



## SAFETY DATA SHEET

### 504309 OLIBANUM RESINOID

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#### 1. IDENTIFICATION

|                                      |                                                                                                                |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Product Description:</b>          | <b>OLIBANUM RESINOID</b>                                                                                       |
| <b>CAS #</b>                         | 8016-36-2                                                                                                      |
| <b>FEMA Number</b>                   | 2816                                                                                                           |
| <b>Other means of identification</b> |                                                                                                                |
| Vigon Item #                         | 504309                                                                                                         |
| <b>Recommended use</b>               | Concentrated aromatic ingredient which may be used fragrance compounds according to legal and IFRA guidelines. |
| <b>Recommended restrictions</b>      | For Manufacturing Use Only                                                                                     |

#### Company

Vigon International, LLC  
127 Airport Road  
E. Stroudsburg, PA 18301  
For information call: 570-476-6300  
Web Site: www.vigon.com

#### 24 Hour Emergency Response Information

INFOTRAC (ACCT# 78928);  
1-800-535-5053 WITHIN THE U.S.A.  
1-352-323-3500 OUTSIDE THE U.S.A.

#### **Manufacturer/Importer/Supplier/Distributor information**

##### **Manufacturer**

|                               |                                                                                                  |
|-------------------------------|--------------------------------------------------------------------------------------------------|
| <b>Company name</b>           | Vigon International, LLC                                                                         |
| <b>Address</b>                | 127 Airport Road<br>E. Stroudsburg, PA 18301<br>United States                                    |
| <b>Telephone</b>              | For information call: 570-476-6300                                                               |
| <b>Website</b>                | www.vigon.com                                                                                    |
| <b>E-mail</b>                 | regulatory@vigon.com                                                                             |
| <b>Emergency phone number</b> | INFOTRAC (ACCT# 78928);<br>1-800-535-5053 WITHIN THE U.S.A.<br>1-352-323-3500 OUTSIDE THE U.S.A. |

#### 2. HAZARD(S) IDENTIFICATION

|                                |                                                              |
|--------------------------------|--------------------------------------------------------------|
| <b>Physical hazards</b>        | Not classified.                                              |
| <b>Health hazards</b>          | Not classified.                                              |
| <b>Environmental hazards</b>   | Not classified.                                              |
| <b>Label elements</b>          |                                                              |
| <b>Hazard symbol</b>           | None.                                                        |
| <b>Signal word</b>             | None.                                                        |
| <b>Hazard statement</b>        | The substance does not meet the criteria for classification. |
| <b>Precautionary statement</b> |                                                              |
| <b>Prevention</b>              | Observe good industrial hygiene practices.                   |
| <b>Response</b>                | Take off contaminated clothing and wash it before reuse.     |
| <b>Storage</b>                 | Store away from incompatible materials.                      |

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|                                                  |                                                                                                                                                                                                                                                                     |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Disposal</b>                                  | Dispose of waste and residues in accordance with local authority requirements.                                                                                                                                                                                      |
| <b>Hazard(s) not otherwise classified (HNOC)</b> | None known.                                                                                                                                                                                                                                                         |
| <b>Supplemental information</b>                  | 100% of the substance consists of component(s) of unknown acute oral toxicity. 100% of the substance consists of component(s) of unknown acute dermal toxicity. 100% of the substance consists of component(s) of unknown acute hazards to the aquatic environment. |

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substances

| Chemical name     | Common name and synonyms | CAS number | %   |
|-------------------|--------------------------|------------|-----|
| OLIBANUM RESINOID |                          | 8016-36-2  | 100 |

