

**1. PRODUCT AND COMPANY IDENTIFICATION****Product identifier**

**Product Code** 00030063  
**Product Name** PEPPER SICHUAN CO2 EXTRACT

**CAS No** 102242-62-6

**Recommended use of the chemical and restrictions on use**

**Recommended use** Aromatic Ingredient(s). For Industrial Use Only.  
**Restrictions on use** Do not ingest as such. Avoid eye contact.

**Details of the supplier of the safety data sheet****Supplier**

Robertet, Inc.  
400 International Drive  
Mount Olive, NJ 07828 USA  
TEL: 201-337-7100  
E-mail: reginc@robertetusa.com

**Emergency telephone number**

**Emergency Telephone** Chemtrec 1-800-424-9300 (24 hrs)  
Outside of the USA and Canada (703) 527-3887. Collect calls accepted

**2. HAZARDS IDENTIFICATION****Classification**

|                                   |             |
|-----------------------------------|-------------|
| Skin corrosion/irritation         | Category 2  |
| Serious eye damage/eye irritation | Category 2A |
| Skin sensitization                | Category 1  |
| Reproductive toxicity             | Category 2  |
| Flammable liquids                 | Category 3  |

**Hazards not otherwise classified (HNOC)**

Not applicable

**Label elements****Signal word****Warning****Hazard statements**

Causes skin irritation  
Causes serious eye irritation  
May cause an allergic skin reaction  
Suspected of damaging fertility or the unborn child  
Flammable liquid and vapor

**Color** Green-yellow**Physical state** Liquid**Odor** Characteristic**Precautionary Statements - Prevention**

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Use personal protective equipment as required  
 Wash face, hands and any exposed skin thoroughly after handling  
 Avoid breathing dust, fume, gas, mist, vapors and spray  
 Contaminated work clothing must not be allowed out of the workplace  
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
 Keep container tightly closed  
 Ground and bond container and receiving equipment  
 Use only non-sparking tools  
 Take action to prevent static discharges  
 Use explosion-proof electrical, ventilating and lighting equipment

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention  
 Specific treatment (see supplemental first aid instructions on this label)  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 If eye irritation persists: Get medical advice/attention  
 If skin irritation or rash occurs: Get medical advice/attention  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 Wash contaminated clothing before reuse  
 In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store locked up  
 Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable

**Other information**

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name      | CAS No.   | Weight-%  |
|--------------------|-----------|-----------|
| Linalyl acetate    | 115-95-7  | 10 - 20   |
| Linalool           | 78-70-6   | 5.0 - 10  |
| Ethyl alcohol      | 64-17-5   | 1.0 - 5.0 |
| Limonene           | 5989-27-5 | 1.0 - 5.0 |
| Eucalyptol         | 470-82-6  | 1.0 - 5.0 |
| p-Cymene           | 99-87-6   | 1.0 - 5.0 |
| 4-Carvomenthenol   | 562-74-3  | 1.0 - 5.0 |
| Geranyl acetate    | 105-87-3  | 0.1 - 1.0 |
| p-Mentha-1,3-diene | 99-86-5   | 0.1 - 1.0 |
| Terpinolene        | 586-62-9  | 0.1 - 1.0 |
| beta-Caryophyllene | 87-44-5   | 0.1 - 1.0 |
| beta-Pinene        | 127-91-3  | 0.1 - 1.0 |

|                                |           |           |
|--------------------------------|-----------|-----------|
| Nerolidol (isomer unspecified) | 7212-44-4 | 0.1 - 1.0 |
|--------------------------------|-----------|-----------|

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

##### Description of first aid measures

|   |  |
|---|--|
| <b>General advice</b>                     | Show this safety data sheet to the doctor in attendance.   |
| <b>Inhalation</b>                         | Remove to fresh air. Get medical attention immediately if symptoms occur.  |
| <b>Eye contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.                            |
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.   |
| <b>Ingestion</b>                          | Clean mouth with water and drink afterwards plenty of water. Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.   |
| <b>Self-protection of the first aider</b> | Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. |

##### Most important symptoms and effects, both acute and delayed

|                 |  |
|-----------------|--|
| <b>Symptoms</b> | Itching. Rashes. Hives. Erythema (skin redness). May cause redness and tearing of the eyes. Burning sensation. |
|-----------------|--|

##### Indication of any immediate medical attention and special treatment needed

|                           |  |
|---------------------------|--|
| <b>Note to physicians</b> | May cause sensitization in susceptible persons. Treat symptomatically. |
|---------------------------|--|

#### 5. FIRE-FIGHTING MEASURES

|   |   |
|---|---|
| <b>Suitable Extinguishing Media</b><br><b>Large Fire</b>              | Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.<br>CAUTION: Use of water spray when fighting fire may be inefficient.  |
| <b>Unsuitable extinguishing media</b>                                 | Do not scatter spilled material with high pressure water streams.   |
| <b>Specific hazards arising from the chemical</b>                     | Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Product is or contains a sensitizer. May cause sensitization by skin contact. |
| <b>Explosion data</b><br><b>Sensitivity to mechanical impact</b>      | None.   |
| <b>Sensitivity to static discharge</b>                                | Yes.  |
| <b>Special protective equipment and precautions for fire-fighters</b> | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.  |

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

|                             |  |
|-----------------------------|--|
| <b>Personal precautions</b> | Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. |
| <b>Other information</b>    | Ventilate the area. Refer to protective measures listed in Sections 7 and 8.   |

### Methods and material for containment and cleaning up

|                                |   |
|--------------------------------|---|
| <b>Methods for containment</b> | Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. |
| <b>Methods for cleaning up</b> | Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.  |

