

# 0495 – Colorless Tutti Frutti Flavor, Natural/Artificial

## Safety Data Sheet

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

Date of issue: 09/28/2015 Version: 1

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

#### 1.1. Product identifier

Product name : 0495 – Colorless Tutti Frutti 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

##### Classification (GHS-US)

Flam. Liq. 4 H227  
Aquatic Acute 3 H402  
Full text of H-phrases: see section 16

#### 2.2. Label elements

##### GHS-US labeling

Signal word (GHS-US) : Warning  
Hazard statements (GHS-US) : Combustible liquid  
Harmful to aquatic life  
Precautionary statements (GHS-US) : Keep away from heat source and sparks . No smoking near container.  
Avoid release to the environment  
Wear eye protection and protective gloves.  
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. Substance

Not applicable

#### 3.2. Mixture

Name	%	Classification (GHS-US)
Proprietary Flavor Ingredient - P106	1.59 - 1.92	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Aquatic Acute 2, H401
Proprietary Flavor Ingredient - P226	0.95 - 1.14	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Aquatic Acute 2, H401

\*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 affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : If swallowed, rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

- Symptoms/injuries : 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 : Combustible liquid.
- 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. Avoid release to the environment.

## 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.

### 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

#### 0495 – Colorless Tutti Frutti Flavor, Natural/Artificial

ACGIH	Not applicable
OSHA	Not applicable

#### Proprietary Flavor Ingredient - P226

ACGIH	Not applicable
OSHA	Not applicable

#### Proprietary Flavor Ingredient - P106

ACGIH	Not applicable
OSHA	Not applicable

#### Proprietary Flavor Ingredient - 785

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	: No data available
Flash point	: 144 °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	: 1.037
Solubility	: Miscible with water. 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
Explosive 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

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

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

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)	1300.000 mg/kg body weight
ATE US (dermal)	5000.000 mg/kg body weight

Proprietary Flavor Ingredient - P106	
LD50 oral rat	1620 mg/kg body weight (Rat; Experimental value)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Experimental value)
ATE US (oral)	1620.000 mg/kg body weight
ATE US (dust, mist)	1.500 mg/l/4h

Proprietary Flavor Ingredient - P261	
LD50 oral rat	3000 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	> 1.72 mg/l/4h (Rat)
ATE US (oral)	3000.000 mg/kg body weight

Proprietary Flavor Ingredient - P181	
LD50 oral rat	5470 mg/kg (Rat)
ATE US (oral)	5470.000 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)	20000.000 mg/kg body weight
ATE US (dermal)	20800.000 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)	10740.000 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

Ecology - water : Harmful to aquatic life.

Proprietary Flavor Ingredient - P226	
LC50 fish 1	1.1 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 1	50 mg/l (24 h; Daphnia magna)
EC50 other aquatic organisms 1	534 mg/l (5 h; Bacteria; Activated sludge)
LC50 fish 2	11.2 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
Threshold limit other aquatic organisms 1	132 mg/l (Pseudomonas putida)
Threshold limit algae 1	100 mg/l (336 h; Chlorella sp.; Inhibitory)
Threshold limit algae 2	34 mg/l (Scenedesmus quadricauda)

Proprietary Flavor Ingredient - P106	
LC50 fish 1	460 mg/l (96 h; Pimephales promelas; Nominal concentration)
EC50 Daphnia 1	400 mg/l (48 h; Daphnia magna; GLP)
LC50 fish 2	10 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 2	230 mg/l (48 h; Daphnia magna)
Threshold limit other aquatic organisms 1	< 658 mg/l (16 h; Pseudomonas putida)
Threshold limit algae 1	640 ppm (96 h; Scenedesmus quadricauda)
Threshold limit algae 2	2600 mg/l (72 h; Algae)

Proprietary Flavor Ingredient - P261	
LC50 fish 1	170 mg/l (48 h; Leuciscus idus)
EC50 Daphnia 1	380 mg/l (48 h; Daphnia magna)
LC50 fish 2	174 mg/l (48 h; Cyprinus carpio)

Proprietary Flavor Ingredient - p322	
LC50 fish 1	51400 mg/l (96 h; Pimephales promelas)
LC50 other aquatic organisms 1	> 1000 mg/l (96 h)
EC50 Daphnia 1	34400 mg/l (48 h; Daphnia magna)
LC50 fish 2	51600 mg/l (96 h; Oncorhynchus mykiss)
TLM fish 1	> 1000 ppm (96 h; Pisces)
TLM other aquatic organisms 1	> 1000 ppm (96 h)
Threshold limit other aquatic organisms 1	> 1000 mg/l (96 h)
Threshold limit algae 1	15000 mg/l (336 h; Selenastrum capricornutum)
Threshold limit algae 2	< 5300 mg/l (336 h; Skeletonema costatum)

