

## 0280 - Pear Flavor, Natural

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 03/21/2019

Version: 2

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

##### 1.1. Product identifier

Product name : 0280 - Pear Flavor, Natural  
Product form : Mixture

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

Use of the substance/mixture : Food industry: component

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

LorAnn Oils, Inc.  
4518 Aurelius Road  
Lansing, MI 48910  
Telephone: 1.800.862.8620  
Fax: 1.517.882.0507

##### 1.4. Emergency telephone number

Emergency number : CHEMTREC: Within USA and Canada: 1.800.424.9300 Outside USA and Canada: +1 703 527 3887

#### SECTION 2: Hazards identification

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

###### GHS-US classification

Flam. Liq. 3 H226

##### 2.2. Label elements

###### GHS-US labeling

Hazard pictograms (GHS-US)

:



GHS02

Signal word (GHS-US)

: Warning

Hazard statements (GHS-US)

: Flammable liquid and vapor

Precautionary statements (GHS-US)

: Keep away from heat source and sparks . No smoking near container.  
Keep container tightly closed  
Ground/Bond container and receiving equipment  
Use explosion-proof manufacturing equipment  
Use only non-sparking tools  
Take precautionary measures against static discharge  
Wear eye protection and protective gloves.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
In case of fire: Use ABC-powder to extinguish  
Store in a well-ventilated place. Keep cool  
Dispose of contents/container to an approved waste disposal plant

##### 2.3. Other hazards

No additional information available

##### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

\*The specific chemical identities of the ingredients in this mixture, as well as, exact concentrations of any hazardous ingredients stated above, are considered trade secrets. This information is withheld in accordance with the provisions of 1910.1200 of the Code of Federal Regulations.

Full text of H-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures general            | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation   | : Allow victim to breathe fresh air. Allow the victim to rest.  |
| First-aid measures after skin contact | : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  |
| First-aid measures after eye contact  | : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.                         |
| First-aid measures after ingestion    | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.  |

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

|                  |  |
|------------------|--|
| Symptoms/effects | : Not expected to present a significant hazard under anticipated conditions of normal use. |
|------------------|--|

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.                     |

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

|                  |   |
|------------------|---|
| Fire hazard      | : Flammable liquid and vapor.                     |
| Explosion hazard | : May form flammable/explosive vapor-air mixture. |

### 5.3. Advice for firefighters

|                                |   |
|--------------------------------|---|
| Firefighting instructions      | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection.   |

## SECTION 6: Accidental release measures

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

|                  |   |
|------------------|---|
| General measures | : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. |
|------------------|---|

#### 6.1.1. For non-emergency personnel

|                      |                                   |
|----------------------|-----------------------------------|
| Emergency procedures | : Evacuate unnecessary personnel. |
|----------------------|-----------------------------------|

#### 6.1.2. For emergency responders

|                      |  |
|----------------------|--|
| Protective equipment | : Equip cleanup crew with proper protection. |
| Emergency procedures | : Ventilate area.                            |

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

|                         |  |
|-------------------------|--|
| Methods for cleaning up | : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. |
|-------------------------|--|

## 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.  
Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools.

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

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof manufacturing equipment.  
Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container tightly closed.  
Incompatible products : Strong bases. Strong acids.  
Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| 0280 - Pear Flavor, Natural |                |
|-----------------------------|----------------|
| ACGIH                       | Not applicable |
| OSHA                        | Not applicable |

### 8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.  
  
Hand protection : Wear eye protection and protective gloves. protective gloves.  
Eye protection : Chemical goggles or safety glasses.  
Respiratory protection : Wear appropriate mask.  
Other information : Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

Physical state : Liquid  
Color : Refer to specification sheet  
Odor : characteristic  
Odor threshold : No data available  
pH : No data available  
Relative evaporation rate (butyl acetate=1) : No data available  
Melting point : No data available  
Freezing point : No data available  
Boiling point : > 100 °F  
Flash point : 138 °F  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
Flammability (solid, gas) : No data available

|                                 |                                      |
|---------------------------------|--------------------------------------|
| Vapor pressure                  | : No data available                  |
| Relative vapor density at 20 °C | : No data available                  |
| Relative density                | : No data available                  |
| Specific gravity / density      | : 1.017                              |
| Solubility                      | : Miscible with water.<br>Water: N/A |
| Log Pow                         | : No data available                  |
| Log Kow                         | : No data available                  |
| Viscosity, kinematic            | : No data available                  |
| Viscosity, dynamic              | : No data available                  |
| Explosive properties            | : No data available                  |
| Oxidizing properties            | : No data available                  |
| Explosion limits                | : No data available                  |

