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

1.1 Product Identifier:
   Trade Name: Alpha Bisabolol Natural
   INCI Name: Bisabolol

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:
   Product Use: Active ingredient in cosmetic and personal care applications

1.3 Details of the Supplier of the Safety Data Sheet:
   Manufacturer: TRI-K INDUSTRIES, INC.
   2 Stewart Court
   Denville, NJ 07834
   Information Phone Number: +1 (973) 298-8850
   E-mail: info@tri-k.com

1.4 Emergency Telephone Number:
   Emergency Spill Information
   +1 (973) 298-8850 (TRI-K Industries, Inc.)
   +1 (800) 222-1222 (National Poison Control Center)

24-HOUR EMERGENCY TELEPHONE NUMBER
   CHEMTREC +1 (800) 424-9300 or +1 (703) 527-3887

SDS Date of Preparation: June 4, 2015

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Signal word: Warning

H411 Toxic to aquatic life with long lasting effects
P273 Avoid release to the environment
P391 Collect Spillage
2.2 Label Elements: Labeling according to Regulation 67/548/EC
R51/53 Toxic to organisms, may cause long-term adverse effects in the aquatic environment.
S29 Do not empty into drains.
S37/39 Wear suitable gloves and eye / face protection
S61 Avoid release to the environment. Refer to special instructions / Material Safety Data Sheets

2.3 Other Hazards: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>EINECS#</th>
<th>DSD Classification (67/548/EEC)</th>
<th>CLP Classification (EC) No 1272/2008</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisabolol</td>
<td>23089-26-1</td>
<td>245-423-3</td>
<td>R51/53; S29; S37/39; S61</td>
<td>H411; P273; P391</td>
<td>~100</td>
</tr>
</tbody>
</table>

Additional information: For full text of H-statements and R-phrases: see SECTION 16

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures:
Eye Contact: If wearing contact lenses, remove them. Wash eyes with plenty of clean, cool water for at least 10 minutes while pulling eyelids up. Seek medical assistance.
Skin Contact: Remove contaminated clothing and wash skin with soap and water for at least 15 minutes.
Inhalation: Remove person to fresh air and keep them warm and calm. If breathing is irregular or stops, perform artificial respiration. Do not administer anything oral. If unconscious, place them in a suitable position and seek medical assistance.
Ingestion: If ingested, look for immediate medical attention.

4.2 Indication of any immediate medical attention and special treatment needed:
In case of doubt or if symptoms persist, call a doctor. Never administer medicine to unconscious people.
SAFETY DATA SHEET
Alpha Bisabolol Natural

SECTION 5: FIRE FIGHTING MEASURES

5.1 Suitable Extinguishing Media:
Dry chemical, CO₂, or foam. Do not use a direct stream of water to extinguish.

5.2 Special Hazards Arising from the Substance or Mixture:
   Unusual Fire and Explosion Hazards: Fire can cause thick, black smoke.
   Hazardous Decomposition Products: As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

5.3 Advice for Fire-Fighters:
   Special Fire Fighting Procedures:
   According to the size of the fire, it may be necessary to use protective suits against the heat; individual breathing equipment; gloves; protective goggles; and/or facemasks. Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:
Eliminate possible ignition points and ventilate the area. Avoid breathing fumes. Use chemical safety goggles for eye/face protection.

6.2 Environmental Precautions:
   Prevent the contamination of drains, surface or subterranean waters, and the ground. In case of large spills or if the product contaminates lakes, rivers, or sewers, inform the responsible authorities according to local legislation.

6.3 Methods and Material for Containment and Cleaning Up:
   Pick up the spill with non-combustible absorbent materials (soil, sand, vermiculite, diatomite, etc.). Store the product and the absorbent in an appropriate container. The contaminated area should be immediately cleaned.

6.4 Reference to Other Sections:
   Refer to Section 8 for protective equipment and Section 13 for disposal considerations
SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling:
Keep the container tightly closed and isolated from heat sources, sparks, and fire. Prevent the material from getting in contact with the skin or eyes. For personal protection, see section 8. In the work area, smoking, eating, and drinking must be prohibited. Follow legislation on occupational health and safety. Keep the product in containers made of a material identical to the original packaging.

