

## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION

Product Name: TEA TREE OIL

Botanical Name: *Melaleuca alternifolia*

Supplier: AROMALAB CO., LTD

#506, U-TOWER 767, Sinsu-ro, Suji-gu, Yongin-si, Gyeonggi-do, South Korea

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### 2. HAZARDS IDENTIFICATION

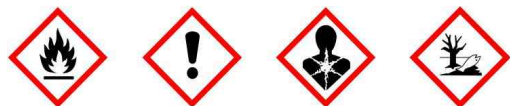
**UN Proper Shipping Name:** TERPENE HYDROCARBON, N.O.S. (Tea Tree Oil)

**UN Number:** 2319

**UN Packing Group:** III

**GHS Classification:** Flammable liquids 3, Acute toxicity 4 Acute inhalation 4, Skin irritation 2, Aspiration toxicity 1, Aquatic chronic 2. [1]

**GHS Signal word:**



Danger [1]

**Hazard Statements:** **H226** Flammable liquid and vapour, **H302** Harmful if swallowed  
**H304** May be fatal if swallowed and enters airways, **H315** Causes skin irritation, **H332** Harmful if inhaled, **H411** Toxic to aquatic life with long lasting effects. [1]

### GHS Precautionary Statements [1]

**Prevention:** P210, P233, P235, P240, P241, P242, P243, P261, P264, P270, P280, P280, P353, P361  
**Response:** P301, P302, P303, P304, P310, P312, P313, P321, P330, P331, P332, P340, P352, P353, P361, P362, P364, P370, P378, P391, P403  
**Storage:** P235, P403, P405  
**Disposal:** P501

### 3. COMPOSITION

Ingredients: Tea Tree Oil 100%

CAS NO: 85085-48-9 or 68647-73-4

Main Ingredient: 4-Terpinenol (Cas No: 562-74-3) < 60%

INCI NAME: Melaleuca Alternifolia Leaf Oil / 티트리잎오일

Recommended Product Use: Cosmetic and aromatherapy ingredient.

#### 4. FIRST AID MEASURES

**Inhalation:** First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

**Skin Contact:** Irritation is unlikely. However, if irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed.

**Eye Contact:** Flush the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes while holding the eyelid(s) open.

**Ingestion:** First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

#### 5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Dry agent, carbon dioxide, foam or water fog. Do not use full water jet.

Hazards from combustion products: May evolve toxic gases (hydrocarbons, carbon oxides) if burning.

Precautions and special protective equipment: Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus when combating fire. Use waterfog to cool intact containers and nearby storage areas.

Hazchem code: 3[Y]

#### 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS : Avoid all contact with eyes and mucous, concentrated extracts should not be swallowed.

ENVIRONNEMENTAL PRECAUTIONS : Don't throw it in sewer nor in natural environment.

METHODS FOR CLEANING-UP : Wash with plenty of water after complete elimination of the product.

#### 7. HANDLING AND STORAGE

HANDLING : Avoid contact with eyes and mucous.

STORAGE : Keep away from humidity in a fresh place. Keep container closed after using.

#### 8. EXPOSURE CONTROLS AND PERSONAL PROTECIOTN

RESPIRATORY PROTECTION : Assure a good ventilation of work place.

HAND PROTECTION : Plastic or synthetic rubber impermeable gloves.

**EYE PROTECTION :** Goggles giving complete protection to eyes. Eyewash bottle with clean water.

**SKIN AND BODY PROTECTION :** Wear clothing as usual in chemical industry, remove contaminated clothes. After contact with skin, wash immediately with: Water and soap.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear colorless to pale yellow liquid
<b>Colour:</b>	Characteristic
<b>Odor:</b>	Characteristic
<b>Relative density at 20°C</b>	0.880 - 0.910
<b>pH of product:</b>	Not applicable
<b>Flash point (°C):</b>	< 60°C (closed cup)
<b>Boiling point:</b>	Not data
<b>Freezing point:</b>	Not data
<b>Vapor pressure:</b>	Not data
<b>Ether value:</b>	Not data
<b>Explosion limits:</b>	Not data
<b>Coeff Oil/water distribution:</b>	No data
<b>Autoignition temp:</b>	No data.

## 10. STABILITY AND REACTIVITY

**Reactivity:** This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

**Conditions to Avoid:** This product should be kept in a cool place, preferably below 30°C. Containers should be kept dry. Keep away from sources of sparks or ignition.

**Incompatibilities:** strong acids, strong oxidising agents, strong reducing agents, porous materials such as zeolites and similar mineral products, rags.

**Polymerisation:** This product is unlikely to undergo polymerisation processes.

## 11. TOXICOLOGICAL INFORMATION

**EYE CONTACT :** Can induce irritations.

**INHALATION :** No specific hazard in normal use.

**INGESTION :** Can be noxious.

**SKIN CONTACT** Can induce irritations.

## 12. ECOLOGICAL INFORMATION

All work practices must be aimed at eliminating environmental contamination

Environmental Toxicity: Not acutely toxic to fish  $LC_{50} > 100$  mg/L (OECD 203)

Environmental Fate: May cause adverse side effects in an aquatic environment, biodegradable in seawater

Persistence and Degradability: This product is readily biodegradable (OECD 301F) Error! Reference source not found.

Mobility in Soil: No data available

Other Adverse Effects: None known

### 13. DISPOSAL CONSIDERATIONS

Throwing out forbidden. Packaging must be well emptied

### 14. TRANSPORT INFORMATION

UN number: 2319

UN proper shipping name: TERPENE HYDROCARBONS, N.O.S.

Un Packing group: III

ADG proper shipping name: Not listed in Australian Dangerous Goods code

Class and subsidiary risk(s): Class 3. No subsidiary risks listed.

Hazchem: 3 [Y]

EPG: 3A1

Special precautions for user: Classified as dangerous goods for the purpose of transport by road or rail.

Class 3 Flammable Liquid. Do not transport with chemicals of class ; 1 (Explosives), 2.1/2.3 (Flammable/Toxic gases), 4.2 (Spontaneously combustibles), 5.1 (Oxidising agents), 5.2 (Organic peroxides), 6 (Toxics), 7 (Radioactives) and foodstuffs.

### 15. REGULATORY INFORMATION

**AICS:** This material is listed on the Australian Inventory of Chemical substances.

**EINECS:** This material is listed on the European Inventory of Existing Commercial Substances.

### 16. OTHER INFORMATION

This MSDS contains only safety-related information. For other data see product literature.