



## SAFETY DATA SHEET

### OLEORESIN SAGE DALMATIAN NS

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

**Product name** OLEORESIN SAGE DALMATIAN NS

**Product number** 63329

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Food / Feed additive Food industry

##### 1.3. Details of the supplier of the safety data sheet

**Supplier** Univar Solutions UK Ltd  
 Aquarius House  
 6 Mid Point Business Park  
 Bradford  
 BD3 7AY  
 +44 1274 267300  
 +44 1274 267306  
 SDS.EMEA@univarsolutions.com

##### 1.4. Emergency telephone number

**Emergency telephone** SGS - +32 (0)3 575 55 55 (24h)

**Sds No.** 63329

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

**Physical hazards** Not Classified

**Health hazards** Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317

**Environmental hazards** Aquatic Chronic 2 - H411

##### 2.2. Label elements

###### Hazard pictograms



**Signal word** Danger

**Hazard statements** H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H317 May cause an allergic skin reaction.  
 H411 Toxic to aquatic life with long lasting effects.

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### Precautionary statements

P261 Avoid breathing vapour/ spray.  
 P273 Avoid release to the environment.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P501 Dispose of contents/ container in accordance with national regulations.

### Contains

CAMPHOR, 2-PINENE, PIN-2-(10) ENE, EUCALYPTOL, (±)-1-METHYL-4-(1-METHYLVINYL)CYCLOHEXENE

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

|                                                                                                                                                             |                      |                                                  |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------|--------------|
| <b>CAMPBOR</b>                                                                                                                                              |                      |                                                  | <b>5-10%</b> |
| CAS number: 76-22-2                                                                                                                                         | EC number: 200-945-0 | REACH registration number: 01-2119966156-31-XXXX |              |
| <b>Classification</b><br>Flam. Sol. 2 - H228<br>Acute Tox. 4 - H302<br>Acute Tox. 4 - H332<br>Skin Irrit. 2 - H315<br>Eye Dam. 1 - H318<br>STOT SE 2 - H371 |                      |                                                  |              |

|                                                                                                                                                                          |                        |  |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--|-------------|
| <b>PIN-2-(10) ENE</b>                                                                                                                                                    |                        |  | <b>1-5%</b> |
| CAS number: 127-91-3                                                                                                                                                     | EC number: 204-872-5   |  |             |
| M factor (Acute) = 1                                                                                                                                                     | M factor (Chronic) = 1 |  |             |
| <b>Classification</b><br>Flam. Liq. 3 - H226<br>Skin Irrit. 2 - H315<br>Skin Sens. 1B - H317<br>Asp. Tox. 1 - H304<br>Aquatic Acute 1 - H400<br>Aquatic Chronic 1 - H410 |                        |  |             |

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|                                                                                                                                                                                                |                        |  |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--|------|
| 2-PINENE                                                                                                                                                                                       |                        |  | 1-5% |
| CAS number: 80-56-8                                                                                                                                                                            | EC number: 201-291-9   |  |      |
| M factor (Acute) = 1                                                                                                                                                                           | M factor (Chronic) = 1 |  |      |
| <b>Classification</b><br>Flam. Liq. 3 - H226<br>Acute Tox. 4 - H302<br>Skin Irrit. 2 - H315<br>Skin Sens. 1 - H317<br>Asp. Tox. 1 - H304<br>Aquatic Acute 1 - H400<br>Aquatic Chronic 1 - H410 |                        |  |      |

|                                                                                                                           |                        |  |      |
|---------------------------------------------------------------------------------------------------------------------------|------------------------|--|------|
| CAMPHENE                                                                                                                  |                        |  | 1-5% |
| CAS number: 79-92-5                                                                                                       | EC number: 201-234-8   |  |      |
| M factor (Acute) = 1                                                                                                      | M factor (Chronic) = 1 |  |      |
| <b>Classification</b><br>Flam. Sol. 2 - H228<br>Eye Irrit. 2 - H319<br>Aquatic Acute 1 - H400<br>Aquatic Chronic 1 - H410 |                        |  |      |

