITRONELLAL 1,68 OECD 107
LINALOOL 2,97
OXACYCLOHEXADECENONE 5,45 OECD 123

Bioconcentration factor (BCF)

HEXAMETHYLINDANOPYRAN

1584 OECD 305 E

Species: *Lepomis macrochirus*

TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES

603 OECD 305

12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	Not a PBT or vPvB substance or mixture.
12.6. Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.
12.7. Additional information	The reference to any animal testing for individual constituents mentioned in this document is based on public, third-party data.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information**ADR****FINISHED GOODS**

14.1. UN number	UN1266
14.2. UN proper shipping name	PERFUMERY PRODUCTS, Limited Quantity
14.3. Transport hazard class(es)	
Class	3
Label(s)	Limited Quantity
Hazard No. (ADR)	33
Tunnel restriction code	D/E
14.4. Packing group	II
14.5. Environmental hazards	No
14.6. Special precautions for user	Not available.
LTD QTY Net Inner Capacity	5.0 L

BULK

14.1. UN number	UN1266
14.2. UN proper shipping name	PERFUMERY PRODUCTS
14.3. Transport hazard class(es)	
Class	3
Label(s)	3
Hazard No. (ADR)	33
Tunnel restriction code	D/E
14.4. Packing group	II
14.5. Environmental hazards	No.
14.6. Special precautions for user	Not available.

IATA**FINISHED GOODS**

14.1. UN number	ID8000
14.2. UN proper shipping name	CONSUMER COMMODITY
14.3. Transport hazard class(es)	
Class	9

14.4. Packing group Not applicable.

14.5. Environmental hazards No.

ERG Code 9L

14.6. Special precautions
for user Not available.

Other information

Passenger and cargo
aircraft Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

BULK

14.1. UN number UN1266

14.2. UN proper shipping
name PERFUMERY PRODUCTS

14.3. Transport hazard class(es)

Class 3

14.4. Packing group II

14.5. Environmental hazards No.

ERG Code 3L

14.6. Special precautions
for user Not available.

Other information

Passenger and cargo
aircraft Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

IMDG

FINISHED GOODS

14.1. UN number UN1266

14.2. UN proper shipping
name PERFUMERY PRODUCTS, Limited Quantity

14.3. Transport hazard class(es)

Class 3

Label(s) Limited Quantity

14.4. Packing group II

14.5. Environmental hazards

Marine pollutant No.

EmS F-E, S-D

14.6. Special precautions
for user Not available.

LTD QTY Net Inner Capacity 5.0 L

BULK

14.1. UN number UN1266

14.2. UN proper shipping
name PERFUMERY PRODUCTS

14.3. Transport hazard class(es)

Class 3

14.4. Packing group II

14.5. Environmental hazards

Marine pollutant No.

EmS F-E, S-D

14.6. Special precautions
for user Not available.

14.7. Transport in bulk
according to Annex II of Marpol
and the IBC Code Not established.

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended
Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended
Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended
Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended
Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended
Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA
Not listed.

Authorizations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended
Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended
Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended
Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended
D-LIMONENE (CAS 5989-27-5)
ETHANOL (CAS 64-17-5)
HEXAMETHYLINDANOPYRAN (CAS 1222-05-5)

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

Not available.

References

Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

H225 Highly flammable liquid and vapor.
H226 Flammable liquid and vapor.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H400 Very toxic to aquatic life.
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.

Revision information

None.

Training information

Follow training instructions when handling this material.

Disclaimer

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.