

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

1.1. Product identifier

Mixture identification:

Trade name: FRAGRANCE DIFFUSER SALDALO BERGAMOTTO

Trade code: T77DDSB - 77_MD/DD/DI/REM/RE_SB

UFI: 6K80-K0CJ-9002-T29X

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

Consumer

Recommended use: Reed Diffuser

Uses advised against: Do not use for purposes different from those indicated.

1.3. Details of the supplier of the safety data sheet

Company: HOME FRAGRANCE ITALIA S.r.L.

Via del Commercio, 28

20881 - Bernareggio (MB) Italy

Ph. +39 039 9220979

Competent person responsible for the safety data sheet: regulatory@millefiorimilano.com

1.4. Emergency telephone number

Home Fragrance Italia srl:

Ph. +390399220979 - Language (IT/EN) - working hours 09:00-12:00 / 14:00-17:00

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

Flam. Liq. 2 Highly flammable liquid and vapour.

Eye Irrit. 2 Causes serious eye irritation.

Skin Sens. 1 May cause an allergic skin reaction.

Aquatic Chronic 3 Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

Hazard pictograms and Signal Word



Danger

Hazard statements

H225 Highly flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P273 Avoid release to the environment.

P302+P352 IF ON SKIN: Wash with plenty of 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.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

PACK2 The packing must have tactile indications of danger for blind people.

Contains

Coumarin
d-limonene
benzyl salicylate
3-p-cumenyl-2-methylpropionaldehyde
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one
linalool
Linalyl acetate
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one
UFI: 6K80-K0CJ-9002-T29X

Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

2.3. Other hazards

PBT, vPvB or endocrine disruptor substances present in concentration >= 0,1%:

Component	Ident. Numb.	Quantity	Material Properties
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylinden o[5,6-c]pyran; galaxolide; (HHCB)	CAS: 1222-05-5 - EINECS: 214-946-9 - Index: 603-212-00-7	≥0.1-<0.25 %	Endocrine disruptor

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: FRAGRANCE DIFFUSER SALDALO BERGAMOTTO

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number	Material Properties
≥80-<90 %	ethanol	CAS:64-17-5 EC:200-578-6 Index:603-002-00-5	Flam. Liq. 2, H225; Eye Irrit. 2, H319 Specific Concentration Limits: C ≥ 50%: Eye Irrit. 2 H319	01-2119457610-43-XXXX	
≥2.5-<3 %	Linalyl acetate	CAS:115-95-7 EC:204-116-4	Skin Irrit. 2, H315; Skin Sens. 1, H317		
≥1-<2.5 %	linalool	CAS:78-70-6 EC:201-134-4 Index:603-235-00-2	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317		
≥1-<2.5 %	2,6-dimethyloct-7-en-2-ol	CAS:18479-58-8 EC:242-362-4	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H336	01-2119457274-37-XXXX	
≥1-<2.5 %	Octahydro-2H-1-benzopyran-2-one	CAS:4430-31-3 EC:224-623-4	Eye Dam. 1, H318	01-2120746527-47-XXXX	
≥0.5-<1 %	Coumarin	CAS:91-64-5 EC:202-086-7	Acute Tox. 4, H302; Skin Sens. 1B, H317		

≥0.3-<0.5 %	3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	CAS:127-51-5 EC:204-846-3	Skin Sens. 1B, H317; Aquatic Chronic 2, H411	01-2120138569-45-XXXX	
≥0.3-<0.5 %	d-limonene	CAS:5989-27-5 EC:227-813-5 Index:601-096-00-2	Flam. Liq. 3, H226; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 3, H412, M-Acute:1		
≥0.25-<0.3 %	benzyl salicylate	CAS:118-58-1 EC:204-262-9 Index:607-754-00-5	Skin Sens. 1B, H317; Aquatic Chronic 3, H412	01-2119969442-31-XXXX	
≥0.1-<0.25 %	Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	CAS:4707-47-5 EC:225-193-0	Skin Sens. 1B, H317	01-2120762759-36-XXXX	
≥0.1-<0.25 %	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCb)	CAS:1222-05-5 EC:214-946-9 Index:603-212-00-7	Aquatic Acute 1, H400; Aquatic Chronic 1, H410		Endocrine disruptor
≥0.1-<0.25 %	3-p-cumenyl-2-methylpropionaldehyde	CAS:103-95-7 EC:203-161-7	Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 3, H412	01-2119970582-32-XXXX	
≥0.1-<0.25 %	1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	CAS:54464-57-2 EC:259-174-3	Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 1, H410, M-Chronic:1	01-2119489989-04-XXXX	
≥0.1-<0.25 %	Allyl (cyclohexyloxy)acetate	CAS:68901-15-5 EC:272-657-3	Acute Tox. 4, H302; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	01-2120770514-54-XXXX	
≥0.1-<0.25 %	1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	CAS:21145-77-7 EC:244-240-6	Acute Tox. 4, H302; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	01-2119539433-40-XXXX	

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

- Immediately take off all contaminated clothing.
- Remove contaminated clothing immediately and dispose off safely.
- After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.

