

## Fragrance Agarwood & Absinth 00015738

Lemo Fun SRL



### **SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

#### 1.1. Product Identifier

##### IDENTIFICATION OF THE MIXTURE:

Fragrance, flavour, automotive cosmetics, industrial and household chemistry

##### TRADE NAME:

Fragrance Agarwood & Absinth 00015738

##### PRODUCT NUMBER:

00015738

##### UFI Code:

G5KD-W1F4-700X-JFE0

#### 1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

##### RECOMMENDED USE:

Aromatic ingredient for household chemicals and cosmetics. Intended for manufacturing only, not for direct consumption as such.

##### USE ADVISED AGAINST:

Do not use in food.

#### 1.3. Details of the Supplier of the Safety Data Sheet

##### SUPPLIER:

Lemo Fun SRL

##### ADDRESS:

Nicolae Licaret 6, Bucharest, Romania

##### PHONE:

+40784943113

##### EMAIL:

info@shoplumanari.ro

##### WEBSITE:

www.shoplumanari.ro

#### 1.4. Emergency Telephone Number

##### IN CASE OF INTOXICATION:

LATVIA – State Fire and Rescue Service: (+371) 112; (+371) 113;

National Poison Information Centre: +371 67042468;

GERMANY – International emergency number: +49 180 2273-112.

Transport emergency number (24 h service), Phone: +49 621 60-43333;

UNITED KINGDOM – National Poisons Information Service (24-hour service), Phone: +44 (0) 844-892-0111 (UK only);

FRANCE – INRS FRANCE: Phone: +33 (0)1 45 42 59-59.

FOR OTHER EU COUNTRIES please consult: [http://echa.europa.eu/help/nationalhelp\\_contact\\_en.asp](http://echa.europa.eu/help/nationalhelp_contact_en.asp)

## **SECTION 2: HAZARDS IDENTIFICATION**

### **2.1. Classification of the Substance or Mixture**

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Product definition: Mixture

Toxic to aquatic life with long lasting effects: H411

Harmful if swallowed: H302

May cause an allergic skin reaction: H317

Causes skin irritation: H315

### **2.2. Label Elements**

Labelling in accordance with Regulation (EC) No 1272/2008 (CLP)

Hazard Pictograms: GHS07 (Harmful/Irritant), GHS09 (Environment)

Signal Word: Warning

Hazard Statements:

H411 – Toxic to aquatic life with long lasting effects.

H302 – Harmful if swallowed.

H317 – May cause an allergic skin reaction.

H315 – Causes skin irritation.

Precautionary Statements:

P273 – Avoid release to the environment.

P264 – Wash thoroughly after handling.

P270 – Do not eat, drink or smoke when using this product.

P261 – Avoid breathing dust/fumes/gas/mist/vapours/spray. [As modified by IV ATP]

P272 – Contaminated work clothing should not be allowed out of the workplace.

P280 – Wear protective gloves/protective clothing/eye protection/face protection. [As modified by IV ATP]

P302+P352 – IF ON SKIN: Wash with plenty of soap and water.

P333+P313 – If skin irritation or rash occurs: Get medical advice/attention.

P501 – Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulation.

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

### **3.1. Substances:**

Mixture of natural, nature-identical and synthetic aromatic substances.

### **3.2. Mixtures:**

Mixture of natural and synthetic aromatic ingredients.

Hazardous components:

| Ingredient (IUPAC name)                                                                                                                        | %      | CAS No.                             | EC No.    | Index No. / REACH No.                             | Classification (CLP) Regulation (EC) No 1272/2008                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------------------|-----------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Benzyl Benzoate (IUPAC: BENZYL BENZOATE)                                                                                                       | <79.6% | 120-51-4                            | 204-402-9 | REACH: 01-211997637 1-33-xxxx                     | Aquatic Chronic 2: H411 Acute Tox. 4 ORAL: H302 Aquatic Acute 1: H400                                                          |
| Iso E Super (IUPAC: 1-(1,2,3,4,5,6,7,8-OCTAHYDRO-2,3,8,8-TETRAMETHYL-2-NAPHTHYL)ETHAN-1-ONE)                                                   | <2.4%  | 54464-57-2                          | 259-174-3 |                                                   | Aquatic Chronic 2: H411 Skin Sens. 1: H317 Skin Irrit. 2: H315 Eye Irrit. 2: H319                                              |
| Musk 50 IPM (IUPAC: 4,6,6,7,8,8-HEXAMETHYL-1H,3H,4H,6H,7H,8H-INDENO[5,6-C]PYRAN)                                                               | <1.2%  | 1222-05-5                           | 214-946-9 | Index: 603-212-00-7 REACH: 01-211948822 7-29-xxxx | Aquatic Chronic 1: H410 Aquatic Acute 1: H400 M Chr=1                                                                          |
| Cedarwood Oil TEXAS 100% pure and natural (IUPAC: CEDARWOOD OIL)                                                                               | <1.05% | 68990-83-0                          | 294-461-7 | REACH: 01-212075360 3-56-xxxx                     | Aquatic Chronic 1: H410 Skin Sens. 1B: H317 Skin Irrit. 2: H315 Aquatic Acute 1: H400 Asp. Tox. 1: H304 M=1                    |
| Benzyl Alcohol (IUPAC: PHENYLMETHANOL)                                                                                                         | <0.75% | 100-51-6                            | 202-859-9 | Index: 603-057-00-5 REACH: 01-211949263 0-38-xxxx | Acute Tox. 4 ORAL: H302 Acute Tox. 4 INHALATION: H332                                                                          |
| Bergamot oil, 100% pure and natural (IUPAC: BERGAMOT ESSENTIAL OIL)                                                                            | <0.75% | 89957-91-5 / 68648-33-9 / 8007-75-8 | 289-612-9 | REACH: 01-212011761 3-65-xxxx                     | Skin Sens. 1: H317 Flam. Liq. 3: H226 Skin Irrit. 2: H315 Eye Irrit. 2: H319 Asp. Tox. 1: H304 Aquatic Chronic 3: H412         |
| Eugenol (IUPAC: 2-METHOXY-4-(PROP-2-EN-1-YL)PHENOL)                                                                                            | <0.75% | 97-53-0                             | 202-589-1 | REACH: 01-211997180 2-33-xxxx                     | Skin Sens. 1B: H317 Skin Irrit. 2: H315 Eye Irrit. 2: H319 Asp. Tox. 1: H304                                                   |
| Amyl Cinnamic Aldehyde Alpha (IUPAC: (2Z)-2-(PHENYLMETHYLIDENE)HEPTANAL)                                                                       | <0.6%  | 122-40-7                            | 204-541-5 | REACH: 01-212074048 7-49-xxxx                     | Aquatic Chronic 2: H411 Skin Sens. 1: H317 M=1                                                                                 |
| Cinnamic Aldehyde (IUPAC: (2E)-3-PHENYLPROP-2-ENAL)                                                                                            | <0.6%  | 104-55-2                            | 203-213-9 | REACH: 01-211993524 2-45-xxxx                     | Skin Sens. 1: H317 Skin Irrit. 2: H315 Eye Irrit. 2: H319 Aquatic Chronic 3: H412                                              |
| Amberwood F (Boisambrene Forte) (IUPAC: (ETHOXYMETHOXY)CYCLODODECANE)                                                                          | <0.6%  | 58567-11-6                          | 261-332-1 | REACH: 01-211997157 1-34-xxxx                     | Aquatic Chronic 2: H411 Skin Sens. 1B: H317 Skin Irrit. 2: H315                                                                |
| Vertenex (PTBCH Acetate) (IUPAC: 4-TERT-BUTYLCYCLOHEXYL ACETATE)                                                                               | <0.6%  | 32210-23-4                          | 250-954-9 | REACH: 01-211997628 6-24-xxxx                     | Skin Sens. 1B: H317                                                                                                            |
| Methyl Cedryl Ketone (MCK) (IUPAC: (3R-(3A,3AB,7B,8AA))-1-(2,3,4,7,8,8A-HEXAHYDRO-3,6,8,8-TETRAMETHYLL-1H-3A,7-METHANOAZULEN-5-YL)ETHAN-1-ONE) | <0.6%  | 32388-55-9                          | 251-020-3 | REACH: 01-211996965 1-28-xxxx                     | Aquatic Chronic 1: H410 Skin Sens. 1B: H317 Aquatic Acute 1: H400                                                              |
| Benzoic Aldehyde (Benzaldehyde) (IUPAC: BENZALDEHYDE)                                                                                          | <0.45% | 100-52-7                            | 202-860-4 | Index: 605-012-00-5 REACH: 01-211945554 0-44-0000 | Acute Tox. 4 ORAL: H302                                                                                                        |
| D-Limonene (IUPAC: (4R)-1-METHYL-4-(PRO-P-1-EN-2-YL)CYCLOHEX-1-ENE)                                                                            | <0.21% | 5989-27-5 / 8028-48-6               | 227-813-5 | Index: 601-096-00-2 REACH: 01-211952922 3-47-xxxx | Flam. Liq. 3: H226 Skin Sens. 1B: H317 Skin Irrit. 2: H315 Aquatic Acute 1: H400 Asp. Tox. 1: H304 Aquatic Chronic 3: H412 M=1 |

| Ingredient (IUPAC name)                                                                                      | %       | CAS No.                            | EC No.    | Index No. / REACH No.                                | Classification (CLP) Regulation (EC) No 1272/2008                                                                                     |
|--------------------------------------------------------------------------------------------------------------|---------|------------------------------------|-----------|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Benzyl Acetate (IUPAC: BENZYL ACETATE)                                                                       | <0.15%  | 140-11-4                           | 205-399-7 | REACH: 01-211963827 2-42-xxxx                        | Aquatic Chronic 3: H412                                                                                                               |
| Linalyl Acetate (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-YL ACETATE)                                              | <0.15%  | 115-95-7                           | 204-116-4 | REACH: 01-211945478 9-19-xxxx                        | Skin Sens. 1B: H317<br>Skin Irrit. 2: H315 Eye Irrit. 2: H319                                                                         |
| Fir Needle Oil Siberia (IUPAC: ABIES SIBIRICA, ESSENTIAL OIL)                                                | <0.15%  | 91697-89-1                         | 294-351-9 | REACH: 01-212073883 5-44-xxxx                        | Aquatic Chronic 2: H411<br>Skin Sens. 1: H317<br>Flam. Liq. 3: H226<br>Skin Irrit. 2: H315<br>Eye Irrit. 2: H319<br>Asp. Tox. 1: H304 |
| Ethyl Acetate (IUPAC: ETHYL ACETATE)                                                                         | <0.15%  | 141-78-6                           | 205-500-4 | REACH: 01-211947510 3-46-xxxx                        | Eye Irrit. 2: H319<br>Flam. Liq. 2: H225<br>STOT SE 3: H336                                                                           |
| Guaiacwood Acetate (IUPAC: BULNESIA SARMIENTI, EXT., ACETATE)                                                | <0.15%  | 61789-17-1 / 94333-88-7 / 613-70-7 | 305-067-2 | REACH: 01-212074652 8-45-xxxx                        | Aquatic Chronic 1: H410<br>Skin Sens. 1B: H317<br>Skin Irrit. 2: H315<br>Aquatic Acute 1: H400 M=1                                    |
| Linalool (IUPAC: 3,7-DI METHYLOCTA-1,6-DIEN-3-OL)                                                            | <0.15%  | 78-70-6                            | 201-134-4 | Index: 603-235-00-2<br>REACH: 01-211947401 6-42-xxxx | Skin Sens. 1B: H317<br>Skin Irrit. 2: H315<br>Eye Irrit. 2: H319                                                                      |
| Sandal Mysore Core (Landalmysore Core) (IUPAC: 2-METHYL-4-(2,2,3-TRIMETHYLCYCLOPENT-3-EN-1-YL)BUT-2-EN-1-OL) | <0.12%  | 28219-60-5                         | 248-907-2 | REACH: 01-212027330 9-51-xxxx                        | Aquatic Chronic 1: H410<br>Eye Irrit. 2: H319<br>Aquatic Acute 1: H400                                                                |
| BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL)                                                                | <0.001% | 128-37-0                           | 204-881-4 | REACH: 01-211955527 0-46-0000                        | Aquatic Chronic 1: H410 M Chr=1                                                                                                       |