Proprietary Flavor Ingredient - p324	
LC50 fish 1	14200 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 1	9300 mg/l (48 h; Daphnia magna)
LC50 fish 2	13000 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	10800 mg/l (24 h; Daphnia magna)
Threshold limit other aquatic organisms 1	65 mg/l (72 h; Protozoa)
Threshold limit algae 1	1450 mg/l (192 h; Microcystis aeruginosa; Growth rate)
Threshold limit algae 2	5000 mg/l (168 h; Scenedesmus quadricauda; Growth rate)

### 12.2. Persistence and degradability

0495 – Colorless Tutti Frutti 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

<b>Proprietary Flavor Ingredient - P226</b>	
ThOD	2.42 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.67 % ThOD
<b>Proprietary Flavor Ingredient - P106</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. No (test) data on mobility of the substance available.
Biochemical oxygen demand (BOD)	1.6 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.4 g O <sub>2</sub> /g substance
ThOD	2.5 g O <sub>2</sub> /g substance
<b>Proprietary Flavor Ingredient - P261</b>	
Persistence and degradability	Readily biodegradable in water.
<b>Proprietary Flavor Ingredient - P181</b>	
Persistence and degradability	Biodegradability in water: no data available.
<b>Proprietary Flavor Ingredient - p322</b>	
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 % ThOD
<b>Proprietary Flavor Ingredient - p324</b>	
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)	1.70 g O <sub>2</sub> /g substance
ThOD	2.10 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.43 % ThOD
<b>12.3. Bioaccumulative potential</b>	
<b>0495 – Colorless Tutti Frutti Flavor, Natural/Artificial</b>	
Bioaccumulative potential	Not established.
<b>Proprietary Flavor Ingredient - P226</b>	
BCF other aquatic organisms 1	4.2 - 7.8 (Estimated value)
Log Pow	1.48 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>Proprietary Flavor Ingredient - P106</b>	
Log Pow	1.05 (Experimental value; Other; 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>Proprietary Flavor Ingredient - P261</b>	
BCF fish 1	1.3 (109 h; Estimated value)
Log Pow	0.1 - 0.36
Bioaccumulative potential	Bioaccumable.
<b>Proprietary Flavor Ingredient - P181</b>	
Bioaccumulative potential	No bioaccumulation data available.
<b>Proprietary Flavor Ingredient - p322</b>	
Log Pow	-1.41 - -0.30
Bioaccumulative potential	Not bioaccumulative.
<b>Proprietary Flavor Ingredient - p324</b>	
BCF fish 1	1 (72 h; Cyprinus carpio)
Log Pow	-0.31 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

## 12.4. Mobility in soil

### Proprietary Flavor Ingredient - P226

Surface tension	0.040 N/m (20 °C)
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### Proprietary Flavor Ingredient - P106

Surface tension	0.04 N/m (20 °C)
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### Proprietary Flavor Ingredient - p322

Surface tension	0.036 N/m (25 °C)
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### Proprietary Flavor Ingredient - p324

Surface tension	0.022 N/m (20 °C)
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## 12.5. Other adverse effects

Effect on ozone layer :  
Effect on the global warming : No known ecological damage caused by this product.  
Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste 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

### 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
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#### Proprietary Flavor Ingredient - P106

Listed on the United States TSCA (Toxic Substances Control Act) inventory
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#### Proprietary Flavor Ingredient - P261

Listed on the United States TSCA (Toxic Substances Control Act) inventory
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#### Proprietary Flavor Ingredient - P181

Listed on the United States TSCA (Toxic Substances Control Act) inventory
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## Proprietary Flavor Ingredient - 785

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 - 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 - 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

## Proprietary Flavor Ingredient - p324

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

## SECTION 16: Other information

Other information

: **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H-phrases:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Asp. Tox. 1	Aspiration hazard Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 4	Flammable liquids Category 4
Muta. 2	Germ cell mutagenicity Category 2
H227	Combustible liquid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H319	Causes serious eye irritation
H332	Harmful if inhaled
H341	Suspected of causing genetic defects
H401	Toxic to aquatic life
H402	Harmful to aquatic life