1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY
1.1 Product identifier
Trade Name: Chamomile roman
Botanical Name: Anthemis nobilis
INCI: Anthemis nobilis Flower Oil
CAS TSCA-No: 8015-92-7
CAS EINECS-No: 84649-86-5
EINECS-No.: 283-467-5
FEMA-No.: 2275

1.2 Relevant identified uses of the substance and uses advised against
Substance use: Perfumery and/or aromatic uses

1.3 Details of the supplier of the safety data sheet
Supplier name: AYUS GmbH
Address: Am Dreschoschopf 1, 77815 Bühl, Deutschland
Phone: +49 7227 600 99-0
Fax: +49 7227 600 99-99
E-mail: info@ayus.team

1.4 Emergency telephone number
Poison emergency number: +49 89-19240

2. HAZARDS IDENTIFICATION
2.1 Classification of the substance according to regulation (EG) 1272/2008 (CLP)

<table>
<thead>
<tr>
<th>Hazard class and Hazard category</th>
<th>Code</th>
<th>Hazard statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable liquids, category 3</td>
<td>H226</td>
<td>Flammable liquid and vapour.</td>
</tr>
<tr>
<td>Skin corrosion/irritation, category 2</td>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Respiratory/skin sensitisation, skin sensitisation category 1</td>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>Causes serious eye damage/irritation, category 2</td>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Hazardous to the aquatic environment, chronic category 2</td>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>

2.2 Label elements
Hazard pictogram and signal word

WARNING:
H-Statements:
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

P-Statements:
Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical /ventilating /lighting equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust /fume /gas /mist /vapours /spray.
P262 Do not get in eyes, on skin, or on clothing.
P264 Wash thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

Response:
P302+P352 IF ON SKIN: Wash with plenty of soap and 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.
P321 Specific treatment (see on this label).
P332+P313 If skin irritation occurs: Get medical advice /attention.
P333+P313 If skin irritation or rash occurs: Get medical advice /attention.
P337+P313 If eye irritation persists: Get medical advice /attention.
P362 Take off contaminated clothing and wash before reuse.
P363 Wash contaminated clothing before reuse.
P370+P378 In case of fire: Use CO2 for extinction.
P391 Collect spillage.

Storage:
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.

Disposal:
P501 Dispose of contents/container in accordance with local regulation.

2.3 Other Hazards
Allergens (according to regulation (EC) No 1223/2009 on cosmetic products)

<table>
<thead>
<tr>
<th>Allergens</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limonene</td>
<td>0,1 - 4 %</td>
</tr>
<tr>
<td>Geraniol</td>
<td>&lt; 0,1 %</td>
</tr>
<tr>
<td>Citronellol</td>
<td>&lt; 0,1 %</td>
</tr>
<tr>
<td>Linalool</td>
<td>&lt; 0,2 %</td>
</tr>
<tr>
<td>Eugenol</td>
<td>&lt; 0,2 %</td>
</tr>
</tbody>
</table>

3. COMPOSITION / INFORMATION ON INGREDIENTS
3.1 Substances
Chemical Identification: Anthemis nobilis oil (100% natural essential oil)

Hazardous constituent: according to EG-Regulation 1272/2008 (CLP)

