

0410 - Keoke Coffee Flavor, Natural/Artificial
Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Date of issue: 05/08/2015 Version: 1

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

1.1. Product identifier

Product name : 0410 - Keoke Coffee 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)

Not classified

2.2. Label elements

GHS-US labeling

No labeling applicable

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 - P310 | 1.04 - 1.25 | Flam. Liq. 3, H226 Skin Corr. 1B, H314 Aquatic Acute 3, H402 |

*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 | : 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

No additional information available

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

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

| | |
|-------------------------------|---|
| 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. |
|-------------------------------|---|

7.2. Conditions for safe storage, including any incompatibilities

| | |
|------------------------|---|
| Storage conditions | : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use. |
| Incompatible products | : Strong bases. Strong acids. |
| Incompatible materials | : Sources of ignition. Direct sunlight. |

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| 0410 - Keoke Coffee Flavor, Natural/Artificial | | |
|--|------------------|----------------------|
| ACGIH | Not applicable | |
| OSHA | Not applicable | |
| Proprietary Flavor Ingredient - P310 | | |
| ACGIH | ACGIH TWA (ppm) | 10 ppm |
| ACGIH | ACGIH STEL (ppm) | 10 ppm |
| ACGIH | Remark (ACGIH) | Eye, skin, & URT irr |
| 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 : > 200 °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 : 1.035

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

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

| Proprietary Flavor Ingredient - P175 | |
|--------------------------------------|--|
| LD50 oral rat | 5620 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value; 10200 mg/kg bodyweight; Rat) |
| LD50 dermal rabbit | > 18000 mg/kg (Rabbit; Experimental value; 24 hour cuff method; >20000 mg/kg bodyweight; Rabbit) |
| LC50 inhalation rat (mg/l) | 70.56 mg/l/4h (Rat) |
| LC50 inhalation rat (ppm) | 19600 ppm/4h (Rat) |
| ATE US (oral) | 5620.000 mg/kg body weight |
| ATE US (gases) | 19600.000 ppmV/4h |
| ATE US (vapors) | 70.560 mg/l/4h |
| ATE US (dust, mist) | 70.560 mg/l/4h |
| Proprietary Flavor Ingredient - P185 | |
| LD50 oral rat | 14700 mg/kg (Rat) |
| ATE US (oral) | 14700.000 mg/kg body weight |
| Proprietary Flavor Ingredient - P310 | |
| LD50 oral rat | > 2000 mg/kg (Rat) |
| 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 |

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 - P310 | |
|---|---|
| LC50 fish 1 | 10000 mg/l (96 h; Leuciscus idus) |
| LC50 other aquatic organisms 1 | 500 (100 - 1000) mg/l (96 h; Daphnia magna) |
| LC50 fish 2 | 72 mg/l (48 h; Cyprinus carpio) |
| LC50 other aquatic organisms 2 | 50 mg/l (48 h) |
| TLM fish 1 | 100 - 1000,96 h; Pisces |
| TLM fish 2 | 188 mg/l (24 h; Lepomis macrochirus) |
| TLM other aquatic organisms 1 | 50 mg/l (48 h; Daphnia magna) |
| Threshold limit other aquatic organisms 1 | 100 - 1000,96 h; Daphnia magna |
| Threshold limit other aquatic organisms 2 | 50 mg/l (48 h; Pseudomonas putida) |
| Threshold limit algae 1 | 45.8 mg/l (72 h; Scenedesmus subspicatus) |

12.2. Persistence and degradability

| 0410 - Keoke Coffee Flavor, Natural/Artificial | |
|--|--|
| Persistence and degradability | Not established. |
| Proprietary Flavor Ingredient - P310 | |
| Persistence and degradability | Readily biodegradable in water. Readily biodegradable in water in anaerobic conditions. Biodegradable in the soil. |
| Biochemical oxygen demand (BOD) | 0.77 - 0.92 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 1.420 g O ₂ /g substance |
| ThOD | 1.513 g O ₂ /g substance |
| BOD (% of ThOD) | > % ThOD (5 day(s)) > 0.5 |

12.3. Bioaccumulative potential

| 0410 - Keoke Coffee Flavor, Natural/Artificial | |
|--|--|
| Bioaccumulative potential | Not established. |
| Proprietary Flavor Ingredient - P310 | |
| BCF other aquatic organisms 1 | < 100 |
| Log Pow | 0.25 - 0.33 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

12.4. Mobility in soil

Proprietary Flavor Ingredient - P310

| | |
|-----------------|-------------------|
| Surface tension | 0.027 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.
 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 - 1580

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

Proprietary Flavor Ingredient - P175

Listed on the United States TSCA (Toxic Substances Control Act) inventory
 Not listed on the United States SARA Section 313

| | |
|--|---------|
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 5000 lb |
|--|---------|

Proprietary Flavor Ingredient - P185

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

Proprietary Flavor Ingredient - P310

Listed on the United States TSCA (Toxic Substances Control Act) inventory
 Not listed on the United States SARA Section 313

| | |
|--|---------|
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 5000 lb |
|--|---------|

Proprietary Flavor Ingredient - p322

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 - P175

U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Proprietary Flavor Ingredient - P310

U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Proprietary Flavor Ingredient - p322

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. None.

Full text of H-phrases:

| | |
|-----------------|--|
| Aquatic Acute 3 | Hazardous to the aquatic environment - Acute Hazard Category 3 |
| Flam. Liq. 3 | Flammable liquids Category 3 |
| Skin Corr. 1B | Skin corrosion/irritation Category 1B |
| H226 | Flammable liquid and vapor |
| H314 | Causes severe skin burns and eye damage |
| H402 | Harmful to aquatic life |