Office (800)862-8620 Fax (517)882-0507

# 0630 - Pistachio Flavor, Natural/Artificial

# Safety Data Sheet

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

Date of issue: 10/31/2019 Version: 4

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

#### 1.1. Product identifier

Product name : 0630 - Pistachio Flavor, Natural/Artificial

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

### 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. 4 H227 Skin Sens. 1 H317

Full text of H statements: see section 16

### 2.2. Label elements

# **GHS-US labeling**

Hazard pictograms (GHS-US)



GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : Combustible liquid

May cause an allergic skin reaction

Precautionary statements (GHS-US) : Keep away from heat source and sparks . No smoking near container.

Avoid breathing fumes

Contaminated work clothing must not be allowed out of the workplace

Wear eye protection and protective gloves. IF ON SKIN: Wash with plenty of soap and water Specific treatment (see Safety Data Sheet)

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse 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

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# SECTION 3: Composition/Information on ingredients

#### **Substances** 3.1.

Not applicable

#### 3.2. **Mixtures**

Name	%	GHS-US classification
Proprietary Flavor Ingredient - P226	16.847 - 20.293	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Aquatic Acute 3, H402
Proprietary Flavor Ingredient - P222	0.397 - 0.479	Flam. Liq. 2, H225 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 2, H373

<sup>\*</sup>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**

#### **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 affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see Safety Data Sheet). Wash contaminated clothing before reuse.

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.

# Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : May cause an allergic skin reaction.

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

No additional information available

#### **SECTION 5: Firefighting measures**

#### **Extinguishing media** 5.1.

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : Combustible liquid.

Explosion hazard : May form flammable/explosive vapor-air mixture.

#### **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**

#### 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.

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#### **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. Keep away from

heat source and sparks . No smoking near container.

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. Avoid breathing fumes.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated

clothing before reuse.

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

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container

closed when not in use. Keep in fireproof place.

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

0630 - Pistachio Flavor, Natural/Artificial

ACGIH	Not applicable	
OSHA	Not applicable	
Proprietary Flavor Ingredient - P226		

Proprietary Flavor Ingredient - P222	
ACGIH	Not applicable
OSHA	Not applicable

#### 8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Not applicable

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.

**OSHA** 

# **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 pН : No data available Relative evaporation rate (butyl acetate=1) : No data available Melting point : No data available Freezing point : No data available : > 100 °F Boiling point Flash point : 143.9 °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 : 1.0435
Solubility : Soluble in oil.
Water: No

: No data available: 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

Log Pow

No additional information available

### 10.2. Chemical stability

Combustible liquid. 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**

### **Information on toxicological effects**

: Not classified Acute toxicity

Proprietary Flavor Ingredient -	P226
LD50 oral rat	1300 mg/kg (Rat)
LD50 dermal rat	> 1250 mg/kg (Rat)
LD50 dermal rabbit	5000 mg/kg (Rabbit)
ATE US (oral)	1300 mg/kg body weight
ATE US (dermal)	5000 mg/kg body weight
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 -	P124
LD50 oral rat	2700 mg/kg (Rat)
LD50 dermal rat	> 5000 mg/kg (Rat)
ATE US (oral)	2700 mg/kg body weight
Proprietary Flavor Ingredient -	P280
LD50 oral rat	2800 mg/kg (Rat)
LD50 dermal rabbit	> 5010 mg/kg (Rabbit)
ATE US (oral)	2800 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
Proprietary Flavor Ingredient -	P222
LD50 oral rat	3000 mg/kg (Rat)
LD50 dermal rat	> 2500 mg/kg
ATE US (oral)	3000 mg/kg body weight

Propr	Proprietary Flavor Ingredient - P222	
LD50 (	oral rat	3000 mg/kg (Rat)
LD50 (	dermal rat	> 2500 mg/kg
ATE U	S (oral)	3000 mg/kg body weight

Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : May cause an allergic skin reaction.

: Not classified Germ cell mutagenicity 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.

