SECTION 1. IDENTIFICATION

Product Name/Identifier: Phyto-Biotics Perilla®
Product Code: 40600

Recommended Use: Topical Cosmetic Use
Restrictions on Use: None

Supplier/Manufacturing Site: Active Concepts, LLC
Address: 107 Technology Drive
Lincolnton, NC 28092, USA

Telephone No. (24hrs): 1-704-276-7100
Fax No.: 1-704-276-7101

Emergency Telephone #: 1-704-276-7100 (Mon-Fri: 8:00AM – 5:00PM EST)

SECTION 2. HAZARD(S) IDENTIFICATION

Classification:

GHS / CLP
Basis for Classification: Based on present data no classification and labeling is required according to GHS, taking into account the national implementation (United Nations version 2011)

USA
OSHA Regulatory Status: This material is non-hazardous as defined by the American OSHA Hazard Communication Standard (29 CFR 1910.1200).

Europe
Basis for Classification: -According to present data no classification and labeling is required according to Directives 67/548/EEC or 1999/45/EC.
-This product is not classified as hazardous to health or environment according to the CLP regulation.

Labeling Elements:

Pictograph: No hazard symbol expected
Hazard statements/Signal Word: Not applicable
Precautionary statements: P233: Keep container tightly closed
P281: Use personal protective equipment as required
P402: Store in a dry place
P404: Store in a closed container
P410: Protect from sunlight
P411: Store at temperatures not exceeding 25°C

This information is presented in good faith but is not warranted as to accuracy of results. Also, freedom from patent infringement is not implied. This information is offered solely for your investigation, verification, and consideration.
Other hazards which do not result in classification:

No particular fire or explosion hazard.
By mechanical effect: No particular hazards.
By hydrosopic effect: No particular hazards.

US NFPA 704 (National Fire Protection Association) Hazard Rating System:

Health hazard: Rating 0; Normal Material
Flamibility: Rating 0, Will Not Burn
Reactivity: Rating 0, Stable
Other Hazard Information: None

Results of PBT and vPvB assessment:

- PBT: Not applicable
- vPvB: Not applicable

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Chemical Name: Perilla Frutescens Extract

Generic name:

Chemical Family: Extract

Description: Mixture: consisting of the following components. This section describes all components of the mixture

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Numbers</th>
<th>EC Numbers</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perilla Frutescens Extract</td>
<td>90082-61-4</td>
<td>290-151-0</td>
<td>98.00%</td>
</tr>
<tr>
<td>Lactobacillus Ferment</td>
<td>1686112-36-6 (or)</td>
<td>N/A (or) N/A</td>
<td>2.00%</td>
</tr>
</tbody>
</table>

Formula: Not applicable

SECTION 4. FIRST-AID MEASURES

General: In all cases of doubt, or when symptoms persist, seek medical attention.

Inhalation: Move to fresh air from exposure area. Get medical attention for any breathing difficulty.

Skin contact: Rinse with soap and water. Get medical advice if irritation develops.

Eye contact: Immediately rinse with plenty of water for at least 15 minutes, while keeping the eyes wide open. Consult with a physician.
### Ingestion:
Consult with a physician.

### Protection of first-aiders:
No special protection required.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Fire and explosion hazards:
Not considered to be a fire and explosion hazard

#### Extinguishing media:

<table>
<thead>
<tr>
<th>Suitable</th>
<th>Water, dry chemicals, foam and carbon dioxide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not suitable</td>
<td>None known</td>
</tr>
</tbody>
</table>

**Fire fighting:**
- Move container from fire area if it can be done without risk.
- Avoid inhalation of material or combustion by-products.
- Stay upwind and keep out of low area

#### Protection for fire-fighters:
Boots, gloves, goggles.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions:
Avoid contact with eyes.
- Personal Protective Equipment:
  - Protective goggles

#### Environmental precautions:
Prevent entry into sewers and waterways. Do not allow material to contaminate ground water system

#### Methods for cleaning up:

<table>
<thead>
<tr>
<th>Recovery</th>
<th>Pick up free liquid for recycling or disposal. Residual liquid can be absorbed on an inert material.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cleaning/Decontamination</td>
<td>Wash non-recoverable remainder with water.</td>
</tr>
<tr>
<td>Disposal</td>
<td>For disposal of residues refer to sections 8 &amp; 13.</td>
</tr>
</tbody>
</table>

### SECTION 7. HANDLING AND STORAGE

#### Handling

<table>
<thead>
<tr>
<th>Technical measures</th>
<th>Labeling: Keep out of the reach of children.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measures</td>
<td>For industrial use, only as directed.</td>
</tr>
<tr>
<td>Safe handling advice</td>
<td>Wash hands after use. Avoid storage near feed or food stuff.</td>
</tr>
</tbody>
</table>
Storage
Technical measures: Keep container closed.
Recommended Storage Conditions: Store in a cool, dry place. This material must be stored at room temperature (23 - 25°C). It should not be exposed to excessive heat or cold. Do not freeze.

