

# Safety Data Sheet (8% WSP)

According to Federal Register | Vol. 77, No. 58 | Rules and Regulations

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

### 1.1 IDENTIFICATION

|                     |                                  |
|---------------------|----------------------------------|
| CATEGORY            | Water Soluble Powder (WSP) - BDS |
| CAS#                | Not Applicable                   |
| SUBSTANCE / MIXTURE | Mixture                          |

### 1.2 INTENDED USE AND ADVISED AGAINST USE OF THE SUBSTANCE OR MIXTURE

|                     |  |
|---------------------|--|
| Intended Use        | Concentrated powder ingredients to be used for aroma & flavoring, GRAS food grade & supplement manufacturing, water-based foods & beverages. |
| Advised Against Use | The products should not be used in ways other than those listed above.   |

### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Lab Effects, LLC  
 741 Corporate Cir  
 Golden, CO 80401 USA  
 1.720.524.6369  
 info@labeffects.com | www.labeffects.com

### 1.4 EMERGENCY CONTACT NUMBER

CHEMTREC  
 USA: 800.424.9300  
 International: +1.703.527.3887

## SECTION 2: HAZARDS IDENTIFICATION

### 2.2 GHS LABEL ELEMENTS INCLUDING PRECAUTIONARY STATEMENTS

This profile contains some or all the following precautionary and/or hazard statements.

|                   |  |
|-------------------|--|
| Hazard Pictograms |      |
|                   | GHS02    GHS07    GHS08    GHS09    GHS05  |

|             |         |
|-------------|---------|
| Signal Word | Warning |
|-------------|---------|

|                   |  |
|-------------------|--|
| Hazard Statements | H302 – Harmful if swallowed<br>H304 – May be fatal if swallowed and enters airways<br>H315 – Causes skin irritation<br>H317 – May cause an allergic skin reaction<br>H318 – Causes serious eye damage<br>H335 – May cause respiratory irritation<br>H400 – Very toxic to aquatic life<br>H402 – Harmful to aquatic life<br>H410 – Very toxic to aquatic life with long lasting effects<br>H411 – Toxic to aquatic life with long lasting effects |
|-------------------|--|

|                          |   |
|--------------------------|---|
| Precautionary Statements | P210 – Keep away from heat, hot surface, sparks, open flames, and other ignition sources. - No smoking.<br>P233 – Keep container tightly closed.<br>P240 – Ground/bond container and receiving equipment. |
|--------------------------|---|

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|                                   |   |
|-----------------------------------|---|
| Response Precautionary Statements | <p>P241 – Use explosion-proof electrical and lighting equipment.<br/>         P242 – Use only non-sparking tools.<br/>         P243 – Take precautionary measures against static discharge.<br/>         P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.<br/>         P264 – Wash hands thoroughly after handling.<br/>         P270 – Do not eat, drink, or smoke when using this product.<br/>         P271 – Use only outdoors or in a well-ventilated area.<br/>         P272 – Contaminated work clothing should not be allowed out of the workplace.<br/>         P273 – Avoid release to the environment.<br/>         P280 – Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P310 – Immediately call a POISON CENTER or doctor/physician.<br/>         P312 – Call a POISON CENTER or doctor/physician if you feel unwell.<br/>         P321 – Specific treatment (see supplemental first aid instructions on this label).<br/>         P331 – Do NOT induce vomiting.<br/>         P362 – Take off contaminated clothing.<br/>         P363 – Wash contaminated clothing before reuse.<br/>         P301+P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.<br/>         P302+P352 – IF ON SKIN: wash with plenty of water.<br/>         P303+P361+P353 – IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water or shower.<br/>         P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br/>         P332+P313 – IF SKIN irritation occurs: Get medical advice/attention.<br/>         P333+P313 – IF SKIN irritation or rash occurs: Get medical advice/attention.<br/>         P362+P364 – Take off contaminated clothing and wash it before reuse.<br/>         P370+P378 – In case of fire: Use media other than water to extinguish.<br/>         P391 – Collect spillage.</p> |
| Storage Precautionary Statements  | <p>P405 – Store locked up.<br/>         P403+P233 – Store in a well-ventilated place. Keep container tightly closed.<br/>         P403+P235 – Store in a well-ventilated place. Keep cool.<br/>         P501 – Dispose in a safe manner in accordance with local/national regulations.</p>  |