#### Additional components

| Chemical name | Common name and synonyms                                                                                                                                                                  | CAS number | %       |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|
| CYMENE PARA   | 1- methyl-4-propan-2-ylbenzene<br>4-METHYL ISOPROPYL BENZENE<br>Methyl isopropyl benzene<br>DOLCYMENE<br>4-iso propyl toluene<br>para-methylcumene<br>camphogen                           | 99-87-6    | 5 - 7.5 |
| PINENE ALPHA  | dextro,laevo-pin-2(3)-ene<br>2,6,6 - trimethyl bicyclo-3,1,1-2-heptene<br>4,7,7- trimethylbicyclo[3.1.1]hept-3-ene                                                                        | 80-56-8    | 5 - 7.5 |
| ETHYL ALCOHOL | ethanol<br>ethyl hydroxide<br>1-hydroxyethane<br>methyl carbinol                                                                                                                          | 64-17-5    | 2.5 - 5 |
| PINENE BETA   | 7,7-dimethyl-4-methylidenebicyclo[3.1.1]<br>heptane<br>(1)-6,6- dimethyl-2-methylene<br>bicyclo(3.1.1) heptane                                                                            | 127-91-3   | 2.5 - 5 |
| CAMPHOR       | 1,7,7-trimethylbicyclo[2.2.1]heptan-2-one<br>2-oxo-bornane<br>2-camphonone                                                                                                                | 76-22-2    | 1 - 2.5 |
| CARVACROL     | 2-methyl-5-isopropyl phenol<br>iso propyl-ortho-cresol<br>2-hydroxy-para-cymene<br>3-iso propyl-6-methyl phenol<br>1-methyl-2-hydroxy-4-isopropylbenzene<br>2- methyl-5-propan-2-ylphenol | 499-75-2   | 1 - 2.5 |
| DIPENTENE     | p- mentha-1,8-diene<br>D,L- limonene<br>1- methyl-4-prop-1-en-2-ylcyclohexene                                                                                                             | 138-86-3   | 1 - 2.5 |

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### Additional components

| Chemical name      | Common name and synonyms                                                      | CAS number | %         |
|--------------------|-------------------------------------------------------------------------------|------------|-----------|
| BENZYL<br>BENZOATE | benzyl benzene carboxylate<br>phenyl methyl benzoate<br>BENZYL PHENYL FORMATE | 120-51-4   | 0.1 - 0.5 |

### 4. FIRST-AID MEASURES

|                                                                               |                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>                                                             | If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.                                        |
| <b>Skin contact</b>                                                           | Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes.                                                                              |
| <b>Eye contact</b>                                                            | Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eye lids.                                                                      |
| <b>Ingestion</b>                                                              | Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Direct contact with eyes may cause temporary irritation.                                                                                                                                                                                              |
| <b>Indication of immediate medical attention and special treatment needed</b> | Not available.                                                                                                                                                                                                                                        |
| <b>General information</b>                                                    | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.                                                                             |

### 5. FIRE-FIGHTING MEASURES

|                                                                      |                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>                                  | Water spray, fog, CO2, dry chemical, or alcohol resistant foam.                                                                                                                                                                                                                                                                                                                        |
| <b>Unsuitable extinguishing media</b>                                | Do not use a solid water stream as it may scatter and spread fire.                                                                                                                                                                                                                                                                                                                     |
| <b>Specific hazards arising from the chemical</b>                    | Fire may produce irritating, corrosive and/or toxic gases.                                                                                                                                                                                                                                                                                                                             |
| <b>Special protective equipment and precautions for firefighters</b> | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.    |
| <b>Fire fighting equipment/instructions</b>                          | In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control. |
| <b>Specific methods</b>                                              | Use water spray to cool unopened containers.                                                                                                                                                                                                                                                                                                                                           |
| <b>General fire hazards</b>                                          | Static charges generated by emptying package in or near flammable vapor may cause flash fire.                                                                                                                                                                                                                                                                                          |

### 6. ACCIDENTAL RELEASE MEASURES

|                                                                            |                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. |
|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



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#### Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

Large Spills: Dike the spilled material, where this is possible. Collect and dispose of spillage as indicated in section 13 of the SDS.

Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains.

Small Spills: Clean surface thoroughly to remove residual contamination. Wipe up with absorbent material (e.g. cloth, fleece).

Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Stop the flow of material, if this is without risk. Cover with plastic sheet to prevent spreading.

#### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid release to the environment. Retain and dispose of contaminated wash water. Contact local authorities in case of spillage to drain/aquatic environment.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling.

#### Conditions for safe storage, including any incompatibilities

Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Occupational exposure limits

##### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Additional components       | Type | Value                  |
|-----------------------------|------|------------------------|
| CAMPHOR (CAS 76-22-2)       | PEL  | 2 mg/m <sup>3</sup>    |
| ETHYL ALCOHOL (CAS 64-17-5) | PEL  | 1900 mg/m <sup>3</sup> |
|                             |      | 1000 ppm               |

##### US. ACGIH Threshold Limit Values

| Additional components       | Type | Value    |
|-----------------------------|------|----------|
| CAMPHOR (CAS 76-22-2)       | STEL | 3 ppm    |
|                             | TWA  | 2 ppm    |
| ETHYL ALCOHOL (CAS 64-17-5) | STEL | 1000 ppm |
| PINENE BETA (CAS 127-91-3)  | TWA  | 20 ppm   |

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### US. ACGIH Threshold Limit Values

| Additional components      | Type | Value  |
|----------------------------|------|--------|
| PINENE ALPHA (CAS 80-56-8) | TWA  | 20 ppm |

### US. NIOSH: Pocket Guide to Chemical Hazards

| Additional components       | Type | Value      |
|-----------------------------|------|------------|
| CAMPHOR (CAS 76-22-2)       | REL  | 2 mg/m3    |
|                             | TWA  | 2 mg/m3    |
| ETHYL ALCOHOL (CAS 64-17-5) | REL  | 1900 mg/m3 |
|                             |      | 1000 ppm   |
|                             | TWA  | 1900 mg/m3 |
|                             |      | 1000 ppm   |

### US. Workplace Environmental Exposure Level (WEEL) Guides

| Additional components    | Type | Value       |
|--------------------------|------|-------------|
| DIPENTENE (CAS 138-86-3) | TWA  | 165.5 mg/m3 |
|                          |      | 30 ppm      |

|                                                                              |                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Biological limit values</b>                                               | No biological exposure limits noted for the ingredient(s).                                                                                                                                                            |
| <b>Appropriate engineering controls</b>                                      | Use explosion-proof ventilation equipment to stay below exposure limits.                                                                                                                                              |
| <b>Individual protection measures, such as personal protective equipment</b> |                                                                                                                                                                                                                       |
| <b>Eye/face protection</b>                                                   | Wear safety glasses with side shields (or goggles).                                                                                                                                                                   |
| <b>Skin protection</b>                                                       |                                                                                                                                                                                                                       |
| <b>Hand protection</b>                                                       | Chemical resistant gloves.                                                                                                                                                                                            |
| <b>Other</b>                                                                 | Not available.                                                                                                                                                                                                        |
| <b>Respiratory protection</b>                                                | Respiratory protection not required. If ventilation is insufficient, suitable respiratory protection must be provided.                                                                                                |
| <b>Thermal hazards</b>                                                       | Wear appropriate thermal protective clothing, when necessary.                                                                                                                                                         |
| <b>General hygiene considerations</b>                                        | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                       |                     |
|-----------------------|---------------------|
| <b>Appearance</b>     | Refer to Spec Sheet |
| <b>Physical state</b> | Solid.              |
| <b>Form</b>           | Solid.              |
| <b>Color</b>          | Refer to Spec Sheet |
| <b>Odor</b>           | Characteristic.     |
| <b>Odor threshold</b> | Not available.      |
| <b>pH</b>             | Not available.      |

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|                                                     |                                |
|-----------------------------------------------------|--------------------------------|
| <b>Melting point/freezing point</b>                 | Not available.                 |
| <b>Initial boiling point and boiling range</b>      | 343.4 °F (173 °C)              |
| <b>Flash point</b>                                  | 212.0 °F (100.0 °C) Closed Cup |
| <b>Evaporation rate</b>                             | Not available.                 |
| <b>Flammability (solid, gas)</b>                    | Not available.                 |
| <b>Upper/lower flammability or explosive limits</b> |                                |
| Explosive limit - lower (%)                         | Not available.                 |
| Explosive limit - upper (%)                         | Not available.                 |
| <b>Vapor pressure</b>                               | Not available.                 |
| <b>Vapor density</b>                                | Not available.                 |
| <b>Relative density</b>                             | 1.09 g/cm3 at 20 °C            |
| <b>Solubility(ies)</b>                              |                                |
| Solubility (water)                                  | Insoluble                      |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.                 |
| <b>Auto-ignition temperature</b>                    | Not available.                 |
| <b>Decomposition temperature</b>                    | Not available.                 |
| <b>Viscosity</b>                                    | Not available.                 |
| <b>Other information</b>                            |                                |
| Density                                             | 1.09 g/cm3 estimated at 25 °C  |
| Explosive properties                                | Not explosive.                 |
| Flammability class                                  | Combustible IIIB estimated     |
| Molecular formula                                   | Not applicable                 |
| Oxidizing properties                                | Not oxidizing.                 |
| Specific gravity                                    | 1.09 at 25 °C                  |

## 10. STABILITY AND REACTIVITY

|                                           |                                                                                               |
|-------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.                                                   |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                   |
| <b>Conditions to avoid</b>                | Avoid temperatures exceeding the flash point. Contact with incompatible materials.            |
| <b>Incompatible materials</b>             | Strong oxidizing agents.                                                                      |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products if stored and handled as indicated.                       |

## 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

|                     |                                                      |
|---------------------|------------------------------------------------------|
| <b>Inhalation</b>   | No adverse effects due to inhalation are expected.   |
| <b>Skin contact</b> | No adverse effects due to skin contact are expected. |

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### Eye contact

Direct contact with eyes may cause temporary irritation.