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Concentration</th>
<th>Registration-N.</th>
<th>CLP-Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-methylbutyl Angelate</td>
<td>3 - 7 %</td>
<td>CAS-No: 61692-77-1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EINECS-No: 262-900-1</td>
<td></td>
</tr>
<tr>
<td>Substance</td>
<td>Concentration</td>
<td>CAS-No</td>
<td>EINECS-No</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>---------------</td>
<td>--------</td>
<td>-----------</td>
</tr>
<tr>
<td>2-methylbutyl Methacrylate</td>
<td>0,5 - 1,5 %</td>
<td>60608-94-8</td>
<td>262-324-0</td>
</tr>
<tr>
<td>alpha-Pinene</td>
<td>1 - 10 %</td>
<td>100-52-7</td>
<td>202-860-4</td>
</tr>
<tr>
<td>Benzaldehyde</td>
<td>&lt; 1,5 %</td>
<td>127-91-3</td>
<td>204-872-5</td>
</tr>
<tr>
<td>beta-Pinene</td>
<td>&lt; 1 %</td>
<td>79-92-5</td>
<td>201-234-8</td>
</tr>
<tr>
<td>Camphene</td>
<td>&lt; 1 %</td>
<td>106-22-9</td>
<td>203-375-0</td>
</tr>
<tr>
<td>Citronellol</td>
<td>&lt; 0,1 %</td>
<td>97-53-0</td>
<td>202-589-1</td>
</tr>
<tr>
<td>Eugenol</td>
<td>&lt; 0,2 %</td>
<td>106-24-1</td>
<td>203-377-1</td>
</tr>
<tr>
<td>Geraniol</td>
<td>&lt; 0,1 %</td>
<td>7779-81-9</td>
<td>231-941-7</td>
</tr>
<tr>
<td>Isoamyl Angelate</td>
<td>12 - 22 %</td>
<td>10482-55-0</td>
<td>233-985-2</td>
</tr>
<tr>
<td>Isoamyl Isobutyrte</td>
<td>2,5 - 5 %</td>
<td>2050-01-3</td>
<td>218-078-1</td>
</tr>
<tr>
<td>Isoamyl Methacrylate</td>
<td>0,5 - 3 %</td>
<td>7336-27-8</td>
<td>230-849-4</td>
</tr>
<tr>
<td>Isobutyl Angelate</td>
<td>2 - 38 %</td>
<td>7779-81-9</td>
<td>231-941-7</td>
</tr>
<tr>
<td>Isobutyl Isobutyrte</td>
<td>2 - 9 %</td>
<td>97-85-8</td>
<td>202-612-5</td>
</tr>
<tr>
<td>Isobutyl Methacrylate</td>
<td>&lt; 3 %</td>
<td>97-86-9</td>
<td>202-613-0</td>
</tr>
<tr>
<td>Isovaleric acid</td>
<td>&lt; 3 %</td>
<td>503-74-2</td>
<td>207-975-3</td>
</tr>
<tr>
<td>Limonene</td>
<td>0,1 - 4 %</td>
<td>138-86-3</td>
<td>205-341-0</td>
</tr>
<tr>
<td>Linalool</td>
<td>&lt; 0,2 %</td>
<td>78-70-6</td>
<td>201-134-4</td>
</tr>
<tr>
<td>Methyl chavicol (Estragole)</td>
<td>&lt; 0,9 %</td>
<td>140-67-0</td>
<td>205-427-8</td>
</tr>
<tr>
<td>Methylallyl angelate</td>
<td>6 - 16 %</td>
<td>61692-78-2</td>
<td>262-901-7</td>
</tr>
</tbody>
</table>


## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

**Excessive inhalation:** Remove to fresh air environment – summon a physician immediately.

**Skin contact:** Wash contaminated skin with copious amounts of water and soap. Remove contaminated clothes and wash them before reuse. Summon a physician, if an irritation appears.

**Eye contact:** Wash contaminated skin with copious amounts of water for at least 10 minutes – open eyelids forcibly. Summon a physician immediately.

**Ingestion:** Dilute with water. Do not induce vomiting. Contact physician.

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

No further details.

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

Contact a poison specialist immediately if large quantities have been ingested or inhaled.

## 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

**Advised extinguisher:** Use CO₂, dry powder, fire extinguisher or foam.

**Unadvisable extinguisher:** Direct jet of water.

### 5.2 Special hazards arising from the substance or mixture

Avoid breathing vapours and smokes produced by fire. Burning will cause strong smoke and soot. Vapors may form explosive mixtures with air. Containers may explode with the heat of fire.

### 5.3 Advice for firefighters

Do not attempt to fight the fire with water, which tends to feed rather than smother the flames. Essential oils have the ability to float on water and this causes the fire to propagate more quickly. Small fires can be smothered by covering with earth, sand or a blanket.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid skin, eye and clothes contact. There is a risk of sliding caused by the leaked product. Ventilate well spilling area. Keep away from sources of ignition.

### 6.2 Environmental precautions

Avoid dispose into drainage, sewer system or in any natural environment. Dispose binding material, cloths and sponges according to the national law.

