




### Section 1. Product and Company Identification

|                         |  |
|-------------------------|--|
| <b>Product Name:</b>    | Blue Tansy   |
| <b>Product Code:</b>    | 436  |
| <b>Description:</b>     | Essential Oil of Blue Tansy  |
| <b>Product Use:</b>     | Industrial   |
| <b>Manufacturer:</b>    | Artisan Aromatics 1708 Lena St, #103, Santa Fe, NM 87505 Email –<br>hello@artisanaromatics.com |
| <b>Emergency Phone:</b> | USA, Canada, Mexico: 1-800-535-5053<br>International: 1-352-323-3500                           |

### Section 2. Hazards Identification

|                       |   |
|-----------------------|---|
| <b>Category:</b>      | H226 Flammable liquid and vapor.  |
| <b>Signal Word:</b>   | Warning   |
| <b>Ingestion:</b>     | H305 May be harmful if swallowed and enters airways.                                |
| <b>Health Risks:</b>  | N/A   |
| <b>Eye Contact:</b>   | H319 Causes eye irritation.   |
| <b>Skin Contact:</b>  | H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.           |
| <b>Environmental:</b> | H411 Toxic to aquatic life with long lasting effects.                               |
| <b>Pictograms:</b>    |  |

#### PRECAUTIONARY STATEMENT:

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P261 Avoid breathing mist or vapor.  
P264 Wash thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/eye protection/face protection.

### Section 3. Composition and Information on Ingredients

|                        |                            |
|------------------------|----------------------------|
| <b>Chemical name:</b>  | <i>Tanacetum annuum l.</i> |
| <b>Physical State:</b> | Liquid.                    |
| <b>CAS #:</b>          | 934-978-3                  |
| <b>Impurities:</b>     | None.                      |

Trade Secret Claim: None.

#### Section 4. First Aid Measures

|                             |   |
|-----------------------------|---|
| <b>Eyes:</b>                | Rinse eyes immediately with running water at low pressure. Consult an ophthalmologist.  |
| <b>Skin Contact:</b>        | Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes   |
| <b>Inhalation:</b>          | If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.  |
| <b>Ingestion in excess:</b> | Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. |
| <b>Emergency Care:</b>      | Contact local emergency provider. For non-emergency, contact primary care provider.   |
| <b>PPE:</b>                 | Gloves, lab coat or uniform, safety glasses, eyewash, safety shower.  |

#### Section 5. Fire-Fighting Measures

|  |   |
|--|---|
| <b>Flammability:</b>                         | Flammable.  |
| <b>Extinguishing Media:</b>                  | SUITABLE: Fog, CO2, dry chemical, or alcohol resistant foam<br>NON SUITABLE: Water.   |
| <b>Special Fire-Fighting Procedure:</b>      | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode when fighting fires.                              |
| <b>Unusual Fire and Explosion Hazards:</b>   | Vapor may travel to source of ignition and flash back. Vapor may settle low or in confined spaces. May produce a floating fire hazard. Static ignition hazard can result from handling and use. Essential and vegetable oils have the potential to self-heat and contribute to spontaneous combustion when present on fabrics. Caution should be exercised in the storage and launder of fabrics exposed to oils. |
| <b>PPE and Precautions for Firefighters:</b> | Static charges generated by emptying package in or near flammable vapor may cause flash fire. Use water spray to cool unopened containers.  |

#### Section 6. Accidental Release Measures

|                              |   |
|------------------------------|---|
| <b>Personal Precautions:</b> | Keep unnecessary personnel away. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. |
|------------------------------|---|

|                                   |   |
|-----------------------------------|---|
| <b>Environmental Precautions:</b> | Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid release to the environment. Retain and dispose of contaminated wash water. Contact local authorities in case of spillage to drain/aquatic environment.  |
| <b>Containment:</b>               | Absorb with clay, sand, or other non-combustible material. Prevent entry into waterways, sewers, and confined areas.  |
| <b>Clean Up:</b>                  | Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. The product is immiscible with water and will spread on the water surface.<br><b>Large Spills:</b> Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Prevent product from entering drains. Do not allow material to contaminate ground water system. Absorb in vermiculite, dry sand or earth and place into containers.<br><b>Small Spills:</b> Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. |