### Ingestion

Expected to be a low ingestion hazard.

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

Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

#### Acute toxicity

Not known.

#### Toxicological data

#### Additional components

#### Species

#### Test Results

#### BENZYL BENZOATE (CAS 120-51-4)

##### Acute

##### Dermal

LD50

Rabbit

4000 mg/kg

##### Oral

LD50

Rat

1500 mg/kg

#### CAMPHOR (CAS 76-22-2)

##### Acute

##### Oral

LD50

Mouse

1310 mg/kg

#### CARVACROL (CAS 499-75-2)

##### Acute

##### Oral

LD50

Rat

810 mg/kg

#### DIPENTENE (CAS 138-86-3)

##### Acute

##### Dermal

LD50

Rabbit

5 g/kg

##### Oral

LD50

Rat

5 g/kg

#### ETHYL ALCOHOL (CAS 64-17-5)

##### Acute

##### Dermal

LD50

Rabbit

> 15800 mg/kg

#### CYMENE PARA (CAS 99-87-6)

##### Acute

##### Dermal

LD50

Rabbit

> 5000 mg/kg

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| Additional components                                                 | Species                                                                                                          | Test Results |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------|
| PINENE ALPHA (CAS 80-56-8)                                            |                                                                                                                  |              |
| <b>Acute</b>                                                          |                                                                                                                  |              |
| <i>Dermal</i>                                                         |                                                                                                                  |              |
| LD50                                                                  | Rabbit                                                                                                           | > 5000 mg/kg |
| <b>Skin corrosion/irritation</b>                                      | Prolonged skin contact may cause temporary irritation.                                                           |              |
| <b>Serious eye damage/eye irritation</b>                              | Direct contact with eyes may cause temporary irritation.                                                         |              |
| <b>Respiratory or skin sensitization</b>                              |                                                                                                                  |              |
| <b>ACGIH sensitization</b>                                            |                                                                                                                  |              |
| Turpentine and selected monoterpenes (CAS 127-91-3)                   | Dermal sensitization                                                                                             |              |
| Turpentine and selected monoterpenes (CAS 80-56-8)                    | Dermal sensitization                                                                                             |              |
| <b>Respiratory sensitization</b>                                      | Not a respiratory sensitizer.                                                                                    |              |
| <b>Skin sensitization</b>                                             | This product is not expected to cause skin sensitization.                                                        |              |
| <b>Germ cell mutagenicity</b>                                         | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |              |
| <b>Carcinogenicity</b>                                                |                                                                                                                  |              |
| <b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>         | Not listed.                                                                                                      |              |
| <b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)</b> | Not listed.                                                                                                      |              |
| <b>US. National Toxicology Program (NTP) Report on Carcinogens</b>    | Not listed.                                                                                                      |              |
| <b>Reproductive toxicity</b>                                          | This product is not expected to cause reproductive or developmental effects.                                     |              |
| <b>Specific target organ toxicity - single exposure</b>               | Not classified.                                                                                                  |              |
| <b>Specific target organ toxicity - repeated exposure</b>             | Not classified.                                                                                                  |              |
| <b>Aspiration hazard</b>                                              | Not an aspiration hazard.                                                                                        |              |

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Additional components | Species | Test Results        |
|-----------------------|---------|---------------------|
| CAMPHOR (CAS 76-22-2) |         |                     |
| <b>Aquatic</b>        |         |                     |
| <i>Acute</i>          |         |                     |
| Fish                  | EC50    | Pimephales promelas |
|                       |         | 110 mg/l, 96 hours  |