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First Aid Measures

#### Inhalation:

Immediately remove the affected person to fresh air. Seek medical attention if symptoms persist.

#### Ingestion:

Rinse mouth thoroughly with water. Give plenty of water to drink. Seek medical attention immediately.

#### Skin Contact:

Immediately remove contaminated clothing and wash skin with water and soap. Seek medical attention if symptoms are severe or persist after washing.

#### Eye Contact:

Remove all contact lenses and open eyelids wide. Immediately rinse with plenty of water. Continue rinsing for at least 15 minutes. Seek medical attention if symptoms persist.

### 4.2. Most Important Symptoms and Effects, Both Acute and Delayed:

Persons suffering from asthma, eczema or skin problems should avoid contact, including skin contact, with this product. See Section 11 for additional information on health hazards.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed:

Notes for the physician: No specific recommendations.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing Media:

Suitable extinguishing media: Use foam, carbon dioxide or dry powder.

Unsuitable extinguishing media: Water.

## 5.2. Special Hazards Arising from the Substance or Mixture:

Specific hazards: Toxic gases or vapours.

## 5.3. Advice for Firefighters:

Protective measures during firefighting: Containers near fire should be removed or cooled with water.

Special protective equipment for firefighters: Wear self-contained breathing apparatus (compressed air) and appropriate protective clothing.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures:

Wear appropriate protective equipment, including gloves, safety goggles/face shield, respiratory mask, boots, clothing or apron. No smoking, sparks, flames or other ignition sources near spills.

### 6.2. Environmental Precautions:

Do not allow to enter drains or watercourses or discharge onto the ground.

### 6.3. Methods and Materials for Containment and Cleaning Up:

Keep flammable materials away from spill. Eliminate all ignition sources. Ensure adequate ventilation. Contain and absorb spilled material with sand, earth or other non-combustible materials. The contaminated absorbent may represent the same hazard as the spilled material. Collect and place in appropriate disposal containers and seal securely. Label waste containers and contaminated materials and remove from the area as quickly as possible. Wash thoroughly after spill.

### 6.4. Reference to Other Sections:

See Section 8 for personal protective equipment. See Section 13 for disposal.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling:

Precautions for use: Wear protective clothing as described in Section 8 of this Safety Data Sheet. Avoid contact with skin, eyes and clothing.

Advice on general occupational hygiene: Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities:

Storage precautions: Keep in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Protect from frost and direct sunlight.

### 7.3. Specific End Use(s):

Aromatic ingredient for household chemicals and cosmetics.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters:

Occupational exposure limit values: No occupational exposure limit values have been established for this product. Derived No-Effect Levels (DNEL) have not been established for this product. Predicted No-Effect Concentrations (PNEC) have not been determined for this product.

Occupational Exposure Limit Values:

| Ingredient                             | CAS No.  | TWA, 8 hours                |
|----------------------------------------|----------|-----------------------------|
| Ethyl Acetate (IUPAC: ETHYL ACETATE)   | 141-78-6 | TWA= 200* mg/m <sup>3</sup> |
| Benzyl Alcohol (IUPAC: PHENYLMETHANOL) | 100-51-6 | TWA= 5* mg/m <sup>3</sup>   |
| Benzyl Acetate (IUPAC: BENZYL ACETATE) | 140-11-4 | TWA= 5* mg/m <sup>3</sup>   |
| Benzoic Aldehyde (Benzaldehyde)        | 100-52-7 | TWA= 5* mg/m <sup>3</sup>   |

\* Republic of Latvia Cabinet Regulation No. 325 Adopted 15 May 2007 – Labour Protection Requirements when Coming in Contact with Chemical Substances at Workplaces.

**ADDITIONAL INFORMATION:**

Information valid at the time of review of the Safety Data Sheet.

**8.2. Exposure Controls:****TECHNICAL MEASURES:**

Observe the usual precautions for working with chemicals. See Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work.

**HYGIENE MEASURES:**

Do not eat, drink or smoke when using this product.

**GENERAL PROTECTIVE AND HYGIENE MEASURES:**

Avoid contact with eyes. Wash hands during work breaks and at the end of the shift. Provide a skin protection plan.

**RESPIRATORY PROTECTION:**

Avoid excessive inhalation of concentrated vapours. Ensure adequate ventilation. If workers are exposed to high concentrations, they must use suitable certified respiratory protective masks. Wear appropriate respiratory protection in case of large-scale exposure. Suitable face/mouth protection according to EN 140.

**BODY PROTECTION:**

Protective clothing. Emergency showers should be available in the immediate vicinity of possible exposure. Wear appropriate protective clothing, overalls or suits and similar boots in accordance with EN 365/367.

**EYE PROTECTION:**

Wear appropriate safety goggles with side protection according to EN 166, if there is a risk of possible eye contact. Emergency eye wash fountains should be available in the immediate vicinity of possible exposure.

**HYGIENE MEASURES:**

No specific hygiene measures are recommended, but good personal hygiene practices should always be maintained when working with chemical products.