### 6.3 Methods and material for containment and cleaning up

Use of absorbent material (e.g. sand, diatomaceous earth).

### 6.4 Reference to other sections

Please see section 8 and 13.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Ventilate the storage and preparation warehouse/laboratory. Avoid eating, drinking and smoking in the places where products are stored and treated. Manipulate with caution to avoid any projection particularly in eyes and on mucous membranes. Do not expose vapors to the flame or quite other source of ignition. Do not inhale warm vapors.

### 7.2 Conditions for safe storage, including any incompatibilities
It is recommended to keep the product in a water-tight and air-tight container. Keep away from heat and sunlight. Store in a cool and good ventilated area.

7.3 Specific end uses
No specific.

8.  EXPOSURE CONTROLS / PERSONAL PROTECTION
8.1. Control parameters
Please pay attention to the usual precautionary measures with the contact of essential oils. Use good hygiene practice: Please wash before contact, before eating and at the end of the working day.

8.2 Exposure controls
Personal protective equipment:
Breathing protection: Use in well aired areas.
Eye protection: Safety glasses.
Hand protection: Protecting gloves.
Skin protection: Avoid skin contact. Protective suit should be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES
9.1 Information on basic physical and chemical properties
Color: colorless to greenish yellow
Appearance: oily liquid
Odor: characteristic, fruity
pH-value: 6
Flash point: 52°C
Water solubility: Insoluble
Steam pressure: Unavailable
Initial boiling point and boiling range: Unavailable
Relative density at 20 °C: 0.88 - 0.92
Refractive index at 20°C: 1.437 - 1.447
Optical rotation at 20°C: -2.5° to +6°

9.2 Other information:
Main components: Anthemis nobilis Flower Oil, Citronellol, Eugenol, Geraniol, Limonene, Linalool

10. STABILITY AND REACTIVITY
10.1 Reactivity
This product is stable under normal usage conditions.

10.2. Chemical stability
This product is stable under normal usage conditions.

10.3 Possibility of hazardous reactions
None according to our knowledge.

10.4 Conditions to avoid
Do not expose to high temperature or ignition.

10.5 Incompatible materials
Avoid flammable materials, PVC.

10.6 Hazardous decompositions products
Nothing in proper storage conditions.

11. TOXICOLOGICAL INFORMATION
11.1 Information on toxicological effects
Toxicological specifications of the important substances:
<table>
<thead>
<tr>
<th>Compound</th>
<th>Rat (mg/kg)</th>
<th>Rabbit (mg/kg)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-methylbutyl Angelate</td>
<td>/</td>
<td>/</td>
<td>/</td>
</tr>
<tr>
<td>2-methylbutyl Methacrylate</td>
<td>/</td>
<td>/</td>
<td>/</td>
</tr>
<tr>
<td>alpha-Pinene</td>
<td>3.700</td>
<td>&gt; 5.000</td>
<td>(rabbit)</td>
</tr>
<tr>
<td>Benzaldehyde</td>
<td>1.300</td>
<td>/</td>
<td>/</td>
</tr>
<tr>
<td>beta-Pinene</td>
<td>4.700</td>
<td>/</td>
<td>/</td>
</tr>
<tr>
<td>Camphene</td>
<td>5.000</td>
<td>&gt; 2.500</td>
<td>(rabbit)</td>
</tr>
<tr>
<td>Citronellol</td>
<td>3.450</td>
<td>2.650</td>
<td>(rabbit)</td>
</tr>
<tr>
<td>Eugenol</td>
<td>1.930</td>
<td>/</td>
<td>/</td>
</tr>
<tr>
<td>Geraniol</td>
<td>3.600</td>
<td>&gt; 5.000</td>
<td>(rabbit)</td>
</tr>
<tr>
<td>Isoamyl angelate</td>
<td>/</td>
<td>/</td>
<td>/</td>
</tr>
<tr>
<td>Isoamyl isobutyrate</td>
<td>/</td>
<td>/</td>
<td>/</td>
</tr>
<tr>
<td>Isoamyl methacrylate</td>
<td>/</td>
<td>/</td>
<td>/</td>
</tr>
<tr>
<td>Isobutyl Angelate</td>
<td>/</td>
<td>/</td>
<td>/</td>
</tr>
<tr>
<td>Isobutyl isobutyrate</td>
<td>12.800</td>
<td>8.600</td>
<td>(rabbit)</td>
</tr>
<tr>
<td>Isobutyl methacrylate</td>
<td>9.590</td>
<td>&gt; 17.760</td>
<td>(Guinea pig)</td>
</tr>
<tr>
<td>Isovaleric acid</td>
<td>/</td>
<td>/</td>
<td>/</td>
</tr>
<tr>
<td>Limonene</td>
<td>5.300</td>
<td>/</td>
<td>/</td>
</tr>
<tr>
<td>Linalool</td>
<td>2.790</td>
<td>5.610</td>
<td>(rabbit)</td>
</tr>
<tr>
<td>Methyl chavicol (Estragole)</td>
<td>1.230</td>
<td>&gt; 5.000</td>
<td>(rabbit)</td>
</tr>
<tr>
<td>Methylallyl angelate</td>
<td>/</td>
<td>/</td>
<td>/</td>
</tr>
<tr>
<td>Pinocarvone</td>
<td>/</td>
<td>/</td>
<td>/</td>
</tr>
<tr>
<td>trans-Pinocarveol</td>
<td>/</td>
<td>/</td>
<td>/</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation:**
H315 Causes skin irritation.

