

**Material Safety Data Sheet**

According to Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

**BAKUCHIOL**

**1. Identification of the substance/mixture and company**

Trade name: Bakuchiol  
 I.N.C.I. Bakuchiol  
 CAS No. : 10309-37-2  
 EC No. : 685-515-4  
 Utilization: Raw material for cosmetics  
 Supplier company identification: Elemental SRL, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania  
 Tel/Fax: +40259-436.755, www.ellemental.com  
 Emergency: RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București.  
 International emergency number: +49 180 2273-112

**2. Hazards Identification**

2.1 Classification of the substance or mixture  
 Regulation (EC) No. 1272/2008  
 Aquatic Acute 1; H400  
 Aquatic Chronic 1; H410  
 Full text of hazard statements: see SECTION 16.

2.2 Label elements

Regulation (EC) No. 1272/2008

Signal word: Warning

Pictograms:



Hazard statements: H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements: P391 Collect spillage. P273 Avoid release to the environment.

2.3 Other hazards

According to Regulation (EC) No 1907/2006 (REACH), this product is regarded to be neither PBT nor vPvB.

**3. Declaration of ingredients**

3.1. Substances

Hazardous components

| CAS No   | Chemical name   | Quantity |
|--|---|----------|
| EC No  | Index No  | REACH No |
| 10309-37-2   | 4-[(1E,3S)-3-ethenyl-3,7-dimethyl-1,6-octadien-1-yl]-phenol | > 99 %   |
| 685-515-4  | 01-2120113117-71-XXXX                                       |          |
| Aquatic Acute 1, Aquatic Chronic 1; H400 H410      |   |          |
| Full text of H and EUH statements: see section 16. |   |          |

Specific Conc. Limits, M-factors and ATE

| CAS No                    | EC No     | Chemical name   | Quantity |
|---------------------------|-----------|---|----------|
| 10309-37-2                | 685-515-4 | 4-[(1E,3S)-3-ethenyl-3,7-dimethyl-1,6-octadien-1-yl]-phenol | > 99 %   |
| oral: LD50 = > 2000 mg/kg |           |   |          |

3.2. Mixtures

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Not concerned

**4. First aid measures**

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## 4.1 Description of first aid measures

## General information

## After inhalation:

Move to fresh air in case of accidental inhalation of vapours or decomposition products. Supply fresh air, if required oxygen, consult a physician. In case of contact with skin wash off immediately with plenty of water. Consult a doctor if skin irritation persists.

## After contact with skin:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

## After contact with eyes:

Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical treatment by eye specialist.

## After ingestion :

Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Never give anything by mouth to an unconscious person. In the event of symptoms refer for medical treatment.

## 4.2 Most important symptoms/effects, acute and delayed

Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

May cause eye or skin irritation with susceptible persons

## 4.3 Indication of immediate medical attention and special treatment needed, if necessary

Treat symptoms.

**5. Fire fighting measures**

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## 5.1 Means of extinction

Suitable extinguishing media: Foam, carbon dioxide (CO<sub>2</sub>), dry chemical, water-spray.

Unsuitable extinguishing media: Full water jet

## 5.2 Special hazards arising from the substance or mixture

Fire may produce: carbon monoxide and carbon dioxide

## 5.3 Recommendations for fire-fighters

In case of fire, wear suitable respiratory equipment with positive air supply. Protective suit.

Cool containers at risk with water spray jet.

Do not release chemically contaminated water into drains, soil or surface waters. Sufficient measures must be taken to retain water used for extinguishing.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

**6. Accidental release measures**

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## 6.1 Personal precautions, protective equipment and emergency procedures

## General advice:

Ensure adequate ventilation, especially in confined areas.

Keep away sources of ignition.

Keep away noninvolved persons.

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For non-emergency personnel:  
Avoid contact with skin, eyes and clothing.  
Do not breathe vapours.  
For emergency responders:  
Use personal protective clothing.  
In case of vapour formation use respirator.