**HAND PROTECTION:**

Chemical-resistant gloves according to DIN EN 374 with CE marking. Suitable material: Nitrile. 0.13 mm. Permeation breakthrough time – 1 hour. Check the condition of protective gloves after each use for damage such as holes, cuts or tears. Do not wear protective gloves longer than necessary. After removing gloves, apply skin cleansers and skin cosmetics. Gloves for mechanical protection do not provide protection against chemicals.

**RISK MANAGEMENT MEASURES:**

Operators must be adequately trained. The workplace must be regularly inspected by competent personnel, e.g. the safety officer.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on Basic Physical and Chemical Properties**

| Property                    | Value                                                      |
|-----------------------------|------------------------------------------------------------|
| Appearance                  | Homogeneous, transparent liquid; opalescence is permitted. |
| Colour                      | Colourless to brown                                        |
| Odour                       | Fragrance description                                      |
| Refractive index, 20 °C     | 0.9 – 1.8                                                  |
| Density, 20 °C              | 0.9 – 1.6 g/cm <sup>3</sup>                                |
| Flash point                 | > 61 °C                                                    |
| Melting point/melting range | < 0 °C                                                     |
| Boiling point               | No data available                                          |
| Freezing point              | No data available                                          |
| Decomposition temperature   | No data available                                          |
| Solubility in water         | Limited solubility                                         |
| Solubility in alcohol       | Soluble                                                    |

## **SECTION 10: STABILITY AND REACTIVITY**

### **10.1. Reactivity:**

The product is stable and relatively inert under normal conditions of use, storage and transport.

### **10.2. Chemical Stability:**

The product is stable under the conditions of use described in Section 7.

### **10.3. Possibility of Hazardous Reactions:**

Under normal conditions of use, there is no information on hazardous reactions.

### **10.4. Conditions to Avoid:**

Contact with incompatible materials.

### **10.5. Incompatible Materials:**

Strong acids, strong bases, strong oxidising agents.

### **10.6. Hazardous Decomposition Products:**

No decomposition products are expected under storage and handling conditions. In the event of fire, hazardous gases may form.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **11.1. Information on Toxicological Effects**

#### **INHALATION:**

Acute toxicity: Calculated ATEmix (LC50) = 76.84 mg/l. Components of unknown toxicity >10%: 97.9%. Not classified.

Corrosion/Irritation: Not classified – based on available data, the classification criteria are not met.

Sensitisation: Does not contain substances classified as inhalation allergens. Not classified – based on available data, the classification criteria are not met.

Carcinogenicity: Does not contain carcinogenic substances. Not classified – based on available data, the classification criteria are not met.

Mutagenicity: Does not contain mutagenic substances. Not classified – based on available data, the classification criteria are not met.

#### **SKIN CONTACT:**

Acute toxicity: Calculated ATEmix (LD50) = 8 276.72 mg/kg. Components of unknown toxicity >10%: 88%. Not classified.

Corrosion/Irritation: Not classified – based on available data, the classification criteria are not met.

Sensitisation: Does not contain substances classified as inhalation allergens. Not classified – based on available data, the classification criteria are not met.

Carcinogenicity: Does not contain carcinogenic substances. Not classified – based on available data, the classification criteria are not met.

Mutagenicity: Does not contain mutagenic substances. Not classified – based on available data, the classification criteria are not met.

#### **EYE CONTACT:**

Corrosion/Irritation: Classified as Not Classified.

#### **INGESTION:**

Acute toxicity: Calculated ATEmix (LD50) = 489.22 mg/kg. Components of unknown toxicity >10%: 6.48%. 300 < ATEmix > 2 000 mg/kg. Classified as Acute toxicity, Hazard Category 4.

Corrosion/Irritation: May cause nausea, vomiting and diarrhoea.

Sensitisation: Does not contain carcinogenic substances. Not classified – based on available data, the classification criteria are not met.

Carcinogenicity: Does not contain carcinogenic substances. Not classified – based on available data, the classification criteria are not met.

Mutagenicity: Does not contain mutagenic substances. Not classified – based on available data, the classification criteria are not met.

Reproductive toxicity: Not expected to be reproductively toxic. Not classified – based on available data, the classification criteria are not met. Fertility: Not classified – based on available data, the classification criteria are not met.

Toxicological information by ingredient:

| Ingredient name                                                                          | CAS No.                             | LD50 (Oral)    | LD50 (Dermal) | LC50 (Inhalation) |
|------------------------------------------------------------------------------------------|-------------------------------------|----------------|---------------|-------------------|
| Benzyl Benzoate (IUPAC: BENZYL BENZOATE)                                                 | 120-51-4                            | 2 000 mg/kg    | non-toxic     | non-toxic         |
| Musk 50 IPM (IUPAC: 4,6,6,7,8,8-HEXAMETHYL-1H,3H,4H,6H,7H,8H-INDENO[5,6-C]PYRAN)         | 1222-05-5                           | non-toxic      | non-toxic     | non-toxic         |
| Cedarwood Oil TEXAS 100% pure and natural (IUPAC: CEDARWOOD OIL)                         | 68990-83-0                          | non-toxic      | non-toxic     | non-toxic         |
| Benzyl Alcohol (IUPAC: PHENYLMETHANOL)                                                   | 100-51-6                            | 1 580 mg/kg    | non-toxic     | 4.178 mg/l        |
| Bergamot oil, 100% pure and natural (IUPAC: BERGAMOT ESSENTIAL OIL)                      | 89957-91-5 / 68648-33-9 / 8007-75-8 | non-toxic      | non-toxic     | non-toxic         |
| Eugenol (IUPAC: 2-METHOXY-4-(PROP-2-EN-1-YL)PHENOL)                                      | 97-53-0                             | non-toxic      | non-toxic     | non-toxic         |
| Amyl Cinnamic Aldehyde Alpha (IUPAC: (2Z)-2-(PHENYLMETHYLIDENE)HEPTANAL)                 | 122-40-7                            | non-toxic      | non-toxic     | non-toxic         |
| Cinnamic Aldehyde (IUPAC: (2E)-3-PHENYLPROP-2-ENAL)                                      | 104-55-2                            | non-toxic      | non-toxic     | non-toxic         |
| Amberwood F (Boisambrene Forte) (IUPAC: (ETHOXYMETHOXY)CYCLODECANE)                      | 58567-11-6                          | non-toxic      | non-toxic     | non-toxic         |
| Methyl Cedryl Ketone (MCK)                                                               | 32388-55-9                          | non-toxic      | non-toxic     | non-toxic         |
| Benzoic Aldehyde (Benzaldehyde) (IUPAC: BENZALDEHYDE)                                    | 100-52-7                            | 1 430 mg/kg bw | non-toxic     | non-toxic         |
| D-Limonene (IUPAC: (4R)-1-METHYL-4-(PROP-1-EN-2-YL)CYCLOHEX-1-ENE)                       | 5989-27-5 / 8028-48-6               | non-toxic      | non-toxic     | non-toxic         |
| Benzyl Acetate (IUPAC: BENZYL ACETATE)                                                   | 140-11-4                            | non-toxic      | non-toxic     | non-toxic         |
| Linalyl Acetate (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-YL ACETATE)                          | 115-95-7                            | non-toxic      | non-toxic     | non-toxic         |
| Fir Needle Oil Siberia (IUPAC: ABIES SIBIRICA, ESSENTIAL OIL)                            | 91697-89-1                          | non-toxic      | non-toxic     | non-toxic         |
| Ethyl Acetate (IUPAC: ETHYL ACETATE)                                                     | 141-78-6                            | non-toxic      | non-toxic     | non-toxic         |
| Guaiacwood Acetate (IUPAC: BULNESIA SARMIENTI, EXT., ACETATE)                            | 61789-17-1 / 94333-88-7 / 613-70-7  | non-toxic      | non-toxic     | non-toxic         |
| Linalool (IUPAC: 3,7-DIMETHYLOCTA-1,6-DIEN-3-OL)                                         | 78-70-6                             | non-toxic      | non-toxic     | non-toxic         |
| Sandal Mysore Core (IUPAC: 2-METHYL-4-(2,2,3-TRIMETHYLCYCLOPENT-3-EN-1-YL)BUT-2-EN-1-OL) | 28219-60-5                          | non-toxic      | non-toxic     | non-toxic         |
| BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL)                                            | 128-37-0                            | non-toxic      | non-toxic     | non-toxic         |

**11.2. Primary Irritant Effects:**

11.2.1. Endocrine Disrupting Properties: Musk 50 IPM (IUPAC: 4,6,6,7,8,8-HEXAMETHYL-1H,3H,4H,6H,7H,8H-INDENO[5,6-C]PYRAN)

**11.3. Sensitisation:**

May have a sensitising effect.

**11.4. Chronic Effects:**

No chronic effects known.

**11.5. Target Organs:**

No adverse effects on target organ health are expected for the finished product.

**11.6. Carcinogenicity:**

The finished product is not expected to be carcinogenic.

**11.7. Mutagenicity:**

The finished product is not expected to be mutagenic.

**11.8. Reproductive Toxicity:**

The finished product is not expected to be reproductively toxic.

**SECTION 12: ECOLOGICAL INFORMATION****12.1. Toxicity:**

No ecotoxicological research has been carried out on this product.

Ecotoxicity – Toxic to aquatic organisms:  $(M \times 10 \times \text{Chronic Category } 1) + \text{Chronic Category } 2 \geq 25\% = 96.08 \geq 25 \Rightarrow \text{Hazardous to the aquatic environment} — \text{Chronic Category } 2$

Ingredient Toxicity – Aquatic Toxicity:

| Ingredient / CAS No.                                   | Test        | Result                                     |
|--------------------------------------------------------|-------------|--------------------------------------------|
| Benzyl Benzoate (IUPAC: BENZYL BENZOATE) / 120-51-4    | EC50/72H    | 311 (Aquatic algae and cyanobacteria)      |
| Benzyl Benzoate (IUPAC: BENZYL BENZOATE) / 120-51-4    | LC50/48H    | 7.77 mg/l (Aquatic invertebrates)          |
| Benzyl Benzoate (IUPAC: BENZYL BENZOATE) / 120-51-4    | EC50/48H    | 3.09 mg/l (Aquatic invertebrates)          |
| Benzyl Benzoate (IUPAC: BENZYL BENZOATE) / 120-51-4    | LC50/24H    | 11 mg/l (Aquatic invertebrates)            |
| Benzyl Benzoate (IUPAC: BENZYL BENZOATE) / 120-51-4    | LC50/96H    | 2.32 mg/l (Fish)                           |
| Benzyl Benzoate (IUPAC: BENZYL BENZOATE) / 120-51-4    | EC50/24H    | 4.26 mg/l (Fish)                           |
| Musk 50 IPM (1222-05-5)                                | EC50/72H    | 854 µg/L (Aquatic algae and cyanobacteria) |
| Musk 50 IPM (1222-05-5)                                | EC50/48H    | 300 µg/L (Aquatic invertebrates)           |
| Musk 50 IPM (1222-05-5)                                | LC50/96H    | 950 µg/L (Fish)                            |
| Benzyl Alcohol (PHENYLMETHANOL) / 100-51-6             | EC50/72H    | 500 mg/l (Algae)                           |
| Benzyl Alcohol (PHENYLMETHANOL) / 100-51-6             | EC50/96H    | 76.828 mg/l (Algae)                        |
| Benzyl Alcohol (PHENYLMETHANOL) / 100-51-6             | LC50/48H    | 260.415 mg/l (Aquatic invertebrates)       |
| Benzyl Alcohol (PHENYLMETHANOL) / 100-51-6             | EC50/48H    | 230 mg/l (Aquatic invertebrates)           |
| Benzyl Alcohol (PHENYLMETHANOL) / 100-51-6             | EC50/21days | 66 mg/l (Aquatic invertebrates)            |
| Benzyl Alcohol (PHENYLMETHANOL) / 100-51-6             | LC50/96H    | 460 mg/l (Fish)                            |
| Benzyl Alcohol (PHENYLMETHANOL) / 100-51-6             | LC50/72H    | 460 mg/l (Fish)                            |
| Benzyl Alcohol (PHENYLMETHANOL) / 100-51-6             | LC50/48H    | 770 mg/l (Fish)                            |
| Benzyl Alcohol (PHENYLMETHANOL) / 100-51-6             | LC50/24H    | 770 mg/l (Fish)                            |
| Eugenol (2-METHOXY-4-(PROP-2-EN-1-YL)PHENOL) / 97-53-0 | EC50/72H    | 23 mg/l (Algae)                            |