7.2 Conditions for Safe Storage, Including any Incompatibilities:
Store according to local legislation. Observe indications on the label. Store the containers in a dry and well-ventilated place far from sources of heat and direct sunlight. Keep far away from ignition points. Keep away from oxidizing agents and from highly acidic or alkaline materials. Prevent the entry of non-authorized persons. Once containers are open, they must be carefully closed and placed vertically to prevent spills.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>8.1.1 Occupational Exposure Limits:</th>
<th>8.1.2 Additional exposure limits under the conditions of use:</th>
<th>8.1.3 DNEL/DMEL and PNEC-Values:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisabolol</td>
<td>No limits established</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

8.2 Exposure Controls:

8.2.1 Appropriate Engineering Controls: General mechanical ventilation is acceptable

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection: Chemical safety goggles
Hand Protection: Resistant gloves
Body Protection: Appropriate laboratory clothing
Respiratory Protection: Approved respirator
Thermal Hazards: Keep away from heat and open flame
Other: Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Keep containers closed and store them in a cool dry play.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear, oily, limpid yellowish liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Woody, floral, sweetish</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>Not determined</td>
</tr>
<tr>
<td>Melting Point / freezing point</td>
<td>&lt; 15 °C</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>125.5 °C @ 702 mmHg</td>
</tr>
<tr>
<td>Flash Point (COC)</td>
<td>&gt; 250 °C</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.921 – 0.929 @ 25 °C</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>n-octanol/water: &gt; 3</td>
</tr>
<tr>
<td>Viscosity (cP)</td>
<td>128 cPs (Brookfield)</td>
</tr>
<tr>
<td>Refractive Index</td>
<td>1.4930 – 14970 @ 25 °C</td>
</tr>
<tr>
<td>Optical Rotation</td>
<td>-58° – -55°</td>
</tr>
</tbody>
</table>

9.2 Other Information:
None

SECTION 10: STABILITY AND REACTIVITY

10.1 Chemical Stability:
Stable under the recommended handling and storage conditions

10.2 Incompatible Materials:
Strong oxidizing agents, strong acids, acid chlorides, acid anhydrides

10.3 Hazardous Decomposition Products:
Carbon monoxide and carbon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:
- Acute toxicity: Oral LD50 (rat) is >5g/kg
- Irritation: Not Available
- Corrosivity: Not Available
- Sensitization: Not Available
- Repeated dose toxicity: No data available
- Carcinogenicity: Not Available
- Mutagenicity: Not Available
Toxicity for reproduction: Not Available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:
- *Daphnia magna (Water flea):* EC50 = 1.3 mg/L (OECD 202)
- *Leuciscus idus (Golden orfe):* LC50 > 4.6 – 10 mg/L/96 h
- *Pseudomonas putida:*

12.2 Persistence and Degradability:
Readily biodegradable: 70 - 80% / 28d (OECD 301F)

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:
Dumping into sewers or waterways is prohibited. Waste and empty containers must be handled and eliminated according to current local/national legislation.

SECTION 14: TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>14.1 UN Number</th>
<th>US DOT</th>
<th>EU land transport (ADR/RID/ADN)</th>
<th>Sea Transport (IMDG)</th>
<th>Air Transport (ICAO/IATA)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3082</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, Liquid, N.O.S. Alpha Bisabolol</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, Liquid, N.O.S. Alpha Bisabolol isabolol</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, Liquid, N.O.S. Alpha Bisabolol</td>
</tr>
<tr>
<td>14.2 UN Proper Shipping Name</td>
<td>3082</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, Liquid, N.O.S. Alpha Bisabolol</td>
<td>9</td>
<td>9</td>
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<tr>
<td>14.3 Transport Hazard Class(s)</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, Liquid, N.O.S. Alpha Bisabolol</td>
<td>9</td>
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<tr>
<td>14.4 Packing Group</td>
<td>9</td>
<td>III</td>
<td>III</td>
<td></td>
</tr>
<tr>
<td>14.5 Environmental Hazards</td>
<td>III</td>
<td>9</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>14.6</td>
<td>9</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>
SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environment Regulations/Legislation Specific for the Substance or Mixture:

<table>
<thead>
<tr>
<th>EU EINECS/ELINCS/NLP:</th>
<th>Listed on the EINECS Inventory.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada DSL/NDSL:</td>
<td>Listed on DSL</td>
</tr>
<tr>
<td>US TSCA</td>
<td>Not listed</td>
</tr>
<tr>
<td>Korea KECI:</td>
<td>Not listed</td>
</tr>
<tr>
<td>China IECSC:</td>
<td>Listed on the IECSC.</td>
</tr>
<tr>
<td>Japan ENCS:</td>
<td>Listed on the Japanese Existing and New Chemical Substances Inventory.</td>
</tr>
<tr>
<td>Philippine PICCS:</td>
<td>Listed on the PICCS</td>
</tr>
<tr>
<td>Australia AICS:</td>
<td>Listed on the AICS</td>
</tr>
</tbody>
</table>

SECTION 16: OTHER INFORMATION

16.1 Indication of Changes
Version 1 created on June 4, 2015

16.2 List of Relevant H- and R- phrases (number and full text):
H411 Toxic to aquatic life with long lasting effects
R51/53 – Toxic to organisms, may cause long-term adverse effects in the aquatic environment.

16.3 Legal Disclaimer
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SAFETY DATA SHEET
Alpha Bisabolol Natural