



Revision Date 30-Jan-2018

This safety data sheet complies with the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Version 1

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

### 1.1. Product identifier

Product Code(s) 266  
Product name MENTHOL FLAVOR, NATURAL WONF

Pure substance/mixture Mixture

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

Recommended Use Ingredient for further processing

Uses advised against No information available

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

Manufacturer Apex Flavors, Inc.  
1371 Brass Mill Rd.  
Suite A  
Belcamp, MD 21017  
(410) 565-6600

### For further information, please contact:

E-mail Address cpisano@apexflavors.com

### 1.4. Emergency telephone number

Emergency telephone Chemtrec: 1-800-424-9300 for US/ 703-527-3887 outside US

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

### 2.2. Label elements

#### **Product identifier**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

#### **Signal Word**

None

Contains CARVONE EUH208 - May produce an allergic reaction

EUH210 - Safety data sheet available on request

### 2.3. Other information

No information available

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

| Chemical Name    | EC-No     | CAS-No  | Weight % | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                     | REACH Registration Number |
|------------------|-----------|---------|----------|---------------------------------------------------------------------------------------------------------------------|---------------------------|
| PROPYLENE GLYCOL | 200-338-0 | 57-55-6 | 90-100%  | No data available                                                                                                   | No data available         |
| CARVONE          | 202-759-5 | 99-49-0 | <1%      | Aquatic Acute 3 (H402)<br>Skin Sens. 1 (H317)<br>Skin Irrit. 3 (H316)<br>Acute Tox. 4 (H302)<br>Acute Tox. 5 (H313) | No data available         |

**For the full text of the R-phrases mentioned in this Section, see Section 16**

**Full text of H- and EUH-phrases: see section 16**

### Section 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

|                     |                                                                                                                      |
|---------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Move to fresh air.                                                                                                   |
| <b>Skin contact</b> | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.                |
| <b>Eye contact</b>  | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| <b>Ingestion</b>    | Clean mouth with water and drink afterwards plenty of water.                                                         |

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

**Main Symptoms** No information available.

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

**Note to physicians** Treat symptomatically.

### Section 5: FIRE FIGHTING MEASURES

#### 5.1. Extinguishing media

##### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

##### **Unsuitable extinguishing media**

No information available

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

Thermal decomposition can lead to release of irritating gases and vapors

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment.

### Section 6: ACCIDENTAL RELEASE MEASURES

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

Ensure adequate ventilation.

**For emergency responders**

Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

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

Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**

Use personal protective equipment. Dam up. Cover liquid spill with sand, earth or other noncombustible absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

**6.4. Reference to other sections**

See section 8 for more information. See section 13 for more information.

**Section 7: HANDLING AND STORAGE****7.1. Precautions for safe handling****Advice on safe handling**

Ensure adequate ventilation.

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice.

**7.2. Conditions for safe storage, including any incompatibilities****Storage Conditions**

Keep container tightly closed in a dry and well-ventilated place.

**Incompatible products**

None known based on information supplied.

**7.3 Specific end use(s)****Risk Management Methods (RMM)**

The information required is contained in this Material Safety Data Sheet.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters**

| Chemical Name               | European Union | The United Kingdom                                                                                                                                     | France | Spain                                                      | Germany                                                                 |
|-----------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------|-------------------------------------------------------------------------|
| PROPYLENE GLYCOL<br>57-55-6 | -              | STEL: 450 ppm STEL:<br>1422 mg/m <sup>3</sup> STEL: 30<br>mg/m <sup>3</sup><br>TWA: 150 ppm TWA:<br>474 mg/m <sup>3</sup> TWA: 10<br>mg/m <sup>3</sup> | -      | -                                                          | -                                                                       |
| Chemical Name               | Austria        | Switzerland                                                                                                                                            | Poland | Norway                                                     | Ireland                                                                 |
| PROPYLENE GLYCOL<br>57-55-6 | -              | -                                                                                                                                                      | -      | TWA: 25 ppm TWA:<br>79 mg/m <sup>3</sup><br>STEL: 37.5 ppm | TWA: 150 ppm TWA:<br>470 mg/m <sup>3</sup> TWA: 10<br>mg/m <sup>3</sup> |

|  |  |  |  |                               |  |
|--|--|--|--|-------------------------------|--|
|  |  |  |  | STEL: 118.5 mg/m <sup>3</sup> |  |
|--|--|--|--|-------------------------------|--|