## 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| Proprietary Flavor Ingredient - p322 |  |
|--------------------------------------|--|
| LD50 oral rat                        | 20000 mg/kg (Rat; Experimental value)  |
| LD50 dermal rat                      | 22500 mg/kg (Rat; Experimental value)  |
| LD50 dermal rabbit                   | 20800 mg/kg (Rabbit; Experimental value)   |
| ATE US (oral)                        | 20000 mg/kg body weight  |
| ATE US (dermal)                      | 20800 mg/kg body weight  |
| Proprietary Flavor Ingredient - p324 |  |
| LD50 oral rat                        | 10740 mg/kg body weight (Rat; OECD 401: Acute Oral Toxicity; Experimental value) |
| LD50 dermal rabbit                   | > 16000 mg/kg (Rabbit; Literature study)   |
| ATE US (oral)                        | 10740 mg/kg body weight  |

|                                   |                  |
|-----------------------------------|------------------|
| Skin corrosion/irritation         | : Not classified |
| Serious eye damage/irritation     | : Not classified |
| Respiratory or skin sensitization | : Not classified |

|   |   |
|---|---|
| Germ cell mutagenicity                              | : Not classified  |
| Carcinogenicity                                     | : Not classified  |
| Reproductive toxicity                               | : Not classified  |
| Specific target organ toxicity – single exposure    | : Not classified  |
| Specific target organ toxicity – repeated exposure  | : Not classified  |
| Aspiration hazard                                   | : Not classified  |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |

## SECTION 12: Ecological information

### 12.1. Toxicity

| Proprietary Flavor Ingredient - p322 |  |
|--------------------------------------|--|
| EC50 Daphnia 1                       | 34400 mg/l (EC50; 48 h)  |
| LC50 fish 2                          | 51600 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Oncorhynchus mykiss)                          |
| Proprietary Flavor Ingredient - p324 |  |
| LC50 fish 1                          | 14200 mg/l (LC50; US EPA; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value) |

### 12.2. Persistence and degradability

| 0280 - Pear Flavor, Natural          |   |
|--------------------------------------|---|
| Persistence and degradability        | Not established.  |
| Proprietary Flavor Ingredient - p322 |   |
| Persistence and degradability        | Readily biodegradable in water. Biodegradable in the soil.                        |
| Biochemical oxygen demand (BOD)      | 0.96 - 1.08 g O <sub>2</sub> /g substance   |
| Chemical oxygen demand (COD)         | 1.63 g O <sub>2</sub> /g substance  |
| ThOD                                 | 1.69 g O <sub>2</sub> /g substance  |
| BOD (% of ThOD)                      | 0.57  |
| Proprietary Flavor Ingredient - p324 |   |
| Persistence and degradability        | Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil. |
| Biochemical oxygen demand (BOD)      | 0.8 - 0.967 g O <sub>2</sub> /g substance   |
| Chemical oxygen demand (COD)         | 1.7 g O <sub>2</sub> /g substance   |
| ThOD                                 | 2.1 g O <sub>2</sub> /g substance   |
| BOD (% of ThOD)                      | 0.43  |

### 12.3. Bioaccumulative potential

| 0280 - Pear Flavor, Natural          |  |
|--------------------------------------|--|
| Bioaccumulative potential            | Not established.   |
| Proprietary Flavor Ingredient - p322 |  |
| Log Pow                              | -1.41 - -0.30 (-0.92; Experimental value; -1.07; Experimental value; Equivalent or similar to OECD 107; 20.5 °C) |
| Bioaccumulative potential            | Not bioaccumulative.   |
| Proprietary Flavor Ingredient - p324 |  |
| BCF fish 1                           | 1 (BCF; Other; 72 h; Cyprinus carpio; Static system; Fresh water; Read-across)                                   |
| Log Pow                              | -0.31 (Experimental value)   |
| Bioaccumulative potential            | Low potential for bioaccumulation (Log Kow < 4).   |

### 12.4. Mobility in soil

## Proprietary Flavor Ingredient - p322

Surface tension 0.036 N/m (25 °C)

## Proprietary Flavor Ingredient - p324

Surface tension 0.022 N/m (20 °C)

Log Koc Koc,PCKOCWIN v1.66; 1; Read-across

## 12.5. Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No known effects from this product.

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to an approved waste disposal plant.

Additional information : Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with DOT

Transport document description : UN1197 Extracts, flavoring, liquid, 3, III

UN-No.(DOT) : UN1197

Proper Shipping Name (DOT) : Extracts, flavoring, liquid

Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : III - Minor Danger

DOT Special Provisions (49 CFR 172.102) : B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T2 - 1.5 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling =  $97 / 1 + a (tr - tf)$  Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203

DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 60 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 220 L

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

## Additional information

Emergency Response Guide (ERG) Number : 127

Other information : No supplementary information available.

## ADR

No additional information available

## Transport by sea

UN-No. (IMDG) : 1197

Proper Shipping Name (IMDG) : EXTRACTS, FLAVORING, LIQUID

Class (IMDG) : 3 - Flammable liquids

Packing group (IMDG) : III - substances presenting low danger

## Air transport

UN-No. (IATA) : 1197

Proper Shipping Name (IATA) : Extracts, flavouring, liquid

Class (IATA) : 3 - Flammable Liquids

Packing group (IATA) : III - Minor Danger

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Proprietary Flavor Ingredient - p322

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Proprietary Flavor Ingredient - p324

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

### 15.2.2. National regulations

### 15.3. US State regulations

#### Proprietary Flavor Ingredient - p322

U.S. - New Jersey - Right to Know Hazardous Substance List

#### Proprietary Flavor Ingredient - p324

U.S. - New Jersey - Right to Know Hazardous Substance List

## SECTION 16: Other information

### Other information

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### Full text of H-phrases:

|      |                            |
|------|----------------------------|
| H226 | Flammable liquid and vapor |
|------|----------------------------|