|                                                                      |                      |                                                  |      |
|----------------------------------------------------------------------|----------------------|--------------------------------------------------|------|
| EUCALYPTOL                                                           |                      |                                                  | 1-5% |
| CAS number: 470-82-6                                                 | EC number: 207-431-5 | REACH registration number: 01-2119967772-24-XXXX |      |
| <b>Classification</b><br>Flam. Liq. 3 - H226<br>Skin Sens. 1B - H317 |                      |                                                  |      |

|                                                                                                                                                   |                        |  |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--|-----|
| (±)-1-METHYL-4-(1-METHYLVINYL)CYCLOHEXENE                                                                                                         |                        |  | <1% |
| CAS number: 7705-14-8                                                                                                                             | EC number: 231-732-0   |  |     |
| M factor (Acute) = 1                                                                                                                              | M factor (Chronic) = 1 |  |     |
| <b>Classification</b><br>Flam. Liq. 3 - H226<br>Skin Irrit. 2 - H315<br>Skin Sens. 1 - H317<br>Aquatic Acute 1 - H400<br>Aquatic Chronic 1 - H410 |                        |  |     |

The full text for all hazard statements is displayed in Section 16.

**Composition comments**      The data shown are in accordance with the latest EC Directives.

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

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|                     |                                                                                                                                                                                                                                                      |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if symptoms are severe or persist.                                                                                        |
| <b>Ingestion</b>    | Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if symptoms are severe or persist. |
| <b>Skin contact</b> | Take off immediately all contaminated clothing. Wash skin thoroughly with soap and water. Continue to rinse. Get medical attention if symptoms are severe or persist.                                                                                |
| <b>Eye contact</b>  | Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if symptoms are severe or persist.                                                   |

### **4.2. Most important symptoms and effects, both acute and delayed**

|                     |                                                              |
|---------------------|--------------------------------------------------------------|
| <b>Skin contact</b> | Causes skin irritation. May cause an allergic skin reaction. |
| <b>Eye contact</b>  | Causes serious eye damage.                                   |

### **4.3. Indication of any immediate medical attention and special treatment needed**

|                             |                        |
|-----------------------------|------------------------|
| <b>Notes for the doctor</b> | Treat symptomatically. |
|-----------------------------|------------------------|

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

|                                       |                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>   | Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. |
| <b>Unsuitable extinguishing media</b> | Do not use water jet as an extinguisher, as this will spread the fire.           |

### **5.2. Special hazards arising from the substance or mixture**

|                                      |                                                                                                  |
|--------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>Hazardous combustion products</b> | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. |
|--------------------------------------|--------------------------------------------------------------------------------------------------|

### **5.3. Advice for firefighters**

|                                                      |                                                                                                                     |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Protective actions during firefighting</b>        | Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. |
| <b>Special protective equipment for firefighters</b> | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.               |

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

|                             |                                                                                                                                                                     |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions</b> | Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### **6.2. Environmental precautions**

|                                  |                                                                                                                                                                                                                             |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Environmental precautions</b> | Avoid the spillage or runoff entering drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### **6.3. Methods and material for containment and cleaning up**

|                                |                                                                                                                                                                                                                    |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Methods for cleaning up</b> | Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely. Provide adequate ventilation. |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### **6.4. Reference to other sections**

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**Reference to other sections**      Wear protective clothing as described in Section 8 of this safety data sheet. Collect and dispose of spillage as indicated in Section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Usage precautions**      Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment. Provide adequate ventilation.

**Advice on general occupational hygiene**      Do not eat, drink or smoke when using this product. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

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

**Storage precautions**      Store in tightly-closed, original container in a dry, cool and well-ventilated place. Avoid exposure to high temperatures or direct sunlight. Store at temperatures above 8°C.