In case of Ingestion:

- Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

- Remove casualty to fresh air and keep warm and at rest.

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

Eye irritation

Eye damages

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

- CO2 or Dry chemical fire extinguisher.

Extinguishing media which must not be used for safety reasons:

- None in particular.

5.2. Special hazards arising from the substance or mixture

- Do not inhale explosion and combustion gases.
- Burning produces heavy smoke.

5.3. Advice for firefighters

- Use suitable breathing apparatus .
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

- Wear personal protection equipment.
- Remove all sources of ignition.
- Remove persons to safety.
- See protective measures under point 7 and 8.

For emergency responders:

- Wear personal protection equipment.

6.2. Environmental precautions

- Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
- Retain contaminated washing water and dispose it.
- In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
- Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

- Suitable material for taking up: absorbing material, organic, sand
- Wash with plenty of water.

6.4. Reference to other sections

- See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Avoid contact with skin and eyes, inhalation of vapours and mists.
- Don't use empty container before they have been cleaned.
- Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
- See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

- Contaminated clothing should be changed before entering eating areas.
- Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

- Always keep in a well ventilated place.
- Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.
- Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Incompatible materials:

- None in particular.

Instructions as regards storage premises:

- Cool and adequately ventilated.

7.3. Specific end use(s)

- None in particular

Industrial sector specific solutions:

- None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

ethanol

CAS: 64-17-5	ACGIH	Short Term: 1000 ppm Notes: A3 - URT irr
	National AUSTRIA	Long Term: 1900 mg/m3 - 1000 ppm (8h); Short Term: Ceiling - 3800 mg/m3 - 2000 ppm Notes: 60(Mow), 3x, MAK Source: GKV, BGBl. II Nr. 156/2021
	National BELGIUM	Long Term: 1907 mg/m3 - 1000 ppm (8h) Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
	National BULGARIA	Long Term: 1000 mg/m3 (8h) Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.
	National CZECH REPUBLIC	Long Term: 1000 mg/m3 (8h); Short Term: Ceiling - 3000 mg/m3 - 0.522 ppm Source: Nařízení vlády č. 361-2007 Sb

National GERMANY	Long Term: 380 mg/m ³ - 200 ppm (8h) Notes: DFG, Y, 4(II) Source: TRGS 900
National DENMARK	Long Term: 1900 mg/m ³ - 1000 ppm (8h) Source: BEK nr 2203 af 29/11/2021
National SPAIN	Short Term: 1910 mg/m ³ - 1000 ppm Notes: s Source: LEP 2022
National ESTONIA	Long Term: 1000 mg/m ³ - 500 ppm (8h); Short Term: 1900 mg/m ³ - 1000 ppm Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105
National FINLAND	Long Term: 1900 mg/m ³ - 1000 ppm (8h); Short Term: 2500 mg/m ³ - 1300 ppm Source: HTP-ARVOT 2020
National FRANCE	Long Term: 1900 mg/m ³ - 1000 ppm (8h); Short Term: 9500 mg/m ³ - 5000 ppm Source: INRS outil65
National GREECE	Long Term: 1900 mg/m ³ - 1000 ppm (8h) Source: ΦΕΚ 94/Α` 13.5.1999
National CROATIA	Long Term: 1900 mg/m ³ - 1000 ppm (8h) Source: NN 1/2021
National HUNGARY	Long Term: 1900 mg/m ³ - 1000 ppm (8h); Short Term: 3800 mg/m ³ - 2000 ppm Notes: N Source: 5/2020. (II. 6.) ITM rendelet
National IRELAND	Short Term: 1000 ppm Source: 2021 Code of Practice
National LITHUANIA	Long Term: 1000 mg/m ³ - 500 ppm (8h); Short Term: 1900 mg/m ³ - 1000 ppm Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389
National LATVIA	Long Term: 1000 mg/m ³ (8h) Source: KN325P1
National NETHERLANDS	Long Term: 260 mg/m ³ - 137 ppm (8h); Short Term: 1900 mg/m ³ - 1000 ppm Notes: H Source: Arbeidsomstandighedenregeling - Lijst B2
National NORWAY	Long Term: 950 mg/m ³ - 500 ppm (8h) Source: FOR-2021-06-28-2248
National POLAND	Long Term: 1900 mg/m ³ (8h) Source: Dz.U. 2018 poz. 1286
National ROMANIA	Long Term: 1900 mg/m ³ - 1000 ppm (8h); Short Term: 9500 mg/m ³ - 5000 ppm Source: Republicarea 1 - nr. 743 din 29 iulie 2021
National SLOVAKIA	Long Term: 960 mg/m ³ - 500 ppm (8h); Short Term: 1920 mg/m ³ - 1000 ppm Source: 355 NARIADENIE VLÁDY z 10. mája 2006
National SLOVENIA	Long Term: 960 mg/m ³ - 500 ppm (8h); Short Term: 1920 mg/m ³ - 1000 ppm Notes: Y Source: UL št. 72, 11. 5. 2021
National SWEDEN	Long Term: 1000 mg/m ³ - 500 ppm (8h); Short Term: 1900 mg/m ³ - 1000 ppm Notes: V Source: AFS 2021:3

