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## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product identifier**

**Product Code** 00322554  
**Product Name** ROSE BULGARIA EO

**CAS No** 8007-01-0

**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

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## 2. HAZARDS IDENTIFICATION

**Classification**

|                                   |            |
|-----------------------------------|------------|
| Skin corrosion/irritation         | Category 2 |
| Serious eye damage/eye irritation | Category 1 |
| Skin sensitization                | Category 1 |
| Germ cell mutagenicity            | Category 2 |
| Carcinogenicity                   | Category 2 |
| Reproductive toxicity             | Category 2 |
| Aspiration hazard                 | Category 1 |
| Flammable liquids                 | Category 4 |

**Hazards not otherwise classified (HNOC)**

Not applicable

**Label elements****Signal word**

Danger

**Hazard statements**

Causes skin irritation  
Causes serious eye damage  
May cause an allergic skin reaction  
Suspected of causing genetic defects  
Suspected of causing cancer  
Suspected of damaging fertility or the unborn child

May be fatal if swallowed and enters airways  
Combustible liquid



**Color** Pale 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

#### 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  
Immediately call a POISON CENTER or doctor/physician  
IF ON SKIN: Wash with plenty of soap and water  
Take off contaminated clothing and wash before reuse  
If skin irritation or rash occurs: Get medical advice/attention  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
Do NOT induce vomiting  
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

May be harmful if swallowed. Toxic to aquatic life with long lasting effects.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name      | CAS No.   | Weight-%  |
|--------------------|-----------|-----------|
| Citronellol        | 106-22-9  | 30 - 40   |
| Geraniol           | 106-24-1  | 20 - 30   |
| Nonadecane         | 629-92-5  | 10 - 20   |
| Nerol              | 106-25-2  | 10 - 20   |
| Phenethyl alcohol  | 60-12-8   | 1.0 - 5.0 |
| Ethyl alcohol      | 64-17-5   | 1.0 - 5.0 |
| Citral             | 5392-40-5 | 1.0 - 5.0 |
| Methyl eugenol     | 93-15-2   | 1.0 - 5.0 |
| Farnesol           | 4602-84-0 | 1.0 - 5.0 |
| alpha-Pinene       | 80-56-8   | 1.0 - 5.0 |
| beta-Caryophyllene | 87-44-5   | 1.0 - 5.0 |
| Eugenol            | 97-53-0   | 1.0 - 5.0 |

|                                                  |            |           |
|--------------------------------------------------|------------|-----------|
| Geranyl acetate                                  | 105-87-3   | 1.0 - 5.0 |
| Linalool                                         | 78-70-6    | 1.0 - 5.0 |
| Tetrahydro-4-methyl-2-(2-methylpropen-1-yl)pyran | 16409-43-1 | 0.1 - 1.0 |
| beta-Pinene                                      | 127-91-3   | 0.1 - 1.0 |
| Farnesal                                         | 19317-11-4 | 0.1 - 1.0 |
| 4-Carvomenthenol                                 | 562-74-3   | 0.1 - 1.0 |
| trans-Nerolidol                                  | 40716-66-3 | 0.1 - 1.0 |
| Neryl acetate                                    | 141-12-8   | 0.1 - 1.0 |
| Limonene                                         | 5989-27-5  | 0.1 - 1.0 |
| TERPINENE GAMMA + ALPHA                          | 99-85-4    | 0.1 - 1.0 |
| Valeraldehyde                                    | 110-62-3   | 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>                     | Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.                                                                                                                                                                                                                                                        |
| <b>Inhalation</b>                         | Remove to fresh air. Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may 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 immediate medical attention.                                                                                                                                                       |
| <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. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get immediate medical attention.                                                                      |
| <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. Wear personal protective clothing (see section 8). Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. |

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

|                 |                                                                                                                                                                                                             |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Symptoms</b> | Burning. Burning sensation. May cause blindness. May cause redness and tearing of the eyes. Itching. Rashes. Hives. Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Erythema (skin redness). |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

|                           |                                                                                                                                                                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Note to physicians</b> | May cause sensitization in susceptible persons. Treat symptomatically. Because of the danger of aspiration, emesis or gastric lavage should not be employed unless the risk is justified by the presence of additional toxic substances. |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**5. FIRE-FIGHTING MEASURES**