6.2 Environmental precautions  
Do not discharge into the drains/surface waters/ground water.

6.3 Methods and materials for containment and cleaning up  
For containment  
Prevent spread over a wide area (e.g. by containment or oil barriers).  
For cleaning up  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Shovel into suitable container for disposal.  
Other information  
Prevent spread over a wide area (e.g. by containment or oil barriers).  
Reference to other sections  
Observe protective instructions (see Sections 7 and 8). Information for disposal see section 13.

**7. Handling and storage**

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7.1 Precautions for safe handling  
Precautions for safe handling  
Advice on safe handling  
Ensure adequate ventilation, especially in confined areas. Keep container tightly closed.  
Handle and open container with care. Avoid contact with skin, eyes and clothing.  
Advice on protection against fire and explosion  
No special protective measures against fire required.

7.2 Conditions for safe storage, including any incompatibilities  
Requirements for storage rooms and vessels  
Keep container tightly closed in a dry, cool and well-ventilated place. Protect from heat and direct solar radiation.  
Recommended storage temperature: 2 - 8°C. Brief exposure up to 35°C for max. 2 weeks.  
Hints on joint storage  
Incompatible with oxidizing agents.  
Further information on storage conditions  
Keep away from food, drink and animal feeding stuffs.

7.3 Specific end use(s)  
Raw material for: Cosmetics industry

**8. Exposure controls / personal protection**

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8.1 Control parameters  
Additional advice on limit values  
This product does not contain any substances for which a Workplace Exposure Limit has been set in concentrations above the limits.

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**BAKUCHIOL****8.2 Exposure controls**

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing.

When using do not eat, drink or smoke.

Remove and wash contaminated clothes before re-use.

Eye/face protection

Tightly fitting goggles (EN 166).

Hand protection

Protective gloves resistant to chemicals made off nitrile, Minimum coat thickness 0.11 mm, Permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Dermatril L 741> made by www.kcl.de. This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Skin protection

Long sleeved clothing (DIN EN ISO 6530)

Respiratory protection

No personal respiratory protective equipment normally required.

**9. Physical and chemical properties**

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**9.1 Information on physical and chemical properties**

Appearance: oily fluid

Color: brown yellow

Odor: mild, characteristic

pH-Value (at 20 °C): n.d.

Boiling point: &gt;250 °C

Flash point: &gt; 180 °C

Density (at 20 °C): 0,90-0,97 g/cm<sup>3</sup>

Flammability

Solid/liquid: n.d.

Explosive properties

The product is not explosive.

Lower explosion limits: Upper explosion limits: n.d.

Auto-ignition temperature: n.d.

Self-ignition temperature

Solid: The product is not self-igniting

Gas: n.d.

Decomposition temperature: n.d.

Oxidizing properties

Not oxidising.

Vapour pressure (at 25 °C): n.d.

Bulk density: n.a.

Water solubility (at 20 °C): Insoluble

Solubility in other solvents: n.d.

Partition coefficient n-octanol/water: Viscosity / dynamic: n.d

Viscosity / kinematic: n.d.

Flow time: n.d.

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Relative vapour density: n.d.

Evaporation rate: n.d.

**9.2 Other information**

No data available

**10. Stability and reactivity**

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**10.1 Reactivity**

No decomposition if stored and applied as directed.

**10.2 Chemical stability**

Stable under normal conditions

**10.3 Possibility of hazardous reactions**

Reactions with oxidizing agents

**10.4 Conditions to avoid**

To avoid thermal decomposition, do not overheat

**10.5 Incompatible materials**

Strong oxidizing agents

**10.6 Hazardous decomposition products**

No known hazardous decomposition products. Fire may produce:

Carbon monoxide and carbon dioxide

**11. Toxicological information**

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**11.1 Information on hazard classes as defined in Regulation (EC) No. 1272/2008****Acute toxicity**

Based on available data, the classification criteria are not met.