**Serious eye damage/irritation:**
H319 Causes serious eye irritation.

**Respiratory or skin sensitization:**
H317 May cause an allergic skin reaction.

**Aspiration hazard:**
No significant effects or critical hazards.

**Germ cell mutagenicity:**
No significant effects or critical hazards.

**Carcinogenicity:**
No significant effects or critical hazards.

**Reproductive toxicity:**
No significant effects or critical hazards.

**STOT-single exposure**
Unavailable data.

**STOT-repeated exposure**
Unavailable data.

**Information on likely routes of exposure**
Unavailable data.

**Symptoms related to the physical, chemical and toxicological characteristics**
Unavailable data.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**
Unavailable data.
12. ECOLOGICAL INFORMATION

12.1 Toxicity
Use product only referred of good laboratory practice (GLP) to insure that it is not released into the environment. According to regulation 1272/2008:

H411 Toxic to aquatic life with long lasting effects.

Daphnies toxicity (EC50):
No further relevant information available.

12.2 Persistence and degradability
No further relevant information available.

12.3 Bioaccumulative potential
Bioconcentration factor (BCF):
No further relevant information available.

Partition coefficient n-octanol / water (log KO/W)
No further relevant information available.

12.4 Mobility in soil
No further relevant information available.

12.5 Results of PBT and vPvB assessment
No further relevant information available.

12.6 Other adverse effects
No further relevant information available.

13. DISPOSAL CONSIDERATION

13.1 Waste treatment methods
Waste should be recycled or disposed of according to the legislation in force, preferably by an approved recycling or waste treatment company.

14. TRANSPORT INFORMATION

14.1 UN-number
1266

14.2 UN proper shipping name
Land transport: ADR/RID; PERFUMERY PRODUCTS with flammable solvents
Transport by sea: IMDG/IMO; PERFUMERY PRODUCTS with flammable solvents
Transport by air: ICAO/IATA; PERFUMERY PRODUCTS with flammable solvents

14.3 Transport hazard class
ADR/RID: Class 3
IMDG/IMO: Class 3
ICAO/IATA: Class 3

14.4 Packing group
ADR/RID: Packing group III
IMDG/IMO: Packing group III
ICAO/IATA: Packing group III

14.5 Environmental hazards
IMDG - Sea pollutant: Yes

14.6 Special precautions for user
Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code
Not applicable.

15. REGULATORY INFORMATION
15.1 Safety, health and environmental regulations (legislation) specific for the substance or mixture
Directive 2003/15/EC
Directive 2006/8/EC
Directive 91/322/EEC
Directive 2000/39/EC
Regulation (EC) No 1907/2006 (REACH) and its subsequent amendments
Regulation (EC) No 1272/2008 (CLP)
Regulation (EC) No 790/2009
Directive 2003/105/EC - Protection of workers - Control of major-accident hazards involving dangerous substances and its subsequent amendments
German Regulation on Substances Hazardous to Water 2005 (VwVwS),

15.2 Chemical safety assessment
Not relevant.

16. OTHER INFORMATION
Latest changes
This data sheet replaces all previous editions. The content of the SDS is regulated by the Regulation (EC) n°1907/2006 (REACH).