Predicted No Effect Concentration (PNEC) values

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

CAS: 54464-57-2 Exposure Route: Fresh Water; PNEC Limit: 0.0028 mg/l

Exposure Route: Marine water; PNEC Limit: 0.00028 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 3.73 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 0.75 mg/kg

Exposure Route: Soil (agricultural); PNEC Limit: 0.705 mg/kg

Derived No Effect Level (DNEL) values

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

CAS: 54464-57-2 Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Worker: 28.7 mg/kg; Consumer: 17.2 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker: 30 mg/m³; Consumer: 9 mg/m³

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 3 mg/kg

8.2. Exposure controls

Eye protection:

Not required for consumer use. For industrial or professional use: Eye glasses

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not required for consumer use. For industrial or professional use: Fist-gloves

Respiratory protection:

N.A.

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

Hygienic and Technical measures

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	colourless
Odour:	characteristic
pH:	6.00
Kinematic viscosity:	N.A.
Melting point/freezing point:	N.A.
Boiling point or initial boiling point and boiling range:	78 °C (172 °F) Ethanol
Flash point:	< 23°C
Lower and upper explosion limit:	N.A.
Relative vapour density:	N.A.
Vapour pressure:	N.A.
Density and/or relative density:	0.82 g/cm ³ calc
Solubility in water:	Soluble
Solubility in oil:	N.A.
Partition coefficient n-octanol/water (log value):	N.A.
Auto-ignition temperature:	363.00 °C Ethanol
Decomposition temperature:	N.A.
Flammability:	The product is classified Flam. Liq. 2
Volatile Organic compounds - VOCs =	80.61%; 656.96g/L
Particle characteristics:	
Particle size:	N.A.

9.2. Other information

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Data not available.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Toxicological Information of the Preparation**

a) acute toxicity	Not classified Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not classified Based on available data, the classification criteria are not met
c) serious eye damage/irritation	The product is classified: Eye Irrit. 2(H319)
d) respiratory or skin sensitisation	The product is classified: Skin Sens. 1(H317)
e) germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified Based on available data, the classification criteria are not met
h) STOT-single exposure	Not classified Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not classified Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

Linalyl acetate

CAS: 115-95-7	a) acute toxicity	LD50 Oral Rat = 14600 mg/kg LD50 Oral Rodent = 13360 mg/kg LD50 Skin Rabbit > 5000 mg/kg
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linalool

CAS: 78-70-6	a) acute toxicity	No Observed Adverse Effect Level Oral Rat = 497.9 mg/l 96 days No Observed Adverse Effect Level Skin Rat = 160 mg/l 28 days
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Coumarin

CAS: 91-64-5	a) acute toxicity	LD50 Oral = 500 mg/kg bw
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11.2. Information on other hazards**Endocrine disrupting properties:**

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB)

CAS: 1222-05-5 List II: Substances under evaluation for endocrine disruption under an EU legislation

SECTION 12: Ecological information**12.1. Toxicity**

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

Harmful to aquatic life with long lasting effects.