Incompatible products: Avoid contact with strong oxidizers.
Refer to the detailed list of incompatible materials (Section 10 Stability/Reactivity)

Packaging:
Packaging materials: Product may be packaged in normal commercial packaging.
Recommended - Polypropylene & High Density Polyethylene

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary statements: Ensure adequate ventilation

Control parameters

Occupational exposure Limits:

France: Not Determined
ACGIH: Not Determined
Korea: Not Determined
UK: Not Determined

Surveillance procedures: Not Determined
Engineering measures: Not Determined

Personal Protective Equipment:

Respiratory protection: Local exhaust
Hand protection: Protective gloves made of rubber or neoprene.
Eye protection: Safety glasses.
Collective emergency equipment: Eye fountain.
Skin and Body Protection: Suitable protective clothing
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Measures related to the Environment: No particular measures.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear to slightly hazy liquid
Gardner Color: 7 Maximum
Odor: Characteristic
pH: 3.5 – 5.5
Rosmarinic Acid Content: 0.2% Minimum

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Phyto-Biotics Perilla®

Date: 03 / 16 / 2018
Version: 8
Cancels and replaces version: 7

Heavy Metals: < 20 ppm
Lead: < 10 ppm
Arsenic: < 2 ppm
Cadmium: < 1 ppm

Microbial Content: < 100 CFU/g ; No pathogens
Yeast & Mold: < 100 CFU/g
Gram Negative Bacteria: 0 CFU/g

Specific Gravity: Not determined
Vapor density: Not applicable
Boiling Point: Not determined
Freezing Point: Not determined
Melting point: Not applicable
Flash point: > 200°F
Oxidizing properties: Non oxidizing material according to EC criteria.

Solubility:
In water: Soluble
In organic solvents: Not determined
Log P: Not determined

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage up to one year then re-test to full product specifications to extend shelf life
Hazardous reactions: None known
Conditions to avoid: No dangerous reactions known under use of normal conditions. Avoid extreme heat.
Materials to avoid: No dangerous reaction known with common products.
Hazardous decomposition products: None known

SECTION 11. TOXICOLOGICAL INFORMATION

Ingestion: Not Determined
Dermal: Non-Irritant (Dermal Irritation Model)
Ocular: Non-Irritant (Ocular Irritation Model)
Inhalation: Not Determined

Acute toxicity data: EC50 (Acute Daphnia): 700.45 mg/L - Not harmful to aquatic organisms
**Phyto-Biotics Perilla®**

Date: 03 / 16 / 2018  
Version: 8  
Cancels and replaces version: 7

**Sensitization:**  
Non-Primary Sensitizer; Will not cause allergic contact dermatitis (In Chemico Skin Sensitization Direct Peptide Reactivity Assay & In Vitro Skin Sensitization ARE-Nrf2 Luciferase Test Method)

**Repeated dose toxicity:**  
No known effects

**Subacute to chronic toxicity:**  
Not Determined

**Mutagenicity:**  
Non-Mutagenic (OECD471/ISO10993. Part 3 – Genotoxicity: Bacterial Reverse Mutation Test)

**Additional Toxicological Information:**  
This product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

**Specific effects:**

- **Carcinogenicity:**  
  No known effects

- **Mutagenicity:**  
  No known effects

- **Reproductive toxicity:**  
  No known effects

- **Neuro-toxicity:**  
  No known effects

**For more information:**  
Does not present any particular risk on handling under normal conditions of good occupational hygiene practice.

This product has not been tested for the following:

- Primary cutaneous and corrosive irritation
- Acute oral toxicity

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

- **Effects on the aquatic environment:**  
  Not Determined

**Biodegradability:**

- **Persistence:**  
  Readily Biodegradable (86.25% biodegradation after 28 days of testing)

**Bioaccumulation:**

- **Octanol / water partition coefficient:**  
  Not Determined

**Mobility:**

- **Precipitation:**  
  Ultimate destination of the product: Soil & sediment.