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| Additional components                |                                                                                                                                                                                         | Species                                   | Test Results                          |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------|
| DIPENTENE (CAS 138-86-3)             |                                                                                                                                                                                         |                                           |                                       |
| <b>Aquatic</b>                       |                                                                                                                                                                                         |                                           |                                       |
| <i>Acute</i>                         |                                                                                                                                                                                         |                                           |                                       |
| Fish                                 | LC50                                                                                                                                                                                    | Carp (Leuciscus idus melanotus)           | 34 mg/l, 48 hours                     |
| ETHYL ALCOHOL (CAS 64-17-5)          |                                                                                                                                                                                         |                                           |                                       |
| <b>Aquatic</b>                       |                                                                                                                                                                                         |                                           |                                       |
| <i>Acute</i>                         |                                                                                                                                                                                         |                                           |                                       |
| Crustacea                            | EC50                                                                                                                                                                                    | Water flea (Daphnia magna)                | $\geq 7.7 - \leq 11.2$ mg/l, 48 hours |
| Fish                                 | LC50                                                                                                                                                                                    | Fathead minnow (Pimephales promelas)      | $> 100$ mg/l, 96 hours                |
| CYMENE PARA (CAS 99-87-6)            |                                                                                                                                                                                         |                                           |                                       |
| Other                                | EC50                                                                                                                                                                                    | Pseudokirchnerella subcapitata            | 5.8 mg/l, 72 hours                    |
| <b>Aquatic</b>                       |                                                                                                                                                                                         |                                           |                                       |
| Fish                                 | LC50                                                                                                                                                                                    | Fish                                      | 2 mg/l, 96 hours (Oryzias latipes)    |
|                                      | NOEC                                                                                                                                                                                    | Sheepshead minnow (Cyprinodon variegatus) | 10 mg/l, 96 hours                     |
| <i>Acute</i>                         |                                                                                                                                                                                         |                                           |                                       |
| Crustacea                            | LC50                                                                                                                                                                                    | Water flea (Daphnia magna)                | $\geq 4.3 - \leq 10$ mg/l, 48 hours   |
| Fish                                 | LC50                                                                                                                                                                                    | Sheepshead minnow (Cyprinodon variegatus) | $\geq 36 - \leq 64$ mg/l, 96 hours    |
| PINENE ALPHA (CAS 80-56-8)           |                                                                                                                                                                                         |                                           |                                       |
| <b>Aquatic</b>                       |                                                                                                                                                                                         |                                           |                                       |
| Crustacea                            | LC50                                                                                                                                                                                    | Daphnia magna                             | 41 mg/l, 48 hours                     |
| Fish                                 | LC50                                                                                                                                                                                    | Fathead minnow (Pimephales promelas)      | 0.28 mg/l, 96 hours                   |
| <b>Persistence and degradability</b> | No data is available on the degradability of this substance.                                                                                                                            |                                           |                                       |
| <b>Bioaccumulative potential</b>     | No data available.                                                                                                                                                                      |                                           |                                       |
| <b>Mobility in soil</b>              | No data available.                                                                                                                                                                      |                                           |                                       |
| <b>Other adverse effects</b>         | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |                                           |                                       |

### 13. DISPOSAL CONSIDERATIONS

|                                              |                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Disposal instructions</b>                 | Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| <b>Local disposal regulations</b>            | Dispose in accordance with all applicable regulations.                                                                                                                                                                                                                                                              |
| <b>Hazardous waste code</b>                  | Not established.                                                                                                                                                                                                                                                                                                    |
| <b>Waste from residues / unused products</b> | Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).                                                                                                                                                     |



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**Contaminated packaging**

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### 14. TRANSPORT INFORMATION

**ADN**

Not regulated as dangerous goods.

**ADR**

Not regulated as dangerous goods.

**RID**

Not regulated as dangerous goods.

**DOT**

**BULK**

Not regulated as dangerous goods.

**DOT**

**NON-BULK**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

#### 15. REGULATORY INFORMATION

**US federal regulations**

**Toxic Substances Control Act (TSCA)**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical**

Yes

**Classified hazard categories**

Skin corrosion or irritation  
Respiratory or skin sensitization  
Specific target organ toxicity (single or repeated exposure)



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#### SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

##### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

##### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

##### Safe Drinking Water Act (SDWA)

Not regulated.

##### FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

ETHYL ALCOHOL (CAS 64-17-5)

Low priority

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

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HMIS® ratings Health: 1  
Flammability: 1  
Physical hazard: 0

#### List of abbreviations

ACGIH: American Conference of Governmental Industrial Hygienists.  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
CAS: Chemical Abstract Service.  
IARC: International Agency for Research on Cancer.  
IATA: International Air Transport Association.  
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.  
IMDG: International Maritime Dangerous Goods.  
MARPOL: International Convention for the Prevention of Pollution from Ships.  
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.  
STEL: Short term exposure limit.  
TWA: Time Weighted Average.



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#### Revision information

This document has undergone significant changes and should be reviewed in its entirety.