List of Eco-Toxicological properties of the product

The product is classified: Aquatic Chronic 3(H412)

List of Eco-Toxicological properties of the components

linalool

- CAS: 78-70-6 a) Aquatic acute toxicity: LC50 Fish = 27.8 mg/L 96h - OECD 203
a) Aquatic acute toxicity: EC50 Daphnia = 59 mg/L 48h - OECD TG 202
a) Aquatic acute toxicity: EC50 Algae = 156.7 mg/L 96h

2,6-dimethyloct-7-en-2-ol

- CAS: 18479-58-8 a) Aquatic acute toxicity: LC50 Fish > 4.81 mg/L 96h
a) Aquatic acute toxicity: EC50 Daphnia = 5.7 mg/L 48h
a) Aquatic acute toxicity: EC50 Algae = 3.88 mg/L 72h

Coumarin

- CAS: 91-64-5 a) Aquatic acute toxicity: LC50 Fish = 2.94 mg/L 96h
a) Aquatic acute toxicity: EC50 Daphnia > 24.3 mg/L 48h
a) Aquatic acute toxicity: EC50 Algae = 1.45 mg/L 72h

3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one

- CAS: 127-51-5 a) Aquatic acute toxicity: LC50 Fish = 10.9 mg/L 96h - OECD 203

d-limonene

- CAS: 5989-27-5 a) Aquatic acute toxicity: LC50 Fish Pimephales promelas = 0.72 mg/L 96h
a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 0.307 mg/L 48h
a) Aquatic acute toxicity: EC50 Algae Raphidocelis subcapitata = 0.32 mg/L 72h
a) Aquatic acute toxicity: EC10 Algae Raphidocelis subcapitata = 0.174 mg/L 72h
a) Aquatic acute toxicity: EC10 Fish Pimephales promelas < 0.67 mg/L 8d

Methyl 2,4-dihydroxy-3,6-dimethylbenzoate

- CAS: 4707-47-5 a) Aquatic acute toxicity: LC50 Fish = 5.2 mg/L 96h
a) Aquatic acute toxicity: EC50 Daphnia = 9.3 mg/L 48h

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCb)

- CAS: 1222-05-5 a) Aquatic acute toxicity: EC50 Algae Pseudokirchneriella subcapitata > 0.854 mg/L 72h
a) Aquatic acute toxicity: EC50 Daphnia = 0.9 mg/L 48h
b) Aquatic chronic toxicity: NOEC Algae Pseudokirchneriella subcapitata = 0.201 mg/L 72h
b) Aquatic chronic toxicity: NOEC Daphnia = 0.111 mg/L 21d

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

- CAS: 54464-57-2 a) Aquatic acute toxicity: LC50 Fish Lepomis macrochirus = 1.3 mg/L 96h - OECD TG 203
a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 1.38 mg/L 48h - OECD TG 202
a) Aquatic acute toxicity: EC50 Algae Desmodesmus subspicatus = 2.6 mg/L 72h - OECD TG201
b) Aquatic chronic toxicity: NOEC Fish = 0.16 mg/L
b) Aquatic chronic toxicity: NOEC Daphnia = 0.028 mg/L
b) Aquatic chronic toxicity: NOEC Algae = 2.6 mg/L

12.2. Persistence and degradability

linalool

CAS: 78-70-6 Readily biodegradable Duration: 28d; Value: = 64.2 %
Notes: OECD 301 D

2,6-dimethyloct-7-en-2-ol

CAS: 18479-58-8 Readily biodegradable Duration: 28d; Value: = 72.1 %
Notes: OECD 301B1

Coumarin

CAS: 91-64-5 Readily biodegradable Duration: 28d; Value: = 90 %
Notes: OECD TG 301 F

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCb)

CAS: 1222-05-5 Non-readily biodegradable Duration: 28d; Value: = 2 %

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

CAS: 54464-57-2 Non-readily biodegradable

12.3. Bioaccumulative potential

ethanol

CAS: 64-17-5

Test: Kow - Partition coefficient; Value: = -0.35

benzyl salicylate

CAS: 118-58-1 Bioaccumulative

Test: BCF - Bioconcentration factor; Value: = 311

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB)

CAS: 1222-05-5

Test: BCF - Bioconcentration factor; Value: = 1584

Test: Log Pow - partition coefficient; Value: = 5.3

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT or vPvB substances present in concentration $\geq 0.1\%$

12.6 Endocrine disrupting properties

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB)

CAS: 1222-05-5 List II: Substances under evaluation for endocrine disruption under an EU legislation

12.7 Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information



14.1. UN number or ID number

1266

14.2. UN proper shipping name

ADR-Shipping Name: PERFUMERY PRODUCTS with flammable solvents (vapour pressure at 50 °C more than 110 kPa)