#### 7.3. Specific end use(s)

**Specific end use(s)**      The identified uses for this product are detailed in Section 1.2.

### SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### **CAMPHOR**

Long-term exposure limit (8-hour TWA): WEL 2 ppm 13 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 3 ppm 19 mg/m<sup>3</sup>

##### **(±)-1-METHYL-4-(1-METHYLVINYL)CYCLOHEXENE**

Short-term exposure limit (15-minute): 50 ppm 300 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit.

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

##### **DNEL**

Workers - Inhalation; Long term systemic effects: 17.632 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 10 mg/kg/day  
 General population, Consumer - Inhalation; Long term systemic effects: 4.348 mg/m<sup>3</sup>  
 General population, Consumer - Dermal; Long term systemic effects: 5 mg/kg/day  
 General population, Consumer - Oral; Long term systemic effects: 5 mg/kg/day  
 General population - Inhalation; Long term systemic effects: 4.3478 mg/m<sup>3</sup>  
 General population - Oral; Long term systemic effects: 5 mg/kg/day  
 General population - Dermal; Long term systemic effects: 5 mg/kg/day  
 Workers - Dermal; Long term systemic effects: 10 mg/kg/day  
 Workers - Inhalation; Long term systemic effects: 17.6316 mg/m<sup>3</sup>

##### **PNEC**

Fresh water; 1.71 µg/l  
 marine water; 0.171 µg/l  
 STP; 1 mg/l  
 Sediment (Freshwater); 0.139 mg/kg  
 Sediment (Marinewater); 0.17 mg/kg  
 Soil; 0.013 µg/kg

#### **EUCALYPTOL (CAS: 470-82-6)**

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### DNEL

Workers - Dermal; Long term systemic effects: 2 mg/kg  
 Workers - Inhalation; Long term systemic effects: 7.05 mg/kg  
 Consumer - Dermal; Long term systemic effects: 1 mg/kg/day  
 Consumer - Inhalation; Long term systemic effects: 1.74 mg/m<sup>3</sup>

### PNEC

STP; 10 mg/l  
 Soil; 0.2 mg/kg  
 Fresh water; 0.057 mg/l  
 marine water; 0.0057 mg/l  
 Sediment (Freshwater); 0.06732 mg/kg  
 Sediment (Marinewater); 0.00673 mg/kg

### 8.2. Exposure controls

#### Protective equipment



#### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166.

#### Hand protection

The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals, gloves should comply with European Standard EN374.

#### Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

#### Hygiene measures

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

#### Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. If ventilation is inadequate, suitable respiratory protection must be worn. EN 136/140/141/145/143/149

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                 |                           |
|---------------------------------|---------------------------|
| Appearance                      | Liquid.                   |
| Colour                          | Greenish. Brownish.       |
| Odour                           | Characteristic.           |
| Odour threshold                 | No information available. |
| pH                              | No information available. |
| Melting point                   | No information available. |
| Initial boiling point and range | No information available. |
| Flash point                     | 73°C                      |
| Evaporation rate                | No information available. |
| Evaporation factor              | No information available. |

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|                                              |                                                             |
|----------------------------------------------|-------------------------------------------------------------|
| Flammability (solid, gas)                    | No information available.                                   |
| Upper/lower flammability or explosive limits | No information available.                                   |
| Other flammability                           | No information available.                                   |
| Vapour pressure                              | No information available.                                   |
| Vapour density                               | No information available.                                   |
| Relative density                             | 0.930 - 0.970 @ 25°C                                        |
| Bulk density                                 | No information available.                                   |
| Solubility(ies)                              | No information available.                                   |
| Partition coefficient                        | No information available.                                   |
| Auto-ignition temperature                    | No information available.                                   |
| Decomposition Temperature                    | No information available.                                   |
| Viscosity                                    | No information available.                                   |
| Explosive properties                         | Not considered to be explosive.                             |
| Explosive under the influence of a flame     | No information available.                                   |
| Oxidising properties                         | Does not meet the criteria for classification as oxidising. |