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

### 8.2. Exposure controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

#### **Personal protective equipment**

**Eye/face protection** Tightly fitting safety goggles.  
**Skin and body protection** Long sleeved clothing.

**Environmental Exposure Controls** No information available.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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

**Physical state** liquid  
**Appearance** clear  
**Odor** Menthol cooling  
**Color** colorless

#### Property

#### Values

#### • Method

|                                               |                          |                          |
|-----------------------------------------------|--------------------------|--------------------------|
| <b>pH</b>                                     |                          | No information available |
| <b>Melting/freezing point</b>                 |                          | No information available |
| <b>Boiling point/boiling range</b>            |                          | FCC Method               |
| <b>Flash Point</b>                            | 100 °C / 212 °F          | Closed cup               |
| <b>Evaporation rate</b>                       |                          | FCC Method               |
| <b>Flammability (solid, gas)</b>              |                          | No information available |
| <b>Flammability Limits in Air</b>             |                          |                          |
| <b>Upper flammability limit</b>               |                          | No information available |
| <b>lower flammability limit</b>               |                          | No information available |
| <b>Vapor pressure mm Hg 20°C</b>              |                          | No information available |
| <b>Vapor density</b>                          |                          | No information available |
| <b>Relative density</b>                       |                          | No information available |
| <b>Specific Gravity @ 25C</b>                 | 1.015 - 1.045            | FCC Method               |
| <b>Specific Gravity @ 20C</b>                 | 1.018 - 1.048            | FCC Method               |
| <b>Refractive Index</b>                       | 1.4182 - 1.4482          | FCC Method               |
| <b>Water solubility</b>                       |                          | No information available |
| <b>Solubility in other solvents</b>           |                          | No information available |
| <b>Partition coefficient: n-octanol/water</b> |                          | No information available |
| <b>Autoignition temperature</b>               |                          | No information available |
| <b>Decomposition temperature</b>              |                          | No information available |
| <b>Viscosity, kinematic</b>                   |                          | No information available |
| <b>Viscosity, dynamic</b>                     |                          | No information available |
| <b>Explosive properties</b>                   | No information available |                          |
| <b>Oxidizing Properties</b>                   | No information available |                          |

### 9.2. Other information

**Softening point** No information available  
**Molecular Weight** No information available  
**VOC Content(%)** No information available  
**Density VALUE** No information available  
**Bulk Density VALUE** No information available

## Section 10: STABILITY AND REACTIVITY

**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact none.  
Sensitivity to Static Discharge none.

**10.3. Possibility of hazardous reactions****Hazardous Reactions**

None under normal processing.

**10.4. Conditions to avoid**

None known.

**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

None under normal use conditions.

**Section 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects****Acute toxicity****Product Information**

Product does not present an acute toxicity hazard based on known or supplied information.

**Inhalation** There is no data available for this product.  
**Eye contact** There is no data available for this product.  
**Skin contact** There is no data available for this product.  
**Ingestion** There is no data available for this product.

