

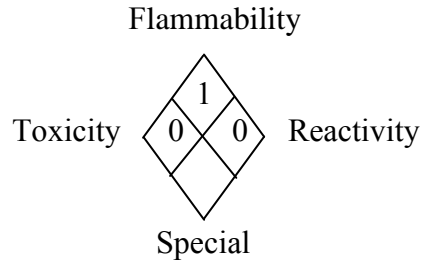
**COLUMBUS VEGETABLE OILS MATERIAL SAFETY DATA SHEET**

**PALM KERNEL FLAKES**  
**CAS NO: 84540-04-5**

**PRODUCT CODE: 701**

**NFPA HAZARD RATING**

- 4 - Extreme
- 3 - High
- 2 - Moderate
- 1 - Slight
- 0 - Insignificant



**HMIS HAZARD INDEX (Hazardous Materials Identification System)**

- 4 - Severe
- 3 - Serious
- 2 - Moderate
- 1 - Slight
- 0 - Minimal

**HMIS RATINGS**

Health	<u>0</u>
Flammability	<u>1</u>
Reactivity	<u>0</u>
Personal Protection	<u>        </u>

**SECTION I - DIVISION AND LOCATION**

**Division:** Columbus Vegetable Oils  
**Location:** 30 E. Oakton St., Des Plaines, IL. 60018

**Emergency Telephone Number:** (800) 322-6457

**SECTION II - CHEMICAL AND PHYSICAL PROPERTIES**

<b><u>Chemical Name</u></b>	Mixed Triglycerides
<b><u>Formula</u></b>	Palm Stearines
<b><u>Hazardous Decomposition Products</u></b>	Carbon monoxide and carbon dioxide from burning
<b><u>Incompatibility (Keep Away From)</u></b>	Strong oxidizing agents
<b><u>Toxic and Hazardous Ingredients</u></b>	None
<b><u>Form</u></b>	Solid
<b><u>Appearance</u></b>	Solid Flakes
<b><u>Specific Gravity (water = 1)</u></b>	Less than 1 at 15°C
<b><u>Boiling Point</u></b>	Not available
<b><u>Melting Point</u></b>	N/A
<b><u>Solubility in Water (by weight %)</u></b>	Not Soluble
<b><u>Volatile (by weight %)</u></b>	0 at 25°C
<b><u>Evaporation Rate</u></b>	Not applicable
<b><u>Vapor Pressure (mm Hg at 20°C)</u></b>	Not applicable
<b><u>Vapor Density (air = 1)</u></b>	Not applicable
<b><u>pH (as is)</u></b>	Not applicable
<b><u>Stability</u></b>	Product is stable under normal conditions
<b><u>Viscosity SUS at 100°F</u></b>	Not applicable

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**SECTION III - FIRE AND EXPLOSION DATA**

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**Special Fire Fighting Procedures**

Self-contained breathing apparatus is recommended for firefighters. Apply water fog or mist gently, heavy application of hot oil could cause foaming. Avoid contact with hot oil.

**Unusual Fire and Explosion Hazards**

None

**Flashpoint**

(Method Used) Closed Cup, greater than 600<sup>o</sup>F

**Flammable Limits %**

Not data available

**Extinguishing Agents**

Drychemical or Waterfog or CO<sub>2</sub> or Foam or Sand/Earth. Closed containers exposed to fire may be cooled with water

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**SECTION IV - HEALTH HAZARD DATA**

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**Chronic Effects of Overexposure**

This material does not contain any chemical listed as a carcinogen or potential carcinogen by OSHA

**Acute Toxicological Properties**

No data available

**Emergency First Aid Procedures**

**Eyes**

Flush with large amounts of water for at least 15 minutes. If irritation persists, call a physician

**Skin Contact**

Not applicable

**Inhalation**

Not applicable

**If Swallowed**

Not applicable

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**SECTION V - SPECIAL PROTECTION INFORMATION**

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**Respiratory Protection (Specify Type)**

None

**Protective Gloves**

Usually not needed

**Eye Protection**

Usually not needed

**Other Protective Equipment**

None

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**SECTION VI - HANDLING OF SPILLS OR LEAKS**

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**Procedures for Clean-Up**

Shut off leak and dike up large spills. Absorb with an inert material such as earth, sand or vermiculite. Sweep up and dispose of in accordance with Federal, State, and Local regulations

**Waste Disposal**

Dispose of in accordance with all applicable Federal, State, and Local regulations

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**SECTION VII - SPECIAL PRECAUTIONS**

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**Precautions to be taken in handling and storage**

Keep away from heat and flames  
Do not store near strong oxidizing agents  
65°F to 75°F

**Recommended Storage Temperatures**

**Other Precautions**

Do not keep soiled rags or other absorbent type materials under high temperature and or closed conditions in the presence of oxygen.

**Name** Justin Naramore  
**Title** Quality Control Supervisor  
**Date** August 30, 2012

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