### 9.2. Other information

|                           |                           |
|---------------------------|---------------------------|
| Refractive index          | 1.467 - 1.484             |
| Particle size             | No information available. |
| Molecular weight          | No information available. |
| Volatility                | No information available. |
| Saturation concentration  | No information available. |
| Critical temperature      | No information available. |
| Volatile organic compound | No information available. |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

|            |                                                                                                |
|------------|------------------------------------------------------------------------------------------------|
| Reactivity | No test data specifically related to reactivity available for this product or its ingredients. |
|------------|------------------------------------------------------------------------------------------------|

### 10.2. Chemical stability

|           |                                                                     |
|-----------|---------------------------------------------------------------------|
| Stability | Stable at normal ambient temperatures and when used as recommended. |
|-----------|---------------------------------------------------------------------|

### 10.3. Possibility of hazardous reactions

|                                    |                                                                                |
|------------------------------------|--------------------------------------------------------------------------------|
| Possibility of hazardous reactions | Under normal conditions of storage and use, no hazardous reactions will occur. |
|------------------------------------|--------------------------------------------------------------------------------|

### 10.4. Conditions to avoid

|                     |                                                         |
|---------------------|---------------------------------------------------------|
| Conditions to avoid | Avoid exposure to high temperatures or direct sunlight. |
|---------------------|---------------------------------------------------------|

### 10.5. Incompatible materials

|                    |                 |
|--------------------|-----------------|
| Materials to avoid | Not determined. |
|--------------------|-----------------|

## OLEORESIN SAGE DALMATIAN NS

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Does not decompose when used and stored as recommended. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity - oral

ATE oral (mg/kg) 5,998.72

##### Acute toxicity - inhalation

ATE inhalation (gases ppm) 50,000.0

ATE inhalation (vapours mg/l) 122.22

ATE inhalation (dusts/mists mg/l) 16.67

##### Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation.

##### Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

##### Respiratory sensitisation

Respiratory sensitisation No information available.

##### Skin sensitisation

Skin sensitisation May cause an allergic skin reaction.

##### Germ cell mutagenicity

Genotoxicity - in vitro No information available.

##### Carcinogenicity

Carcinogenicity No information available.

##### Reproductive toxicity

Reproductive toxicity - fertility No information available.

Reproductive toxicity - development No information available.

##### Specific target organ toxicity - single exposure

STOT - single exposure No information available.

##### Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

##### Aspiration hazard

Aspiration hazard No information available.

**Inhalation** Gas or vapour in high concentrations may irritate the respiratory system.

**Ingestion** Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.

**Skin contact** Causes skin irritation. May cause an allergic skin reaction.

**Eye contact** Causes serious eye damage.

## OLEORESIN SAGE DALMATIAN NS

Toxicological information on ingredients.CAMPHORAcute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 1,310.0

Species Rat

ATE oral (mg/kg) 1,310.0

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> > 2000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) Harmful if inhaled.

Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation No information available.

Germ cell mutagenicity

Genotoxicity - in vitro No information available.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility No information available.

Specific target organ toxicity - single exposure

STOT - single exposure May cause damage to organs (Lungs) if inhaled.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard No information available.

Inhalation Harmful if inhaled. Dust in high concentrations may irritate the respiratory system.

Ingestion Harmful if swallowed.

Skin contact Causes skin irritation.

## OLEORESIN SAGE DALMATIAN NS

|                                         |                                                                                     |
|-----------------------------------------|-------------------------------------------------------------------------------------|
| <b>Eye contact</b>                      | Causes serious eye damage. Particles in the eyes may cause irritation and smarting. |
| <b>Acute and chronic health hazards</b> | May cause damage to organs (Lungs) if inhaled.                                      |
| <b>Route of exposure</b>                | Inhalation                                                                          |
| <b>Target organs</b>                    | Lungs                                                                               |

