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1775 – Key Lime ICF, Natural/Artificial

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

Date of issue: 01/28/2019 Version: 2

| 1.1. Product identifier | |
|---|--|
| | |
| Product name | : 1775 - Key Lime ICF, 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 th | e safety data sheet |
| LorAnn Oils, Inc. 4518 Aurelius Road Lansing, MI 48910 Telephone: 1.800.862.8620 | |
| 1.4. Emergency telephone numl | |
| Emergency number : CHEMTRI | EC: Within USA and Canada: 1.800.424.9300 Outside USA and Canada: +1 703 527 3887 |
| SECTION 2: Hazards identific | ation |
| 2.1. Classification of the substa | |
| Skin Sens. 1 H317 Full text of H statements : see section 16 | |
| 2.2. Label elements | |
| Hazard pictograms (GHS-US) | |
| | CHS07 |
| Signal word (GHS-US) | GHS07 : Warning |
| | |
| Signal word (GHS-US) Hazard statements (GHS-US) Precautionary statements (GHS-US) | : Warning |
| Hazard statements (GHS-US) Precautionary statements (GHS-US) 2.3. Other hazards | Warning May cause an allergic skin reaction 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 |
| Hazard statements (GHS-US) Precautionary statements (GHS-US) | Warning May cause an allergic skin reaction 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 Dispose of contents/container to an approved waste disposal plant |

Substances 3.1.

Not applicable

3.2. **Mixtures**

| Name | % | GHS-US classification |
|-------------------------------------|---------------|---|
| Proprietary Flavor Ingredient - 870 | 0.711 - 0.856 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |

*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. 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. | | |
| 4.2. Most important symptoms and effe | ects, both acute and delayed | | |
| Symptoms/effects after inhalation | : May cause an allergic skin reaction. | | |
| | al 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 su | Ibstance 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 mea | asures | | |
| 6.1. Personal precautions, protective e | quipment 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 containn | nent 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 | I. Reference to other sections | | |
|--|--|--|--|
| See Heading 8. Exposure controls and personal protection. | | | |
| CECTION 7. Handling and starses | | | |
| 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. 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, includ | ing 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. | .1. Control parameters | | |
|--------|--|----------------|--|
| 1775 | 1775 - Key Lime Flavor, Natural/Artificial | | |
| ACGIH | | Not applicable | |
| OSHA | OSHA Not applicable | | |
| Propri | Proprietary Flavor Ingredient - 870 | | |
| 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 an | d 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 |
| Boiling point | : > 100 °F |
| Flash point | : > 200 °F |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| | |

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| - | | |
|---|--------------------------------------|--|
| 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 | : 1.012 | |
| 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 | |
| Explosion limits | : No data available | |
| 9.2. Other information | | |
| No additional information available | | |
| SECTION 10: Stability and r | eactivity | |
| 10.1. Reactivity | | |
| No additional information available | | |
| 10.2. Chemical stability | | |
| Not established. | | |
| 10.3. Possibility of hazardous re | eactions | |
| Not established. | | |
| 10.4. Conditions to avoid | | |
| Direct sunlight. Extremely high or low to | emperatures. | |
| 10.5. Incompatible materials | | |
| Strong acids. Strong bases. | | |
| 10.6. Hazardous decomposition | products | |
| fume. Carbon monoxide. Carbon dioxide | | |
| SECTION 11: Toxicological i | nformation | |
| 11.1. Information on toxicologic | | |
| | | |
| Acute toxicity | : Not classified | |
| Proprietary Flavor Ingredient - p3 | 200 | |

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

| S | SECTION 12: Ecological information | | | | | |
|---|------------------------------------|----------------------------------|--|--|--|--|
| 1 | 2.1. | Toxicity | | | | |
| | | | | | | |
| | Propr | rietary Flavor Ingredient - p322 | | | | |

| 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) | |
| | | |

| 12.2. Persistence and degradability | | | | |
|--|--|--|--|--|
| 1775 - Key Lime Flavor, Natural/Artificial | | | | |
| Persistence and degradability | stence 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 ₂ /g substance | | | |
| Chemical oxygen demand (COD) | 1.63 g O ₂ /g substance | | | |
| ThOD | 1.69 g O ₂ /g substance | | | |
| BOD (% of ThOD) | 0.57 | | | |

12.3. Bioaccumulative potential

| 1775 - Key Lime Flavor, Natural/Artificial | | |
|--|--|--|
| Bioaccumulative potential | Not established. | |
| 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. | |

12.4. Mobility in soil

| Proprietary Flavor Ingredient - p322 | | | |
|--------------------------------------|---------------------------------------|--|--|
| Surface tension | 0.036 N/m (25 °C) | | |
| | | | |
| 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. | | | |
| Ecology - waste materials | : Avoid release to the environment. | | | |

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| 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 | - p322 |
| Listed on the United States TSCA (| (Toxic Substances Control Act) inventory |
| | |
| 15.2. International regulations | |
| CANADA No additional information available | |
| EU-Regulations | |
| No. and diking all informations as welled a | |
| No additional information available | |
| | Ilation (EC) No. 1272/2008 [CLP] |
| Classification according to Regu | Ilation (EC) No. 1272/2008 [CLP] ctive 67/548/EEC [DSD] or 1999/45/EC [DPD] |
| Classification according to Regu Classification according to Direc | |
| Classification according to Regu Classification according to Direct Not classified | |
| | |
| Classification according to Regu Classification according to Direct Not classified 15.2.2. National regulations | |
| Classification according to Regu Classification according to Direct Not classified 15.2.2. National regulations | ctive 67/548/EEC [DSD] or 1999/45/EC [DPD] |

SECTION 16: Other information

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Other information

| Full tex | t of H-phrases: | |
|----------|-----------------|---|
| | H226 | Flammable liquid and vapor |
| | H304 | May be fatal if swallowed and enters airways |
| | H315 | Causes skin irritation |
| | H317 | May cause an allergic skin reaction |
| | H411 | Toxic to aquatic life with long lasting effects |