| Ingredient / CAS No.                                                                | Test        | Result                                      |
|-------------------------------------------------------------------------------------|-------------|---------------------------------------------|
| Eugenol<br>(2-METHOXY-4-(PROP-2-EN-1-YL)PHENOL) / 97-53-0                           | EC50/48H    | 1.05 mg/l (Aquatic invertebrates)           |
| Eugenol<br>(2-METHOXY-4-(PROP-2-EN-1-YL)PHENOL) / 97-53-0                           | LC50/96H    | 13 mg/l (Fish)                              |
| Eugenol<br>(2-METHOXY-4-(PROP-2-EN-1-YL)PHENOL) / 97-53-0                           | LC50/72H    | 13 mg/l (Fish)                              |
| Eugenol<br>(2-METHOXY-4-(PROP-2-EN-1-YL)PHENOL) / 97-53-0                           | LC50/48H    | 13 mg/l (Fish)                              |
| Eugenol<br>(2-METHOXY-4-(PROP-2-EN-1-YL)PHENOL) / 97-53-0                           | LC50/24H    | 13 mg/l (Fish)                              |
| Amyl Cinnamic Aldehyde Alpha<br>((2Z)-2-(PHENYLMETHYLIDENE)HEPTANAL) / 122-40-7     | EC50/72H    | 2.3 mg/l (Aquatic algae and cyanobacteria)  |
| Amyl Cinnamic Aldehyde Alpha<br>((2Z)-2-(PHENYLMETHYLIDENE)HEPTANAL) / 122-40-7     | EC50/48H    | 280 (Aquatic invertebrates)                 |
| Amyl Cinnamic Aldehyde Alpha<br>((2Z)-2-(PHENYLMETHYLIDENE)HEPTANAL) / 122-40-7     | EC50/21days | 54 (Aquatic invertebrates)                  |
| Amyl Cinnamic Aldehyde Alpha<br>((2Z)-2-(PHENYLMETHYLIDENE)HEPTANAL) / 122-40-7     | LC50/96H    | 910 (Fish)                                  |
| Cinnamic Aldehyde<br>((2E)-3-PHENYLPROP-2-ENAL) / 104-55-2                          | EC50/72H    | 31.6 mg/l (Aquatic algae and cyanobacteria) |
| Cinnamic Aldehyde<br>((2E)-3-PHENYLPROP-2-ENAL) / 104-55-2                          | LC50/48H    | 8.1 mg/l (Aquatic invertebrates)            |
| Cinnamic Aldehyde<br>((2E)-3-PHENYLPROP-2-ENAL) / 104-55-2                          | EC50/48H    | 119.558 mg/l (Aquatic invertebrates)        |
| Cinnamic Aldehyde<br>((2E)-3-PHENYLPROP-2-ENAL) / 104-55-2                          | LC50/96H    | 105.764 mg/l (Fish)                         |
| Amberwood F (Boisambrene Forte)<br>((ETHOXYMETHOXY)CYCLODODECANE) / 58567-11-6      | EC50/72H    | 2 mg/l (Aquatic algae and cyanobacteria)    |
| Amberwood F (Boisambrene Forte)<br>((ETHOXYMETHOXY)CYCLODODECANE) / 58567-11-6      | EC50/48H    | 1.6 mg/l (Aquatic invertebrates)            |
| Amberwood F (Boisambrene Forte)<br>((ETHOXYMETHOXY)CYCLODODECANE) / 58567-11-6      | LC50/96H    | 1.9 mg/l (Fish)                             |
| Vertenex (PTBCH Acetate)<br>(4-TERT-BUTYLCYCLOHEXYL ACETATE) / 32210-23-4           | EC50/72H    | 22 mg/l (Algae)                             |
| Vertenex (PTBCH Acetate)<br>(4-TERT-BUTYLCYCLOHEXYL ACETATE) / 32210-23-4           | EC50/48H    | 5.3 mg/l (Aquatic invertebrates)            |
| Vertenex (PTBCH Acetate)<br>(4-TERT-BUTYLCYCLOHEXYL ACETATE) / 32210-23-4           | LC50/96H    | 8.6 mg/l (Fish)                             |
| Methyl Cedryl Ketone (MCK) / 32388-55-9                                             | EC50/96H    | 4.3 mg/l (Aquatic algae and cyanobacteria)  |
| Methyl Cedryl Ketone (MCK) / 32388-55-9                                             | EC50/48H    | 860 µg/L (Aquatic invertebrates)            |
| Methyl Cedryl Ketone (MCK) / 32388-55-9                                             | EC50/21days | 320 µg/L (Aquatic invertebrates)            |
| Methyl Cedryl Ketone (MCK) / 32388-55-9                                             | LC50/96H    | 3 mg/l (Fish)                               |
| Benzoic Aldehyde (Benzaldehyde) / 100-52-7                                          | EC50/72H    | 33.1 mg/l (Aquatic algae and cyanobacteria) |
| Benzoic Aldehyde (Benzaldehyde) / 100-52-7                                          | EC50/48H    | 19.7 mg/l (Aquatic invertebrates)           |
| Benzoic Aldehyde (Benzaldehyde) / 100-52-7                                          | EC50/24H    | 50 mg/l (Aquatic invertebrates)             |
| Benzoic Aldehyde (Benzaldehyde) / 100-52-7                                          | LC50/96H    | 13.8 mg/l (Fish)                            |
| Benzoic Aldehyde (Benzaldehyde) / 100-52-7                                          | LC50/96H    | 1.07 mg/l (Fish)                            |
| D-Limonene ((4R)-1-METHYL-4-(PROP-1-EN-2-YL)CYCLOHEX-1-ENE) / 5989-27-5 / 8028-48-6 | EC50/72H    | 320 mg/l (Aquatic algae and cyanobacteria)  |
| D-Limonene / 5989-27-5 / 8028-48-6                                                  | EC50/48H    | 250 mg/l (Aquatic algae and cyanobacteria)  |