IATA-Shipping Name: PERFUMERY PRODUCTS with flammable solvents

IMDG-Shipping Name: PERFUMERY PRODUCTS with flammable solvents

14.3. Transport hazard class(es)

ADR-Class: 3

IATA-Class: 3

IMDG-Class: 3

14.4. Packing group

ADR-Packing Group: II

IATA-Packing group: II

IMDG-Packing group: II

14.5. Environmental hazards

Toxic ingredients quantity: 0.00

Very toxic ingredients quantity: 0.00

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: F-E, S-D

14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: 3

ADR - Hazard identification number: 33

ADR-Special Provisions: 163 640C

ADR-Transport category (Tunnel restriction code): 2 (D/E)

Air (IATA):

IATA-Passenger Aircraft: 353

IATA-Cargo Aircraft: 364

IATA-Label: 3
IATA-Subsidiary hazards: -
IATA-Erg: 3L
IATA-Special Provisions: A3 A72

Sea (IMDG):

IMDG-Stowage and handling: Category B
IMDG-Segregation: -
IMDG-Subsidiary hazards: -
IMDG-Special Provisions: 163

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 CLP)

Regulation (EU) n. 2023/707

Regulation (EU) n. 2023/1434 (ATP 19 CLP)

Regulation (EU) n. 2023/1435 (ATP 20 CLP)

Regulation (EU) n. 2020/878

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3, 40

Restrictions related to the substances contained: 75

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: P5c 5000 50000

Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

German Water Hazard Class.

Class 3: extremely hazardous.

German Lagerklasse according to TRGS 510:

LGK 3

SVHC Substances:

No SVHC substances present in concentration $\geq 0.1\%$

Dir. 2010/75/EC (VOC directive)

Volatile Organic compounds - VOCs = 80.61 %

Volatile Organic compounds - VOCs = 656.96 g/L

Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC):

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Code	Description
H225	Highly flammable liquid and vapour.
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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
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.

Code	Hazard class and hazard category	Description
2.6/2	Flam. Liq. 2	Flammable liquid, Category 2
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
3.4.2/1B	Skin Sens. 1B	Skin Sensitisation, Category 1B
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1
4.1/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**Classification according to Regulation (EC) Nr. 1272/2008**

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Flam. Liq. 2, H225	On basis of test data
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 3, H412	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)
 BCF: Biological Concentration Factor
 BEI: Biological Exposure Index
 BOD: Biochemical Oxygen Demand
 CAS: Chemical Abstracts Service (division of the American Chemical Society).
 CAV: Poison Center
 CE: European Community
 CLP: Classification, Labeling, Packaging.
 CMR: Carcinogenic, Mutagenic and Reprotoxic
 COD: Chemical Oxygen Demand
 COV: Volatile Organic Compound
 CSA: Chemical Safety Assessment
 CSR: Chemical Safety Report
 DMEL: Derived Minimal Effect Level
 DNEL: Derived No Effect Level.
 DPD: Dangerous Preparations Directive
 DSD: Dangerous Substances Directive
 EC50: Half Maximal Effective Concentration
 ECHA: European Chemicals Agency
 EINECS: European Inventory of Existing Commercial Chemical Substances.
 ES: Exposure Scenario
 GefStoffVO: Ordinance on Hazardous Substances, Germany.
 GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
 IARC: International Agency for Research on Cancer
 IATA: International Air Transport Association.
 IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
 IC50: half maximal inhibitory concentration
 ICAO: International Civil Aviation Organization.
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
 IMDG: International Maritime Code for Dangerous Goods.
 INCI: International Nomenclature of Cosmetic Ingredients.
 IRCCS: Scientific Institute for Research, Hospitalization and Health Care
 KAFH: Keep Away From Heat
 KSt: Explosion coefficient.
 LC50: Lethal concentration, for 50 percent of test population.
 LD50: Lethal dose, for 50 percent of test population.
 LDLo: Leathal Dose Low
 N.A.: Not Applicable
 N/A: Not Applicable
 N/D: Not defined/ Not available
 NA: Not available
 NIOSH: National Institute for Occupational Safety and Health
 NOAEL: No Observed Adverse Effect Level
 OSHA: Occupational Safety and Health Administration
 PBT: Persistent, Bioaccumulative and Toxic
 PGK: Packaging Instruction
 PNEC: Predicted No Effect Concentration.
 PSG: Passengers
 RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
 STEL: Short Term Exposure limit.
 STOT: Specific Target Organ Toxicity.
 TLV: Threshold Limiting Value.
 TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
 vPvB: Very Persistent, Very Bioaccumulative.
 WGK: German Water Hazard Class.