### **PIN-2-(10) ENE**

#### **Acute toxicity - oral**

|                                                    |                                        |
|----------------------------------------------------|----------------------------------------|
| <b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b> | 5,000.0                                |
| <b>Species</b>                                     | Rat                                    |
| <b>Notes (oral LD<sub>50</sub>)</b>                | LD <sub>50</sub> 5000 mg/kg, Oral, Rat |
| <b>ATE oral (mg/kg)</b>                            | 5,000.0                                |

#### **Acute toxicity - dermal**

|                                                      |                                             |
|------------------------------------------------------|---------------------------------------------|
| <b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b> | 5,000.0                                     |
| <b>Species</b>                                       | Rabbit                                      |
| <b>Notes (dermal LD<sub>50</sub>)</b>                | LD <sub>50</sub> 5000 mg/kg, Dermal, Rabbit |
| <b>ATE dermal (mg/kg)</b>                            | 5,000.0                                     |

#### **Aspiration hazard**

|                          |                                                                                                                                    |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Aspiration hazard</b> | May be fatal if swallowed and enters airways. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis. |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------|

|                     |                                                     |
|---------------------|-----------------------------------------------------|
| <b>Inhalation</b>   | Irritating to respiratory system.                   |
| <b>Ingestion</b>    | Gastrointestinal symptoms, including upset stomach. |
| <b>Skin contact</b> | Irritating to skin.                                 |
| <b>Eye contact</b>  | Irritating to eyes.                                 |

### **2-PINENE**

#### **Acute toxicity - oral**

|                                                    |                                        |
|----------------------------------------------------|----------------------------------------|
| <b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b> | 500.0                                  |
| <b>Species</b>                                     | Rat                                    |
| <b>Notes (oral LD<sub>50</sub>)</b>                | LD <sub>50</sub> 3700 mg/kg, Oral, Rat |
| <b>ATE oral (mg/kg)</b>                            | 500.0                                  |

#### **Acute toxicity - dermal**

|                                                      |         |
|------------------------------------------------------|---------|
| <b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b> | 5,000.0 |
|------------------------------------------------------|---------|

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|                                       |                                              |
|---------------------------------------|----------------------------------------------|
| <b>Species</b>                        | Rat                                          |
| <b>Notes (dermal LD<sub>50</sub>)</b> | LD <sub>50</sub> 5000 mg/kg, Dermal, Rat     |
| <b>ATE dermal (mg/kg)</b>             | 5,000.0                                      |
| <b>Inhalation</b>                     | May cause respiratory system irritation.     |
| <b>Ingestion</b>                      | Harmful: may cause lung damage if swallowed. |
| <b>Skin contact</b>                   | May cause sensitisation by skin contact.     |
| <b>Eye contact</b>                    | Irritating to eyes.                          |

### CAMPHENE

#### Acute toxicity - oral

|                                     |                                         |
|-------------------------------------|-----------------------------------------|
| <b>Notes (oral LD<sub>50</sub>)</b> | LD <sub>50</sub> >5000 mg/kg, Oral, Rat |
|-------------------------------------|-----------------------------------------|

#### Acute toxicity - dermal

|                                       |                                              |
|---------------------------------------|----------------------------------------------|
| <b>Notes (dermal LD<sub>50</sub>)</b> | LD <sub>50</sub> >2500 mg/kg, Dermal, Rabbit |
|---------------------------------------|----------------------------------------------|

|                     |                                          |
|---------------------|------------------------------------------|
| <b>Inhalation</b>   | May cause respiratory system irritation. |
| <b>Ingestion</b>    | May cause stomach pain or vomiting.      |
| <b>Skin contact</b> | Slightly irritating.                     |
| <b>Eye contact</b>  | Irritating to eyes.                      |

### EUCALYPTOL

#### Acute toxicity - oral

|                                                    |         |
|----------------------------------------------------|---------|
| <b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b> | 2,480.0 |
|----------------------------------------------------|---------|

|                                     |                                        |
|-------------------------------------|----------------------------------------|
| <b>Species</b>                      | Rat                                    |
| <b>Notes (oral LD<sub>50</sub>)</b> | LD <sub>50</sub> 2480 mg/kg, Oral, Rat |
| <b>ATE oral (mg/kg)</b>             | 2,480.0                                |