|                                                                       |                                                                                                                                                                                                           |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b><br>Large Fire                     | Dry chemical. Carbon dioxide (CO <sub>2</sub> ). 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>                     | Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Product is or contains a sensitizer. May cause sensitization by skin contact. |
| <b>Explosion data</b>                                                 |                                                                                                                                                                                                           |
| Sensitivity to mechanical impact                                      | None.                                                                                                                                                                                                     |
| Sensitivity to static discharge                                       | 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. Take precautionary measures against static discharges. Do not touch or walk through spilled material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. |
| <b>Other information</b>    | 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. Dike far ahead of liquid spill 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. Do not breathe vapor or mist. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use with local exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment. 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                                                             |
|------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Phenethyl alcohol<br>60-12-8 | TWA: 0.5 ppm<br>pSk                                     | -                                                                                                                | -                                                                 |
| 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 |
| Citral<br>5392-40-5          | TWA: 5 ppm inhalable fraction<br>and vapor<br>pSk<br>DS | -                                                                                                                | -                                                                 |
| alpha-Pinene<br>80-56-8      | TWA: 20 ppm<br>DS                                       | -                                                                                                                | -                                                                 |
| beta-Pinene<br>127-91-3      | TWA: 20 ppm<br>DS                                       | -                                                                                                                | -                                                                 |
| Valeraldehyde<br>110-62-3    | TWA: 50 ppm                                             | (vacated) TWA: 50 ppm<br>(vacated) TWA: 175 mg/m <sup>3</sup>                                                    | TWA: 50 ppm;<br>TWA: 175 mg/m <sup>3</sup> ;                      |

Appropriate engineering controls**Engineering controls**

Showers  
Eyewash stations  
Ventilation systems.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Face protection shield. Tight sealing safety goggles. Wear safety glasses with side shields (or 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**

Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. Use appropriate respiratory protection.

**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. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties**Physical state**

Liquid

**Color**

Pale yellow

**Odor**

Characteristic

**Odor threshold**

No information available

| <u>Property</u>                | <u>Values</u>            | <u>Remarks • Method</u>  |
|--------------------------------|--------------------------|--------------------------|
| pH                             |                          | No information available |
| Melting point / freezing point |                          | No information available |
| Boiling point / boiling range  | > 35 °C                  | No information available |
| Flash point                    | 62 °C / 143 °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    | 0.8480 - 0.8680          | 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 |
| <u>Other information</u>       |                          |                          |
| 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. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract.                                                                                                      |
| Eye contact  | Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.                                                                                                                                                                                              |
| Skin contact | Specific test data for the substance or mixture is not available. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Repeated exposure may cause skin dryness or cracking. Causes skin irritation.                        |
| Ingestion    | Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. |

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

**Symptoms** Redness. Burning. May cause blindness. Itching. Rashes. Hives. Difficulty in breathing. Coughing and/ or wheezing. Dizziness. 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)                 | 3,530.70 mg/kg |
| ATEmix (dermal)               | > 5000 mg/kg   |
| ATEmix (inhalation-gas)       | > 5000 ppm     |
| ATEmix (inhalation-dust/mist) | > 5000 mg/l    |
| ATEmix (inhalation-vapor)     | > 5000 mg/l    |

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

|                                          |                                                                                                                                      |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Skin corrosion/irritation</b>         | Classification based on data available for ingredients. Causes skin irritation.                                                      |
| <b>Serious eye damage/eye irritation</b> | Classification based on data available for ingredients. Causes burns. Causes serious eye damage.                                     |
| <b>Respiratory or skin sensitization</b> | May cause an allergic skin reaction.                                                                                                 |
| <b>Germ cell mutagenicity</b>            | Contains a known or suspected mutagen. Classification based on data available for ingredients. Suspected of causing genetic defects. |
| <b>Carcinogenicity</b>                   | Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer.       |

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Toxic 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** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## 14. TRANSPORT INFORMATION

**DOT**

Not regulated

**IATA/ICAO**

**UN number or ID number** 3082  
**Proper shipping name** Environmentally hazardous substance, liquid, n.o.s. (Farnesol and alpha-Pinene)  
**Transport hazard class(es)** 9  
**Packing group** III

**IMDG/IMO**

**UN number or ID number** 3082  
**UN proper shipping name** Environmentally hazardous substance, liquid, n.o.s. (Farnesol and alpha-Pinene)  
**Transport hazard class(es)** 9  
**Packing group** III  
**EmS-No** F-A, S-F

## 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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Chemical name            | SARA 313 - Threshold Values % |
|--------------------------|-------------------------------|
| Methyl eugenol - 93-15-2 | 0.1                           |

**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**