**Other Adverse Effects:**  
None known

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SECTION 13. DISPOSAL CONSIDERATIONS

Residues from product
Prohibition: Do not allow the product to be released into the Environment.
Destruction/Disposal: Dispose of in accordance with relevant local regulations

Contaminated packaging
Decontamination/cleaning: Cleaning is not required prior to disposal.
Destruction/Disposal: Note: Take all necessary precautions when disposing of this product according to local regulations.

SECTION 14. TRANSPORT INFORMATION

UN Number: None
UN Shipping Name: None
Transport Hazard Class: Not classified as dangerous for transport

Land (rail/road): Material is not restrictive for land transport and is not regulated by ADR/RID
Sea: Material is not restrictive for sea transport and is not regulated by IMO/IMDG
Air: Material is not restrictive for land transport and is not regulated by ICA/IATA

Marine Pollutant: No
Transport/Additional Information: Not regulated for US DOT Transport in non-bulk containers
This material is not dangerous or hazardous

Special Precautions for User: None known

The above regulatory prescriptions are those valid on the date of publication of this sheet. However, given the possible evolution of transport regulations for hazardous materials and in the event of the MSDS in your possession dating back more than 12 months, it is advisable to check their validity with your sales office.

SECTION 15. REGULATORY INFORMATION

Labeling:
EC regulations: This product does not need to be labeled in accordance with EC Directives or respective national laws

Further regulations
United Kingdom: Handle in accordance with relevant British regulation: control of substance Hazardous to Health Regulations Environmental Hygiene Guidance: EH40 Workplace Exposure Limits (revised annually)
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**Phyto-Biotics Perilla®**

**Korea regulations:**
- Industrial safety and hygiene regulation: No
- Hazardous material control regulation: No
- Fire prevention regulation: No

**Other regulations:**

**EINECS inventory status:** Perilla Frutescens Extract: 290-151-0

**TSCA inventory status:** Exempt

**AICS inventory status:**
- Not Listed: 1686112-36-6
- Listed: 90082-61-4 & 68333-16-4

**Canadian (CEPA DSL) inventory status:**
- Exempt: Perilla Frutescens Extract (90082-61-4)
- Not Listed: Lactobacillus Ferment (1686112-36-6)
- Listed as Lactobacillus acidophilus (Revised ICL)

**Japan (MITI list):**
- Perilla Frutescens Extract** & Lactobacillus Ferment

**Korea:**
- Perilla Frutescens Extract^ & Lactobacillus Ferment

**China inventory status:**
- Perilla Frutescens Extract & Lactobacillus Ferment

**Philippines inventory status:**
- Not Listed: Lactobacillus Ferment (1686112-36-6 (or) 68333-16-4)
- Listed as Perilla frutescens, ext.

*Listed on 2010 INCI Standard Chinese Name Directory

**Not listed on Cosmetic-Info database (or) on Restricted List

^Not listed in 2004 CTFA Dictionary – Registered with Personal Care Products Council

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the products described in this sheet. The user’s attention is drawn to the possible existence of additional provision which complete these regulations. Please refer to all applicable international, national and local regulations and provisions

### SECTION 16. OTHER INFORMATION

**Prohibited uses:** For specific uses, food industry, ask the manufacturer for more information.

**Last Revision Date:** 09/01/2016

**Preparation Date:** 03/16/2018

**MSDS summary of changes**
- Added Heavy Metals & Arsenic – Section 9 (Physical & Chemical Properties)
- Updated Transport Information – Section 14 (Transport Information)
- Added Trademark Symbol to Tradename
- Updated Trademark Symbol – Section 1 (Identification)
- Updated CAS/EINEC#’s – Section 3 (Composition / Information on Ingredients) & Section 15 (Regulatory Information), Added Sensitization & Mutagenicity Data – Section 11 (Toxicological Information) & Added Biodegradability Data – Section 12 (Ecological Information)
- Added Acute Toxicity Data – Section 11 (Toxicological Information)
- Updated CAS/EINEC#’s – Section 3 (Composition / Information on Ingredients) & Section 15 (Regulatory Information), Added Lead & Cadmium & Updated Microbial Content – Section 9 (Physical & Chemical Properties)
Phyto-Biotics Perilla®

Date: 03 / 16 / 2018  Version: 8  Cancels and replaces version: 7

The information given is based on our knowledge of this product, at the time of publication in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than which it was intended. This is not in any way excuse the user from knowing and applying all the regulations governing their activity. It is sole responsibility of the user to take all precautions required in handling the product. The purpose of mandatory regulation mentioned is to help the user to fulfill his obligations regarding the use of products. This information is not exhaustive, this is not exonerate the user from ensuring that legal obligations other than those mentioned, relating to the use and storage.