Symptoms/effects after inhalation : May cause an allergic skin reaction.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Proprietary Flavor Ingredient - P226		
EC50 Daphnia 1	50 mg/l (EC50; 24 h)	
LC50 fish 2	11.2 mg/l (LC50; 96 h; Salmo gairdneri)	
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 - P280		
LC50 fish 1	115 (100 - 131) mg/l (24 h; Pimephales promelas)	
EC50 Daphnia 1	180 mg/l (EC50; 24 h)	
LC50 fish 2	105 (88 - 121) mg/l (96 h; Pimephales promelas)	
Threshold limit algae 1	2 mg/l (EC0; 72 h)	
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

0630 - Pistachio Flavor, Natural/Artificial		
Persistence and degradability	Not established.	
Proprietary Flavor Ingredient - P226		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil.	
Biochemical oxygen demand (BOD)	1.62 g O <sub>2</sub> /g substance	
Chemical oxygen demand (COD)	1.98 g O <sub>2</sub> /g substance	
ThOD	2.42 g O <sub>2</sub> /g substance	
BOD (% of ThOD)	0.67	
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 - P124		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.	
. crosseries and degradability		
ThOD	1.71 g O <sub>2</sub> /g substance	
	1.71 g O <sub>2</sub> /g substance	
ThOD	1.71 g O <sub>2</sub> /g substance  Inherently biodegradable.	
ThOD Proprietary Flavor Ingredient - P280		
ThOD  Proprietary Flavor Ingredient - P280  Persistence and degradability		
ThOD  Proprietary Flavor Ingredient - P280  Persistence and degradability  Proprietary Flavor Ingredient - p324	Inherently biodegradable.	
ThOD  Proprietary Flavor Ingredient - P280  Persistence and degradability  Proprietary Flavor Ingredient - p324  Persistence and degradability	Inherently biodegradable.  Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.	
ThOD  Proprietary Flavor Ingredient - P280  Persistence and degradability  Proprietary Flavor Ingredient - p324  Persistence and degradability  Biochemical oxygen demand (BOD)	Inherently biodegradable.  Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.  0.8 - 0.967 g O <sub>2</sub> /g substance	
ThOD  Proprietary Flavor Ingredient - P280  Persistence and degradability  Proprietary Flavor Ingredient - p324  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)	Inherently biodegradable.  Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.  0.8 - 0.967 g O <sub>2</sub> /g substance  1.7 g O <sub>2</sub> /g substance	
ThOD  Proprietary Flavor Ingredient - P280  Persistence and degradability  Proprietary Flavor Ingredient - p324  Persistence and degradability  Biochemical oxygen demand (BOD)  Chemical oxygen demand (COD)  ThOD	Inherently biodegradable.  Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.  0.8 - 0.967 g O <sub>2</sub> /g substance  1.7 g O <sub>2</sub> /g substance  2.1 g O <sub>2</sub> /g substance	

# 12.3. Bioaccumulative potential

0630 - Pistachio Flavor, Natural/Artificial		
Bioaccumulative potential	Not established.	
Proprietary Flavor Ingredient - P226		
BCF other aquatic organisms 1	4.2 - 7.8 (BCF)	
Log Pow	1.48 (Experimental value)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Proprietary Flavor Ingredient - p322		
Log Pow	-1.410.30 (-0.92; Experimental value; -1.07; Experimental value; Equivalent or similar to OECD 107; 20.5 °C)	
Bioaccumulative potential	Not bioaccumulative.	
Proprietary Flavor Ingredient - P124		
Log Pow	1.05	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Proprietary Flavor Ingredient - P280		
Log Pow	1.21 - 1.37	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
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).	
Proprietary Flavor Ingredient - P222		
Bioaccumulative potential	No bioaccumulation data available.	

# 12.4. Mobility in soil

Proprietary Flavor Ingredient - P226		
Surface tension	0.04 N/m (20 °C)	
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 Not regulated for transport

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#### **Additional information**

Other information

: No supplementary information available.

#### **ADR**

No additional information available

#### Transport by sea

No additional information available

#### Air transport

No additional information available

# **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

### **Proprietary Flavor Ingredient - P226**

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

### **Proprietary Flavor Ingredient - p322**

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

# **Proprietary Flavor Ingredient - P124**

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

# **Proprietary Flavor Ingredient - P280**

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

#### **Proprietary Flavor Ingredient - P222**

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 - P226**

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

# **Proprietary Flavor Ingredient - p322**

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

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# **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:

<u> </u>	
H225	Highly flammable liquid and vapor
H227	Combustible liquid
H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H373	May cause damage to organs through prolonged or repeated
	exposure
H402	Harmful to aquatic life