## 7. HANDLING AND STORAGE

### Precautions for safe handling

|                                |   |
|--------------------------------|---|
| <b>Advice on safe handling</b> | Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Remove contaminated clothing and shoes. |
|--------------------------------|---|

### Conditions for safe storage, including any incompatibilities

|                           |   |
|---------------------------|---|
| <b>Storage Conditions</b> | Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. |
|---------------------------|---|

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Limits

| Chemical name            | ACGIH TLV      | OSHA PEL   | NIOSH   |
|--------------------------|----------------|--|---|
| Ethyl alcohol<br>64-17-5 | STEL: 1000 ppm | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup><br>(vacated) TWA: 1000 ppm<br>(vacated) TWA: 1900 mg/m <sup>3</sup> | TWA: 1000 ppm;<br>TWA: 1900 mg/m <sup>3</sup> ;<br>IDLH: 3300 ppm |
| beta-Pinene              | TWA: 20 ppm    | -  | -   |

|          |    |  |  |
|----------|----|--|--|
| 127-91-3 | DS |  |  |
|----------|----|--|--|

**Appropriate engineering controls**

**Engineering controls**                      Showers  
    Eyewash stations  
    Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**                      Wear safety glasses with side shields (or goggles). Tight sealing safety goggles.

**Hand protection**                              Wear suitable gloves.

**Skin and body protection**                      Wear suitable protective clothing. Long sleeved clothing. Antistatic boots. Chemical resistant apron. Wear fire/flame resistant/retardant clothing.

**Respiratory protection**                      No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Use appropriate respiratory protection. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material.

**General hygiene considerations**                      Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

**Physical state**                                      Liquid  
**Color**    Green-yellow  
**Odor**    Characteristic  
**Odor threshold**                                      No information available

| <b><u>Property</u></b>         | <b><u>Values</u></b> | <b><u>Remarks • Method</u></b> |
|--------------------------------|----------------------|--------------------------------|
| pH                             |                      | No information available       |
| Melting point / freezing point |                      | No information available       |
| Boiling point / boiling range  | > 35 °C              | No information available       |
| Flash point                    | 60 °C / 140 °F       | CC (closed cup)                |
| Evaporation rate               |                      | No information available       |
| Flammability                   |                      | No information available       |
| Vapor Pressure (mm Hg @ 20°C): |                      | No information available       |
| Relative vapor density         |                      | No information available       |
| Relative density               |                      | No information available       |
| Specific Gravity @ 20/20 °C    | 0.9370 - 0.9670      | RTM-101                        |
| Solubility(ies)                |                      |                                |
| Water solubility               |                      | No information available       |
| Solubility in other solvents   |                      | No information available       |
| Partition coefficient          |                      | No information available       |
| Autoignition temperature       |                      | No information available       |
| Decomposition temperature      |                      | No information available       |
| Viscosity                      |                      | No information available       |

**Other information**

**Explosive properties**                              No information available  
**Oxidizing properties**                              No information available

## 10. STABILITY AND REACTIVITY

|                                    |  |
|------------------------------------|--|
| Reactivity                         | No information available.                            |
| Chemical stability                 | Stable under normal conditions.                      |
| Possibility of hazardous reactions | None under normal processing.                        |
| Conditions to avoid                | Heat, flames and sparks.                             |
| Incompatible materials             | Strong acids. Strong bases. Strong oxidizing agents. |
| Hazardous decomposition products   | None known based on information supplied.            |

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|              |   |
|--------------|---|
| Inhalation   | Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.  |
| Eye contact  | Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.   |
| Skin contact | May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes skin irritation. |
| Ingestion    | Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.   |

### Symptoms related to the physical, chemical and toxicological characteristics

|          |   |
|----------|---|
| Symptoms | Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes. |
|----------|---|

### Acute toxicity

#### Numerical measures of toxicity

#### The following ATE values have been calculated for the mixture

|                               |              |
|-------------------------------|--------------|
| ATEmix (oral)                 | > 5000 mg/kg |
| ATEmix (dermal)               | > 5000 mg/kg |
| ATEmix (inhalation-gas)       | > 5000 ppm   |
| ATEmix (inhalation-dust/mist) | 75.00 mg/l   |
| ATEmix (inhalation-vapor)     | 150.00 mg/l  |

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

|                                   |  |
|-----------------------------------|--|
| Skin corrosion/irritation         | Classification based on data available for ingredients. Causes skin irritation.        |
| Serious eye damage/eye irritation | Classification based on data available for ingredients. Causes serious eye irritation. |
| Respiratory or skin sensitization | May cause an allergic skin reaction.   |
| Germ cell mutagenicity            | No information available.  |

**Carcinogenicity** Based on available data, the classification criteria are not met.

## 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

### **Persistence and degradability**

No information available.

### **Bioaccumulation**

There is no data for this product.

### **Other adverse effects**

No information available.

## 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

#### **Waste from residues/unused products**

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

#### **Contaminated packaging**

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

## 14. TRANSPORT INFORMATION

### **DOT**

Not regulated

### **IATA/ICAO**

|                            |                  |
|----------------------------|------------------|
| UN number or ID number     | 1197             |
| Proper shipping name       | Extracts, liquid |
| Transport hazard class(es) | 3                |
| Packing group              | III              |

### **IMDG/IMO**

|                            |                  |
|----------------------------|------------------|
| UN number or ID number     | 1197             |
| UN proper shipping name    | Extracts, liquid |
| Transport hazard class(es) | 3                |
| Packing group              | III              |
| EmS-No                     | F-E, S-D         |

## 15. REGULATORY INFORMATION

### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### **SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate

classifications.

## 16. OTHER INFORMATION

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**