# 0282 – Apple Pie Type Flavor, Natural

# Safety Data Sheet

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

Date of issue: 06/28/2016

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

#### 1.1. **Product identifier**

Product name : 0282 - Apple Pie Type Flavor, Natural

Product form : Mixture

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

Use of the substance/mixture : Food industry: component

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

LorAnn Oils, Inc. 4518 Aurelius Road Lansing, MI 48910

Telephone: 1.800.862.8620

#### **Emergency telephone number**

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

# **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

# Classification (GHS-US)

Flam. Liq. 3 H226 Skin Sens. 1 H317

Full text of H-phrases: see section 16

#### 2.2. **Label elements**

# **GHS-US labeling**

Hazard pictograms (GHS-US)



GHS02 GHS07

Signal word (GHS-US)

: Warning

Hazard statements (GHS-US)

: Flammable liquid and vapor

May cause an allergic skin reaction

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

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

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower

Specific treatment (see Safety Data Sheet)

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If skin irritation or rash occurs: Get medical advice/attention Take off contaminated clothing and wash it before reuse In case of fire: Use ABC powder to extinguish

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 - P120	0.9 - 1.08	Acute Tox. 4 (Oral), H302
Proprietary Flavor Ingredient - P222	0.21 - 0.25	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**

#### 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. 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

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 after inhalation : May cause an allergic skin reaction.

# 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.

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#### 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.

: Do not enter fire area without proper protective equipment, including respiratory protection. Protection during firefighting

## **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.

#### For emergency responders 6.1.2.

Protective equipment : Equip cleanup crew with proper protection.

: Ventilate area. **Emergency procedures** 

#### 6.2. **Environmental precautions**

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

#### 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.

: Wash hands and other exposed areas with mild soap and water before eating, drinking or Precautions for safe handling

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. Avoid breathing fumes.

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

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

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.

# Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

## **Control parameters**

Proprietary Flavor Ingredient – P120		
ACGIH	Not applicable	
OSHA	Not applicable	
Proprietary Flavor Ingredient - P122		
Proprietary Flavor Ingredie	ent - P122	
<b>Proprietary Flavor Ingredio</b> ACGIH	ent - P122  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 рΗ : No data available Relative evaporation rate (butyl acetate=1) : No data available Melting point : No data available : No data available Freezing point Boiling point : > 100 °F : 102.1 °F Flash point

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 : 1.022

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

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.

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# 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

Description: Elever Ingredient #222		
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 - P120		
LD50 oral rat	1410 mg/kg (Rat)	
ATE US (oral)	1410.000 mg/kg body weight	
Proprietary Flavor Ingredient - P222		
LD50 oral rat	3000 mg/kg (Rat)	
LD50 dermal rat	> 2500 mg/kg	
ATE US (oral)	3000.000 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	
Proprietary Flavor Ingredient - p314		
LD50 oral rat	>10000 mg/kg (Rat)	

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

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

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.  $% \label{eq:classification} % \label{eq:clas$ 

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

# **SECTION 12: Ecological information**

## 12.1. Toxicity

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

0282 - Apple Pie Type 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 % ThOD	
Proprietary Flavor Ingredient - P120		
Persistence and degradability	Biodegradability in water: no data available.	
ThOD	1.52 g O <sub>2</sub> /g substance	
Proprietary Flavor Ingredient - P222		
Persistence and degradability	Biodegradability in water: no data available.	
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)	1.70 g O <sub>2</sub> /g substance	
ThOD	2.10 g O <sub>2</sub> /g substance	
BOD (% of ThOD)	0.43 % ThOD	
Proprietary Flavor Ingredient - P204		
ThOD	2.34 g O <sub>2</sub> /g substance	

# 12.3. Bioaccumulative potential

0282 - Apple Pie Type Flavor, Natural		
Bioaccumulative potential	Not established.	
Proprietary Flavor Ingredient - p322		
Log Pow	-1.410.30	
Bioaccumulative potential	Not bioaccumulative.	

Proprietary Flavor Ingredient - P120		
Log Pow	0.09 (Experimental value)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Proprietary Flavor Ingredient - P222		
Bioaccumulative potential	No bioaccumulation data available.	
Proprietary Flavor Ingredient - p324		
BCF fish 1	1 (72 h; Cyprinus carpio)	
Log Pow	-0.31 (Experimental value)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Proprietary Flavor Ingredient - P204		
Log Pow	2.26	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Proprietary Flavor Ingredient – P314		
Bioaccumulative potential	No bioaccumulation data available.	

# 12.4. Mobility in soil

Proprietary Flavor Ingredient - p322		
Surface tension	0.036 N/m (25 °C)	
Proprietary Flavor Ingredient - p324		
Proprietary Flavor Ingredient - p324		
Surface tension	0.022 N/m (20 °C)	

#### 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

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

UN-No.(DOT) : UN1197

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

Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : III - Minor Danger

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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 : 60 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L

CFR 175.75)

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**

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 - P120**

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

# **Proprietary Flavor Ingredient - p324**

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

#### **Proprietary Flavor Ingredient - P204**

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

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#### Proprietary Flavor Ingredient - P314

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

: 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:

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Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Skin Sens. 1	Skin sensitization Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H373	May cause damage to organs (lungs) through prolonged or repeated exposure of inhalation.