#### Acute toxicity - dermal

|                                       |                                              |
|---------------------------------------|----------------------------------------------|
| <b>Notes (dermal LD<sub>50</sub>)</b> | LD <sub>50</sub> >5000 mg/kg, Dermal, Rabbit |
|---------------------------------------|----------------------------------------------|

#### Skin corrosion/irritation

|                                  |                           |
|----------------------------------|---------------------------|
| <b>Skin corrosion/irritation</b> | No information available. |
|----------------------------------|---------------------------|

#### Serious eye damage/irritation

|                                      |                           |
|--------------------------------------|---------------------------|
| <b>Serious eye damage/irritation</b> | No information available. |
|--------------------------------------|---------------------------|

#### Respiratory sensitisation

|                                  |                           |
|----------------------------------|---------------------------|
| <b>Respiratory sensitisation</b> | No information available. |
|----------------------------------|---------------------------|

#### Skin sensitisation

|                           |                                      |
|---------------------------|--------------------------------------|
| <b>Skin sensitisation</b> | May cause an allergic skin reaction. |
|---------------------------|--------------------------------------|

## OLEORESIN SAGE DALMATIAN NS

### Germ cell mutagenicity

Genotoxicity - in vitro No information available.

### Carcinogenicity

Carcinogenicity No information available.

### Reproductive toxicity

Reproductive toxicity - fertility No information available.

Reproductive toxicity - development No information available.

### Specific target organ toxicity - single exposure

STOT - single exposure No information available.

### Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

### Aspiration hazard

Aspiration hazard No information available.

Inhalation Gas or vapour in high concentrations may irritate the respiratory system.

Ingestion Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.

Skin contact May cause an allergic skin reaction.

Eye contact May cause temporary eye irritation.

## SECTION 12: Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

### Ecological information on ingredients.

#### CAMPHOR

Ecotoxicity The product components are 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.

#### PIN-2-(10) ENE

Ecotoxicity Very toxic to aquatic life with long lasting effects.

#### 2-PINENE

Ecotoxicity The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

#### CAMPHENE

Ecotoxicity Very toxic to aquatic life with long lasting effects.

#### EUCALYPTOL

## OLEORESIN SAGE DALMATIAN NS

### Ecotoxicity

The product components are 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.

### 12.1. Toxicity

#### Toxicity

Toxic to aquatic life.

#### Ecological information on ingredients.

#### CAMPHOR

##### Toxicity

Not considered toxic to fish.

##### Acute aquatic toxicity

##### Acute toxicity - fish

LC<sub>50</sub>, 96 hours: ~ 17 mg/l, Pimephales promelas (Fat-head Minnow)  
LC<sub>50</sub>, 96 hour: 33.25 mg/l, Fish

#### PIN-2-(10) ENE

##### Acute aquatic toxicity

##### LE(C)<sub>50</sub>

0.1 < L(E)C<sub>50</sub> ≤ 1

##### M factor (Acute)

1

##### Acute toxicity - aquatic invertebrates

LC<sub>50</sub>, 48 hour: 2.2 mg/l, Daphnia magna

##### Chronic aquatic toxicity

##### M factor (Chronic)

1

#### 2-PINENE

##### Acute aquatic toxicity

##### LE(C)<sub>50</sub>

0.1 < L(E)C<sub>50</sub> ≤ 1

##### M factor (Acute)

1

##### Acute toxicity - aquatic invertebrates

LC<sub>50</sub>, 48 hour: 6.74 mg/l, Daphnia magna

##### Chronic aquatic toxicity

##### NOEC

0.01 < NOEC ≤ 0.1

##### Degradability

Non-rapidly degradable

##### M factor (Chronic)

1

#### CAMPHENE

##### Acute aquatic toxicity

##### LE(C)<sub>50</sub>

0.1 < L(E)C<sub>50</sub> ≤ 1

##### M factor (Acute)

1

##### Acute toxicity - fish

LC<sub>50</sub>, 96 hours: 0.1-1 mg/l, Fish

##### Chronic aquatic toxicity

##### M factor (Chronic)

1

## OLEORESIN SAGE DALMATIAN NS

EUCALYPTOL

Toxicity Not considered toxic to fish.

Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 102 mg/l, Fish

(±)-1-METHYL-4-(1-METHYLVINYL)CYCLOHEXENEAcute aquatic toxicity

LE(C)<sub>50</sub> 0.1 < L(E)C<sub>50</sub> ≤ 1

M factor (Acute) 1

Chronic aquatic toxicity

M factor (Chronic) 1

12.2. Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product.

Ecological information on ingredients.CAMPHOR

**Persistence and degradability** Expected to be readily biodegradable.

PIN-2-(10) ENE

**Persistence and degradability** The product is readily biodegradable.

2-PINENE

**Persistence and degradability** The product is readily biodegradable.

EUCALYPTOL

**Persistence and degradability** The substance is readily biodegradable.

12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** No information available.

Ecological information on ingredients.CAMPHOR

**Bioaccumulative potential** Bioaccumulation is unlikely.

**Partition coefficient** log Pow: 3.04

CAMPHENE

**Bioaccumulative potential** Potentially bioaccumulating.

**OLEORESIN SAGE DALMATIAN NS**

**Partition coefficient** log Pow: 4.5

**EUCALYPTOL**

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** log Pow: 2.97

**12.4. Mobility in soil**

**Mobility** No information available.

**Ecological information on ingredients.****CAMPHOR**

**Mobility** The product is partly soluble in water and may spread in the aquatic environment.

**PIN-2-(10) ENE**

**Mobility** The product is insoluble in water.

**2-PINENE**

**Mobility** The product is insoluble in water.

**CAMPHENE**

**Mobility** The product is insoluble in water.

**EUCALYPTOL**

**Mobility** The product is insoluble in water.

**12.5. Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

**Ecological information on ingredients.****CAMPHOR**

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

**EUCALYPTOL**

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

**12.6. Other adverse effects**

**Other adverse effects** None known.

**Ecological information on ingredients.****CAMPHOR**

**Other adverse effects** No information available.

## OLEORESIN SAGE DALMATIAN NS

EUCALYPTOL

Other adverse effects      None known.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

|                            |                                                                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General information</b> | Do not puncture or incinerate, even when empty. Empty containers or liners may retain some product residues and hence be potentially hazardous. |
| <b>Disposal methods</b>    | Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.                     |

**SECTION 14: Transport information**

|                |                                                                               |
|----------------|-------------------------------------------------------------------------------|
| <b>General</b> | Wear protective clothing as described in Section 8 of this safety data sheet. |
|----------------|-------------------------------------------------------------------------------|

**14.1. UN number**

|                  |      |
|------------------|------|
| UN No. (ADR/RID) | 3082 |
| UN No. (IMDG)    | 3082 |
| UN No. (ICAO)    | 3082 |
| UN No. (ADN)     | 3082 |

**14.2. UN proper shipping name**

|                                       |                                                                                         |
|---------------------------------------|-----------------------------------------------------------------------------------------|
| <b>Proper shipping name (ADR/RID)</b> | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS PIN-2-(10) ENE, CAMPHENE) |
| <b>Proper shipping name (IMDG)</b>    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS PIN-2-(10) ENE, CAMPHENE) |
| <b>Proper shipping name (ICAO)</b>    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS PIN-2-(10) ENE, CAMPHENE) |
| <b>Proper shipping name (ADN)</b>     | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS PIN-2-(10) ENE, CAMPHENE) |

**14.3. Transport hazard class(es)**

|                             |    |
|-----------------------------|----|
| ADR/RID class               | 9  |
| ADR/RID classification code | M6 |
| ADR/RID label               | 9  |
| IMDG class                  | 9  |
| ICAO class/division         | 9  |
| ADN class                   | 9  |

**Transport labels****14.4. Packing group**

|                       |     |
|-----------------------|-----|
| ADR/RID packing group | III |
| IMDG packing group    | III |

## OLEORESIN SAGE DALMATIAN NS

ICAO packing group III

ADN packing group III

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

EmS F-A, S-F

ADR transport category 3

Emergency Action Code •3Z

Hazard Identification Number 90  
(ADR/RID)

Tunnel restriction code (-)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78  
and the IBC Code

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**EU legislation** Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).  
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).  
Commission Regulation (EU) No 2015/830 of 28 May 2015.  
This product may impact SEVESO storage regulations.

**Restrictions (Annex XVII Regulation 1907/2006)** This product is/contains a substance that is included in REGULATION (EC) No 1907/2006 (REACH) ANNEX XVII - RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES. Entry number: 3

**Seveso Directive - Control of major accident hazards** E2

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

## OLEORESIN SAGE DALMATIAN NS

### Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.  
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.  
 CAS: Chemical Abstracts Service.  
 DNEL: Derived No Effect Level.  
 IATA: International Air Transport Association.  
 IMDG: International Maritime Dangerous Goods.  
 Kow: Octanol-water partition coefficient.  
 LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.  
 LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).  
 PBT: Persistent, Bioaccumulative and Toxic substance.  
 PNEC: Predicted No Effect Concentration.  
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.  
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.  
 vPvB: Very Persistent and Very Bioaccumulative.  
 IARC: International Agency for Research on Cancer.  
 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.  
 cATpE: Converted Acute Toxicity Point Estimate.  
 BCF: Bioconcentration Factor.  
 BOD: Biochemical Oxygen Demand.  
 EC<sub>50</sub>: 50% of maximal Effective Concentration.  
 LOAEC: Lowest Observed Adverse Effect Concentration.  
 LOAEL: Lowest Observed Adverse Effect Level.  
 NOAEC: No Observed Adverse Effect Concentration.  
 NOAEL: No Observed Adverse Effect Level.  
 NOEC: No Observed Effect Concentration.  
 LOEC: Lowest Observed Effect Concentration.  
 DMEL: Derived Minimal Effect Level.  
 EL50: Exposure Limit 50  
 hPa: Hectopascal  
 LL50: Lethal Loading fifty  
 OECD: Organisation for Economic Co-operation and Development  
 POW: Octanol-water partition coefficient  
 SCBA: self-contained breathing apparatus  
 STP: Sewage Treatment Plant  
 VOC: Volatile Organic Compounds

### Classification abbreviations and acronyms

Acute Tox. = Acute toxicity  
 Aquatic Acute = Hazardous to the aquatic environment (acute)  
 Aquatic Chronic = Hazardous to the aquatic environment (chronic)

### Key literature references and sources for data

Supplier's information.

### Classification procedures according to Regulation (EC) 1272/2008

Skin Irrit. 2 - H315: Calculation method. Skin Sens. 1 - H317: Calculation method. Eye Dam. 1 - H318: Calculation method. Aquatic Chronic 2 - H411: Calculation method.

### Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

### Revision date

29/12/2021

**OLEORESIN SAGE DALMATIAN NS**

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Version number</b>            | 1.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>SDS number</b>                | 63329                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>SDS status</b>                | Approved.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Hazard statements in full</b> | H226 Flammable liquid and vapour.<br>H228 Flammable solid.<br>H302 Harmful if swallowed.<br>H304 May be fatal if swallowed and enters airways.<br>H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.<br>H318 Causes serious eye damage.<br>H319 Causes serious eye irritation.<br>H332 Harmful if inhaled.<br>H371 May cause damage to organs if inhaled.<br>H400 Very toxic to aquatic life.<br>H410 Very toxic to aquatic life with long lasting effects.<br>H411 Toxic to aquatic life with long lasting effects. |
| <b>Signature</b>                 | Jitendra Panchal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.