LD50/oral/rat: &gt; 2000 mg/kg [OECD 423]

**Irritation and corrosivity**

Based on available data, the classification criteria are not met.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**11.2 Information on other hazards Endocrine disrupting properties**

No data available

**12. Ecological information**

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**12.1 Toxicity**

Toxicity to fish: no data available

Toxicity to daphnia EC50/Daphnia magna/48 h = 0,2 mg/l [OECD 202]

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Toxicity to microorganisms: no data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

12.6 Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7 Other adverse effects

Hazardous water pollutant.

Further information

Do not flush into surface water or sanitary sewer system

**13. Disposal considerations**

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13.1 Disposal methods

Disposal recommendations

Can be incinerated, when in compliance with local regulations. Where possible recycling is preferred to disposal.

List of Wastes Code - residues/unused products

070601 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; aqueous washing liquids and mother liquors; hazardous waste

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

**14. Transport information**

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14.1 UN number

UN 3082

14.2 UN shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4-[(1E,3S)-3-ethenyl-3,7-dimethyl-1,6-octadien-1-yl]-phenol)

14.3 Transport hazard class(es): 9

14.4 Packing group: III

Classification code: M6

Special Provisions: 274 335 375 601

Limited quantity: 5 L / 30 kg

Excepted quantity: E1

Transport category: 3

Hazard No: 90

Tunnel restriction code: -

14.5 Environmental hazards

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Environmentally hazardous: Yes



Other applicable information (land transport)

Special provision 375: Product in packaging (inner packaging, single packaging) up to 5 L is not subject to the provisions of ADR/RID.

Other applicable information (inland waterways transport)

Special provision 375: Product in packaging (inner packaging, single packaging) up to 5 L is not subject to the provisions of ADN.

Other applicable information (marine transport)

Subsection 2.10.2.7 IMDG Code: Product in packaging (inner packaging, single packaging) up to 5 L is not subject to the provisions of MDG Code.

Other applicable information (air transport)

Special provision A197: Product in packaging (inner packaging, single packaging) up to 5 L is not subject to the provisions of IATA/DGR.

**14.6 Special precautions for users**

Take the usual precautions when handling with chemicals

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code**

The transport takes place only in approved and appropriate packaging.

**15. Regulatory information**

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**15.1 Regulations and legislation on health, safety and environment specific to the substance or mixture**

Restrictions on use (REACH, annex XVII): Entry 3

Directive 2004/42/EC on VOC in paints and varnishes: 0%

Information according to Directive 2012/18/EU (SEVESO III): E1 Hazardous to the Aquatic Environment

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

**15.2 Chemical safety assessment: For this substance a chemical safety assessment has not been carried out.****16. Additional information**

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**16.1 Relevant H and EUH statements (number and full text)**

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects

**16.2 Abbreviations:**

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Test-ing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regula-tion (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 - Emergen-cy Schedule; ENCS - Existing and New Chemical Substances

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(Japan); ErCx - Concentration as-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; INCI: International Nomenclature of Cosmetic Ingredients; ISHL - Industrial 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; PNEC: Predicted No Effect Concentration; 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; SVHC - Substance of Very High Concern; STE: Short-term exposure; STEL: Short Term Exposure limit; STOT: Specific Target Organ Toxicity; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