## 2.3 HAZARDS NOT OTHERWISE CLASSIFIED (HNOC) OR NOT COVERED BY GHS

No additional information available

## 2.4 UNKNOWN ACUTE TOXICITY (GHS US)

Not applicable

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product will contain two or more of the listed ingredients under Section 3.2

### 3.1 SUBSTANCES

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Not Applicable

## 3.2 MIXTURES

| Name   | CAS#           | MOLECULAR FORMULA                               |
|--|----------------|---|
| Mannitol   | 69-65-8        | C <sub>6</sub> H <sub>14</sub> O <sub>6</sub>   |
| Tapioca Starch   | 9057-07-2      | C <sub>27</sub> H <sub>48</sub> O <sub>20</sub> |
| Natural Gras Solubilizers (Proprietary modified multi-layered vegetable oil) | Not Applicable | Not Applicable                                  |
| Alpha Fenchone   | 4695-62-9      | C <sub>10</sub> H <sub>16</sub> O               |
| Alpha Phellandrene   | 99-983-2       | C <sub>10</sub> H <sub>16</sub>                 |
| Alpha Pinene   | 80-56-8        | C <sub>10</sub> H <sub>16</sub>                 |
| Alpha Terpinene  | 99-86-5        | C <sub>10</sub> H <sub>16</sub>                 |
| Alpha Terpineol  | 99-55-5        | C <sub>10</sub> H <sub>18</sub> O               |
| Beta Caryophyllene   | 87-44-5        | C <sub>15</sub> H <sub>24</sub>                 |
| Beta Pinene  | 127-91-3       | C <sub>10</sub> H <sub>16</sub>                 |
| Bisabolene   | 495-62-5       | C <sub>15</sub> H <sub>24</sub>                 |
| Borneol  | 507-70-0       | C <sub>10</sub> H <sub>18</sub> O               |
| Camphene   | 79-92-5        | C <sub>10</sub> H <sub>16</sub>                 |
| Caryophyllene Oxide  | 1139-30-6      | C <sub>15</sub> H <sub>24</sub> O               |
| Citronellol 80   | 106-22-9       | C <sub>10</sub> H <sub>20</sub> O               |
| Delta 3 Carene   | 13466-78-9     | C <sub>10</sub> H <sub>16</sub>                 |
| Eucalyptol   | 470-82-6       | C <sub>10</sub> H <sub>18</sub> O               |
| Gamma Terpinene  | 99-85-4        | C <sub>10</sub> H <sub>16</sub>                 |
| Geraniol 60  | 106-24-1       | C <sub>10</sub> H <sub>18</sub> O               |
| Guaiacol   | 90-05-1        | C <sub>7</sub> H <sub>8</sub> O <sub>2</sub>    |
| Humulene   | 6753-98-6      | C <sub>15</sub> H <sub>24</sub>                 |
| Isopulegol   | 89-79-2        | C <sub>10</sub> H <sub>18</sub> O               |
| D-Limonene   | 5989-27-5      | C <sub>10</sub> H <sub>16</sub>                 |
| Linalool   | 78-70-6        | C <sub>10</sub> H <sub>18</sub> O               |
| Myrcene  | 123-35-3       | C <sub>10</sub> H <sub>16</sub>                 |
| Nerolidol  | 7212-44-4      | C <sub>15</sub> H <sub>26</sub> O               |
| Para Cymene  | 99-87-6        | C <sub>10</sub> H <sub>14</sub>                 |
| Phytol   | 150-86-7       | C <sub>20</sub> H <sub>40</sub> O               |
| Sabinene   | 3387-41-5      | C <sub>10</sub> H <sub>16</sub>                 |
| Terpinolene  | 586-62-9       | C <sub>10</sub> H <sub>16</sub>                 |
| Trans β Ocimene  | 3397-61-1      | C <sub>10</sub> H <sub>16</sub>                 |

## SECTION 4: FIRST-AID MEASURES

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## 4.1 DESCRIPTION OF FIRST AID MEASURES

|                         |  |
|-------------------------|--|
| General Advice          | - Move out of dangerous area.  |
| If Inhaled              | - If breathed in, move person into fresh air. If not breathing, give artificial respiration. |
| In Case of Skin Contact | - Wash off with soap and plenty of water.  |
| In Case of Eye Contact  | - Flush eyes with water as a precaution.   |
| If Swallowed            | - Never give anything by mouth to an unconscious person. Rinse mouth with water.             |