## Section 7. Handling and Storage

|                              |  |
|------------------------------|--|
| <b>Handling Precautions:</b> | Avoid contact with eyes and mucous. Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.  |
| <b>Storage Precautions:</b>  | Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling |
| <b>Other:</b>                | See Section 8  |

## Section 8. Exposure Controls/Personal Protection

|                                  |   |
|----------------------------------|---|
| <b>Engineering Controls:</b>     | Exhaust ventilation or other engineering controls to keep vapor concentration below their respective threshold limit value. Ensure eyewash stations and safety showers are proximal to the work station. Use explosion-proof ventilation equipment to stay below exposure limits. |
| <b>Respiratory Protection:</b>   | Chemical respirator with organic vapor cartridge and full face piece.   |
| <b>Hand Protection:</b>          | Plastic or synthetic rubber impermeable gloves. Chemical resistant gloves.  |
| <b>Eye Protection:</b>           | Goggles giving complete protection to eyes. Eyewash bottle with clean water.  |
| <b>Skin and Body Protection:</b> | Clothes for chemical protection to avoid contact. Use of an impervious apron is recommended. Wear appropriate thermal protective clothing, when necessary   |

|   |   |
|---|---|
| <b>Ingestion:</b>                               | Do not eat, drink and smoke while using   |
| <b>Industrial Hygiene:</b>                      | When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace. |
| <b>OSHA Permissible Exposure Limits (PELs):</b> | N/A   |
| <b>ACGIH Threshold Limit Values:</b>            | N/A   |

## Section 9. Physical and Chemical Properties

|   |                                  |
|---|----------------------------------|
| <b>Appearance:</b>                              | Deep blue liquid                 |
| <b>Upper/Lower Flammability:</b>                | Will ignite if moderately heated |
| <b>Odor:</b>                                    | Limpid with characteristic notes |
| <b>Vapor Pressure:</b>                          | N/A                              |
| <b>Odor Threshold:</b>                          | N/A                              |
| <b>Vapor Density:</b>                           | N/A                              |
| <b>pH:</b>                                      | N/A                              |
| <b>Relative Density:</b>                        | 0.900 – 0.935                    |
| <b>Melting Point:</b>                           | N/A                              |
| <b>Freezing Point:</b>                          | N/A                              |
| <b>Solubility:</b>                              | Insoluble                        |
| <b>Initial Boiling Point and Boiling Range:</b> | N/A                              |
| <b>Flash Point:</b>                             | 118.4°F / 48°C                   |
| <b>Evaporation Rate:</b>                        | N/A                              |
| <b>Flammability Category:</b>                   | N/A                              |
| <b>Partition Coefficient:</b>                   | N/A                              |
| <b>Auto-ignition Temperature:</b>               | N/A                              |
| <b>Decomposition Temperature:</b>               | N/A                              |
| <b>Viscosity:</b>                               | N/A                              |
| <b>Specific Gravity:</b>                        | N/A                              |

## Section 10. Stability and Reactivity

|                              |  |
|------------------------------|--|
| <b>Stability:</b>            | Stable under normal circumstances. Avoid heat and ignition sources.  |
| <b>Avoid:</b>                | Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| <b>Incompatibility:</b>      | Strong oxidizing agents.   |
| <b>Hazardous Byproducts:</b> | None in normal conditions  |
| <b>Other:</b>                | No hazardous decomposition products if stored and handled as indicated.  |

## Section 11. Toxicological Information

|  |   |
|--|---|
| <b>Toxicological and Health Effects:</b> | Nontoxic at established levels.   |
| <b>Likely Routes of Exposure:</b>        | Eyes, nose, mouth, skin.  |
| <b>Signs and Symptoms of Exposure:</b>   | Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. |
| <b>LD50 (median lethal dose):</b>        | N/A   |

|                        |                |
|------------------------|----------------|
| Listed NTP Carcinogen: | N/A            |
| INGESTION:             | Can be noxious |