**DECLARATION OF ALLERGENS**

**COMPLIANCE OF REGULATION (EC) NO 2023/1545**

| Substance/compound name       | INCI name                        | CAS No              | Max % |
|-------------------------------|----------------------------------|---------------------|-------|
| 3-Propylideneephthalide       | 3-Propylideneephthalide          | 17369-59-4          | -     |
| Alpha/Beta-Pinene             | Pinene                           | 80-56-8 / 127-91-3  | -     |
| Alpha-isomethyl ionone        | Alpha-Isomethyl Ionone           | 127-51-5            | -     |
| Alpha-Terpinene               | Alpha-Terpinene                  | 99-86-5             | -     |
| Acetyl cedrene                | Acetyl Cedrene                   | 32388-55-9          | -     |
| Amyl cinnamal                 | Amyl Cinnamal                    | 122-40-7            | -     |
| Amyl Salicylate               | Amyl Salicylate                  | 2050-08-0           | -     |
| Amylcinnamyl alcohol          | Amylcinnamyl Alcohol             | 101-85-9            | -     |
| Anethole                      | Anethole                         | 104-46-1            | -     |
| Anise alcohol                 | Anise Alcohol                    | 105-13-5            | -     |
| Balsam of Peru                | Myroxylon Pereirae (Oil/Extract) | 8007-00-9           | -     |
| Beta-Caryophyllene            | Beta-Caryophyllene               | 87-44-5             | -     |
| Benzaldehyde                  | Benzaldehyde                     | 100-52-7            | -     |
| Benzyl alcohol                | Benzyl Alcohol                   | 100-51-6            | -     |
| Benzyl benzoate               | Benzyl Benzoate                  | 120-51-4            | -     |
| Benzyl cinnamate              | Benzyl Cinnamate                 | 103-41-3            | -     |
| Benzyl salicylate             | Benzyl Salicylate                | 118-58-1            | -     |
| Camphor                       | Camphor                          | 76-22-2             | -     |
| Cananga Odorata (Oil/Extract) | Cananga Odorata (Oil/Extract)    | multiple CAS        | -     |
| Carvone                       | Carvone                          | 99-49-0 / 6485-40-1 | -     |

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|                                    |                                    |                        |   |
|------------------------------------|------------------------------------|------------------------|---|
| Cedrus Atlantica (Oil/Extract)     | Cedrus Atlantica (Oil/Extract)     | 92201-55-3 / 8023-85-6 | - |
| Cinnamaldehyde                     | Cinnamal                           | 104-55-2               | - |
| Cinnamomum Cassia Leaf Oil         | Cinnamomum Cassia Leaf Oil         | multiple CAS           | - |
| Cinnamomum Zeylanicum Bark Oil     | Cinnamomum Zeylanicum Bark Oil     | multiple CAS           | - |
| Cinnamyl alcohol                   | Cinnamyl Alcohol                   | 104-54-1               | - |
| Citral                             | Citral                             | 5392-40-5              | - |
| Citronellol                        | Citronellol                        | 106-22-9               | - |
| Citrus Aurantium Bergamia Peel Oil | Citrus Aurantium Bergamia Peel Oil | multiple CAS           | - |
| Citrus Aurantium Flower Oil        | Citrus Aurantium Flower Oil        | multiple CAS           | - |
| Citrus Aurantium Peel Oil          | Citrus Aurantium Peel Oil          | multiple CAS           | - |
| Citrus Limon Peel Oil              | Citrus Limon Peel Oil              | multiple CAS           | - |
| Coumarin                           | Coumarin                           | 91-64-5                | - |
| Dimethyl Phenethyl Acetate         | Dimethyl Phenethyl Acetate         | multiple CAS           | - |
| Eucalyptus Globulus Oil            | Eucalyptus Globulus Oil            | multiple CAS           | - |
| Eugenia Caryophyllus Oil           | Eugenia Caryophyllus Oil           | multiple CAS           | - |
| Eugenol                            | Eugenol                            | 97-53-0                | - |
| Eugenyl acetate                    | Eugenyl Acetate                    | 93-28-7                | - |
| Exaltolide                         | Hexadecanolactone                  | 106-02-5               | - |
| Farnesol                           | Farnesol                           | 4602-84-0              | - |
| Galaxolide                         | Hexamethylindanopyran              | 1222-05-5              | - |
| Geraniol                           | Geraniol                           | 106-24-1               | - |
| Geranyl acetate                    | Geranyl Acetate                    | 105-87-3               | - |
| Hexyl cinnamal                     | Hexyl Cinnamal                     | 101-86-0               | - |
| Hydroxycitronellal                 | Hydroxycitronellal                 | 107-75-5               | - |
| Isoeugenol                         | Isoeugenol                         | 97-54-1                | - |
| Isoeugenyl acetate                 | Isoeugenyl Acetate                 | 93-29-8                | - |
| Jasmine (Oil/Extract)              | Jasmine (Oil/Extract)              | multiple CAS           | - |
| Juniperus Virginiana Oil           | Juniperus Virginiana Oil           | multiple CAS           | - |
| Laurus Nobilis Leaf Oil            | Laurus Nobilis Leaf Oil            | multiple CAS           | - |
| Lavandula (Oil/Extract)            | Lavandula (Oil/Extract)            | multiple CAS           | - |
| Lemongrass Oil                     | Lemongrass Oil                     | multiple CAS           | - |
| Limonene                           | Limonene                           | 5989-27-5              | - |
| Linalool                           | Linalool                           | 78-70-6                | - |
| Linalyl acetate                    | Linalyl Acetate                    | 115-95-7               | - |
| Lippia Citriodora Absolute         | Lippia Citriodora Absolute         | multiple CAS           | - |
| Mentha Piperita Oil                | Mentha Piperita Oil                | multiple CAS           | - |
| Mentha Viridis (Leaf) Oil          | Mentha Viridis (Leaf) Oil          | multiple CAS           | - |
| Menthol                            | Menthol                            | 89-78-1                | - |
| Methyl heptine carbonate           | Methyl 2-Octynoate                 | 111-12-6               | - |
| Narcissus Extract                  | Narcissus Extract                  | multiple CAS           | - |
| Oakmoss extract                    | Evernia Prunastri Extract          | 90028-68-5             | - |
| Pelargonium Graveolens Flower Oil  | Pelargonium Graveolens Flower Oil  | multiple CAS           | - |