## 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS (ACUTE AND DELAYED)

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

## 4.3 IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT, IF NECESSARY

Treat symptomatically.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1 SUITABLE (AND UNSUITABLE) EXTINGUISHING MEDIA

|                              |  |
|------------------------------|--|
| Suitable extinguishing media | Water Spray, Dry Chemical Powder, Dry Powder. Foam, Carbon Dioxide, Sand |
|------------------------------|--|

### 5.2 SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE

No Data Available

### 5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS

|                                |  |
|--------------------------------|--|
| Protection during firefighting | Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent firefighting water from entering environment.<br>Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
|--------------------------------|--|

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

#### 6.1.1. FOR NON-EMERGENCY PERSONNEL

Evacuate Unnecessary Personnel

#### 6.1.2. FOR EMERGENCY RESPONDERS

|                      |   |
|----------------------|---|
| Protective equipment | Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Ventilate the area. |
|----------------------|---|

### 6.2 ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment.

### 6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

|                         |   |
|-------------------------|---|
| Methods for cleaning up | Sweep and dispose.  |
| Other information       | Dispose of materials or solid residues at an authorized site. |

### 6.4 REFERENCE TO OTHER SECTIONS

For further information refer to section 13.

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## SECTION 7: HANDLING AND STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING

|                               |   |
|-------------------------------|---|
| Precautions for safe handling | - Ensure good ventilation of the workstation. Avoid contact with skin and eyes. Wear personal protective equipment. Provide good ventilation in process area to prevent formation of vapor. |
| Hygiene measures              | - Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.  |

### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

|                    |   |
|--------------------|---|
| Storage conditions | Store in a well-ventilated place. Keep cool. Keep lid closed when not in use. Incompatible Products/Materials – strong bases, strong acids, sources of ignition, direct sunlight. |
|--------------------|---|

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 CONTROL PARAMETERS

No additional information available

### 8.2 APPROPRIATE ENGINEERING CONTROLS

|                                       |   |
|---------------------------------------|---|
| General industrial hygiene practices. |   |
| Appropriate engineering controls      | Ensure good ventilation of the workstation. |
| Environmental exposure controls       | Avoid release to the environment.           |

### 8.3 INDIVIDUAL PROTECTION MEASURES/PERSONAL PROTECTIVE EQUIPMENT

|  |   |
|--|---|
| <b>Hand Protection:</b>                  | Protective gloves   |
| <b>Eye Protection:</b>                   | Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH(US) or EN166(EEU).  |
| <b>Skin Protection:</b>                  | Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal techniques (without touching the glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. |
| <b>Body Protection:</b>                  | Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substances at the specific work-place.                        |
| <b>Respiratory Protection:</b>           | Respiratory protection is not required. Where protection from nuisance levels of dust are desired, use type N95(US) or type P1(EN143 dust masks. Use mask tested and approved under appropriate government standards such as NIOSH(US) or CEN(EEU).   |
| <b>Control of Environmental Exposure</b> | Do not let product enter drains.  |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

|                |                    |
|----------------|--------------------|
| Physical State | POWDER             |
| Color          | WHITE TO OFF WHITE |

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|   |                   |
|---|-------------------|
| Odor  | CHARACTERISTIC    |
| Odor Threshold                              | No data available |
| Particle Size                               | <100nm            |
| Terpene Load                                | 8% (80MG / G)     |
| Salmonella SSP                              | NEG / 10G         |
| Yeast & Mold                                | <100 CFU / G      |
| Staphylococcus Aureus                       | NEG / 10G         |
| E.coli                                      | NEG / 10G         |
| pH  | No data available |
| Melting Point                               | No data available |
| Freezing Point                              | No data available |
| Boiling Point                               | No data available |
| Flash Point                                 | No data available |
| Relative Evaporation Rate (butyl acetate=1) | No data available |
| Flammability (solid, gas)                   | Not applicable    |
| Vapor Pressure                              | No data available |
| Relative Vapor Density at 20 °C             | No data available |
| Relative Density                            | No data available |
| Solubility                                  | WATER SOLUBLE     |
| Log Pow                                     | No data available |
| Auto-Ignition Temperature                   | No data available |
| Decomposition Temperature                   | No data available |
| Viscosity, Kinematic                        | No data available |
| Viscosity, Dynamic                          | No data available |
| Explosion Limits                            | No data available |
| Explosive Properties                        | No data available |
| Oxidizing Properties                        | No data available |

## 9.2 OTHER INFORMATION

No additional information available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 REACTIVITY

No data available

### 10.2 CHEMICAL STABILITY

Stable under recommended storage conditions.

### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reactions known under normal conditions of use.

### 10.4 CONDITIONS TO AVOID

Direct sunlight, extremely high or low temperatures.

### 10.5 INCOMPATIBLE MATERIALS

Strong acids. Strong bases.

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## 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

|                                     |                                |
|-------------------------------------|--------------------------------|
| Acute Toxicity                      | Not classified                 |
| Inhalation                          | Not classified                 |
| Dermal                              | Not classified                 |
| LD50 Intravenous                    | Not classified                 |
| Skin Corrosion/Irritation           | Causes skin irritation.        |
| Serious Eye Damage/Irritation       | Causes serious eye irritation. |
| Respiratory or Skin Sensitization   | Not classified                 |
| Germ Cell Mutagenicity              | Not classified                 |
| Carcinogenicity                     | Not classified                 |
| Reproductive Toxicity               | Not classified                 |
| STOT-Single Exposure                | Not classified                 |
| STOT-Repeated Exposure              | Not classified                 |
| Aspiration Hazard                   | Not classified                 |
| Symptoms/Effects After Skin Contact | Irritation                     |
| Symptoms/Effects After Eye Contact  | Eye Irritation                 |

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 TOXICITY

No additional information available.

### 12.2 PERSISTENCE AND DEGRADABILITY

No additional information available.

### 12.3 BIOACCUMULATIVE POTENTIAL

No additional information available

### 12.4 MOBILITY IN SOIL

No additional information available

### RESULTS OF PBT AND vPvB ASSESSMENT

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

### 12.6 OTHER ADVERSE EFFECTS

No additional information available

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 DISPOSAL METHODS

Waste Treatment Methods

Dispose of contents/container in accordance with local/national regulations. Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

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|   |  |
|---|--|
| <b>DEPARTMENT OF TRANSPORTATION (DOT)</b> | In accordance with DOT. Not regulated for transport. |
| <b>TRANSPORTATION OF DANGEROUS GOODS</b>  | Not applicable                                       |
| <b>TRANSPORT BY SEA</b>                   | Not applicable                                       |
| <b>AIR TRANSPORT</b>                      | Not applicable                                       |

## SECTION 15: REGULATORY INFORMATION

### 15.1 US FEDERAL REGULATIONS

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

### 15.2 INTERNATIONAL REGULATIONS

|                             |   |
|-----------------------------|---|
| <b>CANADA</b>               | Listed on the Canadian DSL (Domestic Substances List) |
| <b>EU REGULATIONS</b>       | No additional information available                   |
| <b>NATIONAL REGULATIONS</b> | No additional information available                   |

### 15.3 US STATE REGULATIONS

**California Proposition 65** - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: OTHER INFORMATION

All isolated terpenes, oils, and natural flavors listed above (Section 3.2) fall within the NFPA categories listed below.

### HMIS RATING

Health Hazard: 3  
 Chronic Health Hazard: /  
 Fire Hazard: 3  
 Physical Hazard: 1  
 Personal Protection: B

### NFPA RATING

Health Hazard: 3  
 Fire Hazard: 3  
 Reactivity Hazard: 1  
 Specific Hazard: N/A



## SECTION 17: ANALYSIS

### 17.1 FORM

Liquid Conforms to Federal Guidelines

### 17.2 ODOR

Unique to specific profile Conforms to Federal Guidelines

### 17.3 PURITY

Unadulterated / No Additives (No MCT, VEA, PG/VG, Mineral Oil, Squalene, PEG) Conforms to Federal Guidelines

### 17.4 PESTICIDES

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Conforms to Federal Guidelines

## 17.5 HEAVY METALS

Conforms to Federal Guidelines

### FURTHER INFORMATION

*The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Lab Effects, LLC and its affiliates shall not be held liable from any damage resulting from handling or from use with the product listed above.*