## Section 12. Ecological Information

|                                     |   |
|-------------------------------------|---|
| TOXICITY:                           | Harmful to aquatic life with long lasting effects.  |
| PERSISTENCE / DEGRADABILITY:        | No data is available on the degradability of this product.  |
| BIOACCUMULATION POTENTIAL:          | No information available.   |
| RESULTS OF PBT AND vPvB ASSESSMENT: | No information available.   |
| MOBILITY IN SOIL:                   | No information available.   |
| OTHER ADVERSE EFFECTS:              | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |

## Section 13. Disposal Considerations

|                         |   |
|-------------------------|---|
| Disposal Containers:    | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.  |
| Waste Disposal:         | Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Special Considerations: | Dispose of spill containment material in accordance with Federal, State, and local laws.  |

## Section 14. Transport Information

|                         |                                       |
|-------------------------|---------------------------------------|
| UN Number:              | UN 1197                               |
| UN Shipping Name:       | Extracts, liquid for flavour or aroma |
| Transport Hazard Class: | 3                                     |
| Packing Group Number:   | III                                   |
| Stowage and Handling:   | N/A                                   |

## Section 15. Regulatory Information

|                      |     |
|----------------------|-----|
| Product Regulations: | N/A |
|----------------------|-----|

## Section 16. Other Information

|               |          |                       |
|---------------|----------|-----------------------|
| Last Revised: | 3/6/2023 | Initial of Editor: JV |
|---------------|----------|-----------------------|

*This information is provided for documentation purposes only.*

*The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and regulations remains the responsibility of the user.*

*This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers.*

*Certificate Of Analysis Sheet*  
**BLUE TANSY ESSENTIAL OIL - Product No: 436**  
*TANACETUM ANNUUM LINNAEUS*

|   |                           |
|---|---------------------------|
| LNP Ref#: 10340   | Production Date: 10-03-21 |
| Botanical Origin: MOROCCO   | Lot#: EX2728/ABD          |
| <b>Product Information</b>  |                           |
| Extraction Method: STEAM DISTILLED  | Parts Used: LEAF          |
| Quality: 100% PURE & NATURAL  | Cultivation: WILDCRAFTED  |
| Shelf Life: 2 YEARS FROM OPENING  |                           |
| <b>Analysis Specifications</b>  |                           |
| <div>=====</div> <div>PHYSICAL DATA</div> <div>=====</div> <div>Aspect: Dark blue opaque mobile liquid</div> <div>Odor: Powerful camphoraceous and characteristic</div> <div>Density at 20øC: 0.9053</div> <div>Optical rotation at 20øC: Non measurable</div> <div>Refraction index at 20øC: 1.5070</div> <div>=====</div> <div>CHROMATOGRAPHIC PROFILE (relatives %)</div> <div>=====</div> <div>a-thujone: 0.45</div> <div>a-pinene: 3.0</div> <div>camphene: 0.99</div> <div>sabinene: 20.5</div> <div>b-pinene: 6.9</div> <div>myrcene: 5.9</div> <div>a-phellandrene: 6.3</div> <div>a-terpinene: 1.2</div> <div>p-cymene: 5.4</div> <div>cineole-1,8: 0.58</div> |                           |

b-phellandrene: 0.48  
limonene: 2.4  
γ-terpinene: 2.0  
terpinolene: 0.66  
camphor: 9.9  
borneol: 1.9  
terpinen-4-ol: 2.0  
(e) β-caryophyllene: 1.8  
α-humulene: 0.92  
germacrene d: 1.2  
β-selinene: 0.25  
α-farnesene: 5.4  
γ-cadinene: 0.95  
oxyde (e) β-caryophyllene: 0.25  
chamazulene: 9.3