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0610 - Red Licorice Flavor, Artificial

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/22/2015 Version: 1

	: Identification of the substance/mixture and of the company/undertaking
	uct identifier
Product name	: 0610 - Red Licorice Flavor, Artificial
Product form	: Mixture
1.2. Relev	ant identified uses of the substance or mixture and uses advised against
Use of the subs	ance/mixture : Food industry: component
1.3. Detai	Is of the supplier of the safety data sheet
LorAnn Oils, Inc 4518 Aurelius R Lansing, MI 489 Telephone: 1.80	pad 910
1.4. Emer	gency telephone number
Emergency num	ber : CHEMTREC: Within USA and Canada: 1.800.424.9300 Outside USA and Canada: +1 703 527 3887
SECTION 2	Hazards identification
	ification of the substance or mixture
Classification	
Not classified	(015-05)
NUL CIASSINEU	
2.2. Labe	elements
GHS-US labeli	ng
No labeling app	icable
2.3. Othe	r hazards
No additional in	formation available
2.4. Unkn	own acute toxicity (GHS-US)
Not applicable	
SECTION 3	Composition/information on ingredients
	tance
Not applicable	
3.2. Mixtu	ire
	emical identities of the ingredients in this mixture, as well as, exact concentrations of any hazardous ingredients stated above, are e 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.
	0610 Red Licerice Flaver Artificial

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 e	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 me	dical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measure	95
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 m	easures
6.1. Personal precautions, protective	e 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. No	tify authorities if liquid enters sewers or public waters.
6.3. Methods and material for contain	nment 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 persona	Il protection.
SECTION 7: Handling and storag	e
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, incl	uding 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	
0610 - Red Licorice Flavor	Artificial
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	I 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	: 1.04
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	

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 temperature	es.
10.5. Incompatible materials	
Strong acids. Strong bases.	
10.6. Hazardous decomposition products	
fume. Carbon monoxide. Carbon dioxide.	
SECTION 11: Toxicological informa	tion
11.1. Information on toxicological effect	
	-
Acute toxicity	: Not classified
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
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified : 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 classifiedPotential Adverse human health effects and
symptoms: Based on available data, the classification criteria are not met.

SECTI	ON 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)

Proprietary Flavor Ingredient - p322	
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)
2.2. Persistence and degradability	
0610 - Red Licorice Flavor, Artificial	
Persistence and degradability	Not established.
Proprietary Flavor Ingredient - P181	
Persistence and degradability	Biodegradability in water: no data available.
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 % ThOD
L2.3. Bioaccumulative potential	
0610 - Red Licorice Flavor, Artificial	
Bioaccumulative potential	Not established.
Proprietary Flavor Ingredient - P181	
Bioaccumulative potential	No bioaccumulation data available.
•	
Proprietary Flavor Ingredient - p322 Log Pow	-1.410.30
Bioaccumulative potential	Not bioaccumulative.
·	Not biodecumulative.
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	:
Effect on the global warming	: No known ecological damage caused by this product.
Other information	
Other information	: Avoid release to the environment.
	: Avoid release to the environment.
Other information SECTION 13: Disposal considerati 13.1. Waste treatment methods	: Avoid release to the environment.
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SECTION 13: Disposal considerati 13.1. Waste treatment methods Naste disposal recommendations	: Avoid release to the environment. ons
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SECTION 13: Disposal consideration 13.1. Waste treatment methods Naste disposal recommendations Ecology - waste materials SECTION 14: Transport information in accordance with DOT	 Avoid release to the environment. ons Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.
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SECTION 13: Disposal consideration 13.1. Waste treatment methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with DOT Not regulated for transport Additional information Other information	 Avoid release to the environment. ons Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.
SECTION 13: Disposal consideration 13.1. Waste treatment methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information SECTION 14: Transport information SECTION 14: Transport information More additional information ADR No additional information available	 Avoid release to the environment. ons Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Proprietary Flavor Ingredient - P181

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

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

SECTION 16: Other information

Other information

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