Common shortened form:
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS: Chemical Abstracts Service (division of the American Chemical Society)
CLP: Classification, Labeling, Packaging
EINECS: European Inventory of Existing Commercial Chemical Substances
FEMA: Federal Emergency Management Agency
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
IATA: Dangerous Goods Regulation by the "International Air Transport Association" (IATA)
ICAO: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
IMDG: International Maritime Code for Dangerous Goods
IMO: International Maritime Organization
INCI: International Nomenclature of Cosmetic Ingredients
LC50: Lethal Concentration for 50 percent of the test population
LD50: Lethal Dose for 50 percent of the test population
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
PBT: Persistent Bioaccumulating Toxicants
vPvB: Very Persistent and Very Bioaccumulative Substance
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail
STOT: Specific Target Organ Toxicity
TSCA: Toxic Substances Control Act

Hazard statements according to regulation (EC) 1272/2008 (CLP):

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H226</td>
<td>Flammable liquid and vapour.</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>
Precaution statements according to regulation (EC) 1272/2008 (CLP):

**Prevention:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P210</td>
<td>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</td>
</tr>
<tr>
<td>P233</td>
<td>Keep container tightly closed.</td>
</tr>
<tr>
<td>P240</td>
<td>Ground/bond container and receiving equipment.</td>
</tr>
<tr>
<td>P241</td>
<td>Use explosion-proof electrical /ventilating /lighting equipment.</td>
</tr>
<tr>
<td>P242</td>
<td>Use only non-sparking tools.</td>
</tr>
<tr>
<td>P243</td>
<td>Take precautionary measures against static discharge.</td>
</tr>
<tr>
<td>P261</td>
<td>Avoid breathing dust /fume /gas /mist /vapours /spray.</td>
</tr>
<tr>
<td>P262</td>
<td>Do not get in eyes, on skin, or on clothing.</td>
</tr>
<tr>
<td>P264</td>
<td>Wash thoroughly after handling.</td>
</tr>
<tr>
<td>P273</td>
<td>Avoid release to the environment.</td>
</tr>
<tr>
<td>P280</td>
<td>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</td>
</tr>
</tbody>
</table>

**Response:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P302+P352</td>
<td>IF ON SKIN: Wash with plenty of soap and water.</td>
</tr>
<tr>
<td>P305+P351+P338</td>
<td>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</td>
</tr>
<tr>
<td>P321</td>
<td>Specific treatment (see on this label).</td>
</tr>
<tr>
<td>P332+P313</td>
<td>If skin irritation occurs: Get medical advice /attention.</td>
</tr>
<tr>
<td>P333+P313</td>
<td>If skin irritation or rash occurs: Get medical advice /attention.</td>
</tr>
<tr>
<td>P337+P313</td>
<td>If eye irritation persists: Get medical advice /attention.</td>
</tr>
<tr>
<td>P362</td>
<td>Take off contaminated clothing and wash before reuse.</td>
</tr>
<tr>
<td>P363</td>
<td>Wash contaminated clothing before reuse.</td>
</tr>
<tr>
<td>P370+P378</td>
<td>In case of fire: Use CO2 for extinction.</td>
</tr>
<tr>
<td>P391</td>
<td>Collect spillage.</td>
</tr>
</tbody>
</table>

**Storage:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P403+P233</td>
<td>Store in a well-ventilated place. Keep container tightly closed.</td>
</tr>
<tr>
<td>P403+P235</td>
<td>Store in a well-ventilated place. Keep cool.</td>
</tr>
</tbody>
</table>

**Disposal:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P501</td>
<td>Dispose of contents/container in accordance with local regulation.</td>
</tr>
</tbody>
</table>

**Training advice:**

- Possible hazards: see section 2
- First aid measures: see section 4
- Firefighting measures: see section 5
- Personal protection equipment: see section 8
- Waste treatment methods: see section 13

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