| Ingredient / CAS No.                                                                           | Test        | Result                                         |
|------------------------------------------------------------------------------------------------|-------------|------------------------------------------------|
| D-Limonene / 5989-27-5 / 8028-48-6                                                             | EC50/48H    | 250 (Algae)                                    |
| D-Limonene / 5989-27-5 / 8028-48-6                                                             | EC50/48H    | 510 mg/l (Aquatic invertebrates)               |
| D-Limonene / 5989-27-5 / 8028-48-6                                                             | EC50/48H    | 408.5 mg/l (Aquatic invertebrates)             |
| D-Limonene / 5989-27-5 / 8028-48-6                                                             | EC50/24H    | 840 mg/l (Aquatic invertebrates)               |
| D-Limonene / 5989-27-5 / 8028-48-6                                                             | EC50/21days | 188 mg/l (Aquatic invertebrates)               |
| D-Limonene / 5989-27-5 / 8028-48-6                                                             | LC50/96H    | 720 mg/l (Fish)                                |
| D-Limonene / 5989-27-5 / 8028-48-6                                                             | EC50/96H    | 702 mg/l (Fish)                                |
| D-Limonene / 5989-27-5 / 8028-48-6                                                             | LC50/96H    | 590 mg/l (Fish)                                |
| D-Limonene / 5989-27-5 / 8028-48-6                                                             | EC50/96H    | 695 (Fish)                                     |
| Benzyl Acetate (BENZYL ACETATE) / 140-11-4                                                     | EC50/72H    | 101 mg/l (Algae)                               |
| Benzyl Acetate (BENZYL ACETATE) / 140-11-4                                                     | EC50/48H    | 17 mg/l (Aquatic invertebrates)                |
| Benzyl Acetate (BENZYL ACETATE) / 140-11-4                                                     | LC50/96H    | 4 mg/l (Fish)                                  |
| Linalyl Acetate (3,7-DIMETHYLOCTA-1,6-DIEN-3-YL ACETATE) / 115-95-7                            | EC50/96H    | 88.3 mg/l (Aquatic algae and cyanobacteria)    |
| Linalyl Acetate / 115-95-7                                                                     | EC50/48H    | 59 mg/l (Aquatic invertebrates)                |
| Linalyl Acetate / 115-95-7                                                                     | EC50/24H    | 71 mg/l (Aquatic invertebrates)                |
| Linalyl Acetate / 115-95-7                                                                     | LC50/96H    | 11 mg/l (Fish)                                 |
| Linalyl Acetate / 115-95-7                                                                     | LC50/       | 11.14 mg/l (Fish)                              |
| Linalyl Acetate / 115-95-7                                                                     | EC50/48H    | 59 mg/l (Fish)                                 |
| Ethyl Acetate (ETHYL ACETATE) / 141-78-6                                                       | EC50/48H    | 5.6 g/l (Algae)                                |
| Ethyl Acetate (ETHYL ACETATE) / 141-78-6                                                       | LC50/96H    | 230 mg/l (Fish)                                |
| Ethyl Acetate (ETHYL ACETATE) / 141-78-6                                                       | EC50/96H    | 220 mg/l (Fish)                                |
| Guaiacwood Acetate (BULNESIA SARMIENTI, EXT., ACETATE) / 61789-17-1 / 94333-88-7 / 613-70-7    | EC50/72H    | 310 (Aquatic algae and cyanobacteria)          |
| Guaiacwood Acetate / 61789-17-1 / 94333-88-7 / 613-70-7                                        | EC50/48H    | 330 (Aquatic invertebrates)                    |
| Linalool (3,7-DIMETHYLOCTA-1,6-DIEN-3-OL) / 78-70-6                                            | EC50/96H    | 122.5 mg/l (Algae)                             |
| Linalool / 78-70-6                                                                             | EC50/96H    | 59 mg/l (Aquatic invertebrates)                |
| Linalool / 78-70-6                                                                             | LC50/96H    | 27.8 mg/l (Fish)                               |
| Linalool / 78-70-6                                                                             | LC50/72H    | 27.8 mg/l (Fish)                               |
| Linalool / 78-70-6                                                                             | LC50/48H    | 27.8 mg/l (Fish)                               |
| Sandal Mysore Core (2-METHYL-4-(2,2,3-TRIMETHYLCYCLOPENT-3-EN-1-YL)BUT-2-EN-1-OL) / 28219-60-5 | EC50/72H    | 702.449 µg/L (Aquatic algae and cyanobacteria) |
| Sandal Mysore Core / 28219-60-5                                                                | EC50/96H    | 995 µg/L (Aquatic algae and cyanobacteria)     |
| Sandal Mysore Core / 28219-60-5                                                                | LC50/48H    | 486 µg/L (Aquatic invertebrates)               |
| Sandal Mysore Core / 28219-60-5                                                                | EC50/48H    | 35.538 µg/L (Aquatic invertebrates)            |
| BHT (2,6-DI-TERT-BUTYL-4-METHYLPHENOL) / 128-37-0                                              | EC50/72H    | 5 120 µg/L (Algae)                             |
| BHT / 128-37-0                                                                                 | EC50/96H    | 758 µg/L (Algae)                               |
| BHT / 128-37-0                                                                                 | LC50/96H    | 384.5 µg/L (Fish)                              |

## 12.2. Persistence and Degradability:

May have long-term harmful effects on the aquatic environment.