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 20,751.00 mg/kg  
**ATEmix (dermal)** 21,581.00 mg/kg

**Unknown Acute Toxicity**

99.87156% of the mixture consists of ingredient(s) of unknown toxicity.  
3.49156 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.  
3.49156 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.  
99.87156 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).  
99.87156 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).  
99.87156 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

| Chemical Name    | Oral LD50           | Dermal LD50            | LC50 Inhalation |
|------------------|---------------------|------------------------|-----------------|
| PROPYLENE GLYCOL | 20000 mg/kg ( Rat ) | 20800 mg/kg ( Rabbit ) |                 |

**Skin corrosion/irritation** No information available.

**Eye damage/irritation** No information available.

|                                                                    |                           |
|--------------------------------------------------------------------|---------------------------|
| <b>Sensitization</b>                                               | No information available. |
| <b>Germ Cell Mutagenicity</b>                                      | No information available. |
| <b>Carcinogenicity</b>                                             | No information available. |
| <b>Reproductive toxicity</b>                                       | No information available. |
| <b>Specific target organ systemic toxicity (single exposure)</b>   | No information available. |
| <b>Specific target organ systemic toxicity (repeated exposure)</b> | No information available. |
| <b>Aspiration hazard</b>                                           | No information available. |

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

0.08156% of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Chemical Name    | Toxicity to algae                                     | Toxicity to fish                                                                                                                                                                             | Toxicity to daphnia and other aquatic invertebrates                           |
|------------------|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| PROPYLENE GLYCOL | 19000: 96 h Pseudokirchneriella subcapitata mg/L EC50 | 51600: 96 h Oncorhynchus mykiss mg/L LC50 static 41 - 47: 96 h Oncorhynchus mykiss mL/L LC50 static 51400: 96 h Pimephales promelas mg/L LC50 static 710: 96 h Pimephales promelas mg/L LC50 | 10000: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50 Static |

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

No information available.

### 12.4. Mobility in soil

#### **Mobility in soil**

No information available.

### 12.5. Results of PBT and vPvB assessment

No information available.

### 12.6. Other adverse effects

No information available

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste from residues / unused** Dispose of in accordance with local regulations.

## products

Contaminated packaging Empty remaining contents.

**Section 14: TRANSPORT INFORMATION****IMDG / IMO**

|                           |               |
|---------------------------|---------------|
| 14.1 UN/ID No             | Not regulated |
| 14.2 Proper shipping name | Not regulated |
| 14.3 Hazard class         | Not regulated |
| 14.4 Packing Group        | Not regulated |

**DOT/ADR/RID**

|                           |               |
|---------------------------|---------------|
| 14.1 UN/ID No             | Not regulated |
| 14.2 Proper shipping name | Not regulated |
| 14.3 Hazard class         | Not regulated |
| 14.4 Packing Group        | Not regulated |

**ICAO/IATA**

|                           |                |
|---------------------------|----------------|
| 14.1 UN/ID No             | Not regulated  |
| 14.2 Proper shipping name | Not regulated  |
| 14.3 Hazard class         | Not regulated  |
| 14.4 Packing Group        | Not regulated  |
| 14.5 Environmental hazard | Not applicable |
| 14.6 Special Provisions   | None           |

**Section 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

**Authorizations and/or restrictions on use:**

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**Persistent Organic Pollutants**

Not applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009** Not applicable

**International Inventories**

|               |   |
|---------------|---|
| TSCA          | - |
| DSL/NDSL      | - |
| EINECS/ELINCS | - |
| ENCS          | - |
| IECSC         | - |
| KECL          | - |
| PICCS         | - |
| AICS          | - |

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

### 15.2. Chemical safety assessment

No information available

## Section 16: OTHER INFORMATION

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### **Full text of R-phrases referred to under sections 2 and 3**

R38 - Irritating to skin

R22 - Harmful if swallowed

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

#### **Full text of H-Statements referred to under section 3**

H402 - Harmful to aquatic life

H317 - May cause an allergic skin reaction

H316 - Causes mild skin irritation

H302 - Harmful if swallowed

H313 - May be harmful in contact with skin

#### **Legend**

SVHC: Substances of Very High Concern for Authorization:

#### **Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA: Time weighted average

STEL:

Short term exposure limit

Ceiling: Maximum limit value:

\*

Skin designation

**Revision Date** 30-Jan-2018

**Reason for revision:** Not applicable.

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.**