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|  |  |                         |   |
|--|--|-------------------------|---|
| Pinus Mugo (Oil/Extract)                 | Pinus Mugo (Oil/Extract)                 | multiple CAS            | - |
| Pinus Pumila (Oil/Extract)               | Pinus Pumila (Oil/Extract)               | multiple CAS            | - |
| Pogostemon Cablin Oil                    | Pogostemon Cablin Oil                    | multiple CAS            | - |
| Rose Flower (Oil/Extract)                | Rose Flower (Oil/Extract)                | multiple CAS            | - |
| Rose Ketones                             | Rose Ketones                             | multiple CAS            | - |
| Salicylaldehyde                          | Salicylaldehyde                          | 90-02-8                 | - |
| Santalol                                 | Santalol                                 | multiple CAS            | - |
| Santalum Album Oil                       | Santalum Album Oil                       | multiple CAS            | - |
| Sclareol                                 | Sclareol                                 | multiple CAS            | - |
| Terpineol                                | Terpineol                                | 98-55-5                 | - |
| Terpinolene                              | Terpinolene                              | 586-62-9                | - |
| Tonalide / AHTN                          | Tetramethyl acetyloctahydro-naphthalenes | 54464-57-2 / 68155-66-8 | - |
| Treemoss extract                         | Evernia Furfuracea Extract               | 90028-67-4              | - |
| Trimethylbenzenepropanol                 | Trimethylbenzenepropanol                 | multiple CAS            | - |
| Trimethylcyclopentenyl Methylisopentenol | Trimethylcyclopentenyl Methylisopentenol | multiple CAS            | - |
| Turpentine oil                           | Turpentine                               | 8006-64-2               | - |
| Vanillin                                 | Vanillin                                 | 121-33-5                | - |
| Wintergreen oil / Methyl salicylate      | Methyl Salicylate                        | 119-36-8                | - |

**Disclaimer:**

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.