Assessment of biodegradability and elimination: No data available.

## 12.3. Bioaccumulative Potential:

No further relevant information available. Low potential for bioaccumulation: (log Pow calculated = 0)

| Chemical name | CAS No. | Partition coefficient |
|---------------|---------|-----------------------|
|---------------|---------|-----------------------|

## 12.4. Mobility in Soil:

The product is partially water-soluble. Adsorbs to soil and has low mobility.

General notes: Wastewater containing this product must not be discharged into water bodies without prior treatment.

#### 12.5. Results of PBT and vPvB Assessment:

This mixture does not contain any substances that meet the PBT or vPvB criteria of Annex XIII of the REACH Regulation.

#### 12.6. Endocrine Disrupting Properties:

Musk 50 IPM (IUPAC: 4,6,6,7,8,8-HEXAMETHYL-1H,3H,4H,6H,7H,8H-INDENO[5,6-C]PYRAN), BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL)

#### 12.7. Other Adverse Effects:

Greenhouse potential: Cannot contribute to the greenhouse effect.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste Treatment Methods:

Dispose of in accordance with local and national regulations.

Product residues: Do not dispose of empty packaging with household waste. Containers can be recycled. Treat product residues, impregnated cloths and non-empty packaging as special waste.

Additional warning: None.

European Waste Catalogue: Hazardous waste in accordance with Directive 91/689/EEC, recognising a waste code in accordance with Commission Decision 2000/532/EC, must be disposed of in an official chemical waste depot.

Local legislation: Disposal should be carried out in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be observed.

| EWG Code | Description                                                                                                                       |
|----------|-----------------------------------------------------------------------------------------------------------------------------------|
| 07       | Wastes from organic chemical processes:                                                                                           |
| 07 07    | Wastes from the manufacture, formulation, supply and use (MFSU) of fine chemicals and chemical products, not otherwise specified. |
| 07 07 99 | Wastes not otherwise specified.                                                                                                   |

Contaminated Packaging: Do not dispose of empty packaging with household waste. Containers can be recycled. Treat product residues, impregnated cloths and non-empty packaging as special waste.

Recommendation: Avoid release to the environment.

### SECTION 14: TRANSPORT INFORMATION

| Parameter                                                     | Details                                                              |
|---------------------------------------------------------------|----------------------------------------------------------------------|
| 14.1. UN Number                                               | UN 3082                                                              |
| 14.2. UN Proper Shipping Name                                 | UN 3082 Environmentally hazardous substance, liquid, N.O.S.          |
| 14.3. Transport Hazard Class(es) – ADR, IATA, IMDG – Class    | 9                                                                    |
| 14.3. Hazard label                                            | 9                                                                    |
| 14.4. Packing Group – ADR, IATA, IMDG                         | III                                                                  |
| 14.5. Environmental Hazards – Marine Pollutant                | Yes                                                                  |
| 14.6. Special Precautions for User                            | Read the Safety Data Sheet and emergency procedures before handling. |
| 14.7. Maritime Transport in Bulk According to IMO Instruments | Not applicable. Packaged liquids are not considered bulk liquids.    |

### SECTION 15: REGULATORY INFORMATION

#### 15.1. Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:

REGULATION (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

DIRECTIVE 2006/11/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 15 February 2006 on pollution caused by certain dangerous substances discharged into the aquatic environment of the Community.

REGULATION (EC) No 1272/2008 (CLP) of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

COMMISSION Regulation (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on REACH.

#### INFORMATION ON USE RESTRICTIONS:

Observe Directive 94/33/EC on the protection of young people at work.

Observe Directive 92/85/EC on the safety and health at work of pregnant workers.

#### 15.2. Chemical Safety Assessment:

Not applicable.

### **SECTION 16: OTHER INFORMATION**

Full text of classifications referred to in Sections 2 and 3, including the hazard class, hazard symbols and hazard statements:

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.

H319 – Causes serious eye irritation.

H332 – Harmful if inhaled.

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.

P261 – Avoid breathing dust/fumes/gas/mist/vapours/spray. [As modified by IV ATP]

P264 – Wash thoroughly after handling.

P270 – Do not eat, drink or smoke when using this product.

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. [As modified by IV ATP]

P302+P352 – IF ON SKIN: Wash with plenty of soap and water.

P333+P313 – If skin irritation or rash occurs: Get medical advice/attention.

P501 – Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulation.

#### ABBREVIATIONS AND ACRONYMS:

PBT: Persistent, Bioaccumulative and Toxic

vPvB: Very Persistent and very Bioaccumulative

EC: European inventory of existing commercial chemical substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

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

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods Code

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

EC50: Effective concentration, 50 percent

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

ECHA: European Chemicals Agency, Helsinki ([http://echa.europa.eu/home\\_en.asp](http://echa.europa.eu/home_en.asp))

TWA: Time-weighted average

IBC code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

MARPOL: International Convention for the Prevention of Pollution from Ships

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

UN: United Nations

ATE: Acute Toxicity Estimate

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