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

# 0412 - Key Lime Flavor, Natural WONF

## Safety Data Sheet

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

Date of issue: 05/14/2015 Version: 1

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

#### 1.1. Product identifier

Product name : 0412 - Key Lime Flavor, Natural WONF

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. 3 H226 Skin Irrit. 2 H315 Skin Sens. 1 H317 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

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

Causes skin irritation

May cause an allergic skin reaction

Very toxic to aquatic life with long lasting effects

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

Wash both hands thoroughly after handling

Contaminated work clothing must not be allowed out of the workplace

Avoid release to the environment

Wear eye protection and protective gloves.

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

water/shower

Specific treatment (see Safety Data Sheet)

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

Collect spillage

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 - P293	64.36 - 77.53	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Proprietary Flavor Ingredient - 57	13.17 - 15.86	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Proprietary Flavor Ingredient - P316	4.57 - 5.51	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Skin Sens. 1, H317

<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. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see Safety Data Sheet). If skin irritation or rash occurs:

First-aid measures after eye contact

: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

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

Symptoms/injuries after skin contact : Causes skin irritation.

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

No additional information available

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## **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. Avoid release to the environment.

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

Methods for cleaning up : Soak up spills with in

: 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. Avoid breathing fumes.

Hygiene measures : Wash both hands thoroughly after handling. 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 proc

: 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

0412 Var Line Flavor Natural WONI

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

0412 - Key Lime Flavor, Natural WONF	
ACGIH	Not applicable
OSHA	Not applicable
Proprietary Flavor Ingredient - 57	

Proprietary Flavor Ingredient - 57		
ACGIH	Not applicable	
OSHA	Not applicable	

Proprietary Flavor Ingredient - P293	
ACGIH	Not applicable
OSHA	Not applicable

Proprietary Flavor Ingredient - P316		
ACGIH	ACGIH TWA (ppm)	5 ppm
ACGIH	ACGIH STEL (ppm)	5 ppm
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.
Skin and body protection : Wear suitable protective clothing.

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 : 6 (5 - 7)

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 : 125 °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 : 0.846

Specific gravity / density : 0.846
Solubility : Soluble in oil.
Water: NO

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Log Pow : No data available
Log Kow : No data available

Viscosity, dynamic

Explosive properties

Cxidizing properties

Explosive limits

No data available

No data available

No data available

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 - P182	
LD50 oral rat	> 5000 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
Proprietary Flavor Ingredient - P293	
LD50 oral rat	4400 mg/kg body weight (Rat; OECD 423: Acute Oral Toxicity – Acute Toxic Class Method; Literature study; > 2000 mg/kg bodyweight; Rat; Read-across)
LD50 dermal rabbit	> 5000 mg/kg body weight (Rabbit; Weight of evidence; Equivalent or similar to OECD 402)
ATE US (oral)	4400.000 mg/kg body weight
Proprietary Flavor Ingredient - P316	
LD50 oral rat	4960 mg/kg (Rat)
LD50 dermal rat	> 2000 mg/kg (Rat)
LD50 dermal rabbit	2250 mg/kg (Rabbit)
ATE US (oral)	4960.000 mg/kg body weight
ATE US (dermal)	2250.000 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
	pH: 6 (5 - 7)
Serious eye damage/irritation	: Not classified
	pH: 6 (5 - 7)
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified

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Carcinogenicity : Not classified

**Proprietary Flavor Ingredient - P293** 

IARC group 3 - Not classifiable

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/injuries after inhalation

symptoms

: Based on available data, the classification criteria are not met.

Symptoms/injuries after skin contact : Causes skin irritation.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - water : Very toxic to aquatic life with long lasting effects.

Proprietary Flavor Ingredient - P293	
LC50 fish 1	720 μg/l (96 h; Pimephales promelas; Lethal)
EC50 Daphnia 1	0.36 mg/l (48 h; Daphnia magna; GLP)
LC50 fish 2	702 μg/l (96 h; Pimephales promelas)
Threshold limit algae 1	150 mg/l (72 h; Desmodesmus subspicatus; GLP)
Threshold limit algae 2	2.62 mg/l (72 h; Desmodesmus subspicatus)

: May cause an allergic skin reaction.

## 12.2. Persistence and degradability

0412 - Key Lime Flavor, Natural WONF		
Persistence and degradability	Not established.	
Proprietary Flavor Ingredient - P29	3	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Adsorbs into the soil.	
ThOD	3.29 g O <sub>2</sub> /g substance	
Proprietary Flavor Ingredient - P316		
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Ozonation in the air. Photodegradation in the air.	

### 12.3. Bioaccumulative potential

0412 - Key Lime Flavor, Natural WONF	
Bioaccumulative potential	Not established.
Proprietary Flavor Ingredient - P2	93
BCF fish 1	864.8 - 1022 (Pisces; Fresh weight)
Log Pow	4.38 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 37 °C)
Bioaccumulative potential	Potential for bioaccumulation ( $4 \ge \text{Log Kow} \le 5$ ).
Proprietary Flavor Ingredient - P316	
Log Pow	2.76 - 3.45 (Estimated value)
Bioaccumulative potential	Bioaccumable.

## 12.4. Mobility in soil

No additional information available

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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

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

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.

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#### **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 - P182**

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

## **Proprietary Flavor Ingredient - P293**

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

#### **Proprietary Flavor Ingredient - P316**

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

## **SECTION 16: Other information**

Other information

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## Full text of H-phrases:

ext of 11 philases:	
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
H226	Flammable liquid and vapor
H227	Combustible liquid
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects