MINERAL OIL

COLUMBUS VEGETABLE OILS

PRODUCT CODE: 900, 901, 902, 904, 905, 907

CAS NO: 8042-47-5

NFPA HAZARD RATING
4 - Extreme
3 - High
2 - Moderate
1 - Slight
0 - Insignificant

Flammability
1

Toxicity

Reactivity

Special

HMIS HAZARD INDEX (Hazardous Materials Identification System)
4 - Severe
3 - Serious
2 - Moderate
1 - Slight
0 - Minimal

HMIS RATINGS
Health
0
Flammability
1
Reactivity
0
Personal Protection

SECTION I - DIVISION AND LOCATION

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

Emergency Telephone Number: 773-265-6500

SECTION II - CHEMICAL AND PHYSICAL PROPERTIES

Chemical Name
PETROLEUM HYDROCARBONS
MINERAL OIL

Formula

Hazardous Decomposition Products
Carbon monoxide and other harmful substances

Incompatibility (Keep Away From)
Strong oxidizing agents

Toxic and Hazardous Ingredients
None

Form
Liquid

Appearance
Watery White

Specific Gravity (water = 1 at 39.2°F)
Approximately 0.86

Boiling Point
Greater than 600°F

Melting Point
Not Applicable

Solubility in Water (by weight %)
Negligible

Volatile (by weight %)
Negligible

Evaporation Rate
Negligible

Vapor Pressure (MM HG at 70°F)
Less Than 0.1

Vapor Density (air = 1 at 60° - 90°F)
Greater Than 10

pH
Approximately 7

Stability
Stable

Viscosity SUS at 100°F
Varies with product
COLUMBUS VEGETABLE OILS MATERIAL SAFETY DATA SHEET

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SECTION III - FIRE AND EXPLOSION DATA

Fire and Explosion Hazards
Slightly combustible, OSHA/NFPA Class-IIIB combustible liquid. When heated above its flash point, this material release flammable vapors which can burn in the open or be explosive in confined spaces if exposed to an ignition source. Mists or sprays may be flammable at temperatures below the normal flash point. Keep away from extreme heat and open flame.

Special Fire Fighting Procedures
For fires involving this material, do not enter any enclosed of confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of combustion products and oxygen deficiencies. If firefighters cannot work upwind to the fire, respiratory protective equipment must be worn. Cool tanks and containers exposed to fire with water. Burning liquid will float on water. Notify appropriate authorities if liquid enters sewer/waterways.

Unusual Fire and Explosion Hazards
None expected with the exception in above conditions

Flash point (Method Used)
(D - 92) approximately 410°F

Flammable Limits %
Not data available

Extinguishing Agents
Dry chemical or CO₂ of Foam or Sand/Earth. Closed containers exposed to fire may be cooled with water

SECTION IV - HEALTH HAZARD DATA

Summary of Acute Hazards
Not expected to present significant health hazard upon short-term exposure.

Permissible Concentrations (air)
If used in applications where a mist may be generated, observe a TWA/PEL of 5 mg/m³ for oil mist (OSHA and ACGIH)

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
No irritation is expected from short-term exposure

Skin Contact
No significant adverse health effects are expected and no irritation to occur upon short-term exposure.

Inhalation
No significant adverse health effects are expected to occur upon short-term exposure.

If Swallowed
Ingestion will produce a cathartic (Laxative) effect and may be irritating to the digestive tract. Aspiration into lungs will cause lipid pneumonia.
SECTION V - SPECIAL PROTECTION INFORMATION

**Ventilation Type Required**
(Local, Mechanical, Special)
Use adequate ventilation to keep oil mists of this material below applicable standards

**Respiratory Protection (Specify Type)**
None is needed under anticipated use conditions with adequate ventilation. If exposure exceeds the occupational exposure limits. Follow OSHA standards or equivalent and wear proper NIOSH/MSHA-approved respiratory equipment.

**Protective Gloves**
Use as needed.

**Eye Protection**
Safety glasses should be adequate protection under most conditions of use. Wear goggles and/or face shield if splashing or spraying is likely. Especially if heated above 125°F. Have suitable eye wash water available.

**Other Hygienic and Work Practices**
Wash hands with plenty of soap and water before eating, drinking, smoking, or use of Toilet facilities. Do not use gasoline, solvents kerosene, or harsh abrasive skin cleaners for washing exposed skin areas. Take a shower after work if general contact occurs. Remove oil-soaked clothing and launder before reuse.

SECTION VI - OCCUPATIONAL EXPOSURE LIMITS

<table>
<thead>
<tr>
<th>SUBSTANCE</th>
<th>SOURCE</th>
<th>DATE</th>
<th>TYPE</th>
<th>VALUE/UNITS</th>
<th>TIME</th>
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</thead>
<tbody>
<tr>
<td>OIL MIST, MINERAL</td>
<td>OSHA</td>
<td>1989</td>
<td>PEL</td>
<td>5 Mg/M³</td>
<td>8 hours</td>
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<tr>
<td></td>
<td>ACGIH</td>
<td>1991</td>
<td>TLV</td>
<td>5 Mg/M³</td>
<td>8 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STEL</td>
<td>10 Mg/M³</td>
<td>15 hours</td>
</tr>
</tbody>
</table>

SECTION VII - EMERGENCY AND FIRST AID

**Inhalation**
Vaporization is not expected at ambient temperatures, but should inhalation occurs, immediately remove personnel from contaminated area to fresh air. Obtain medical attention if there are signs of breathing difficulties.

**Eye Contact**
Flush eyes with clean, low-pressure water for at least 15 minutes. Occasionally lifting the eyelids. If pain or redness persists after flushing, obtain medical attention.
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Skin Contact

Remove by wiping off; then wash skin thoroughly with plenty of soap and water. Remove contaminated clothing and thoroughly clean before reuse. Discard contaminated leather gloves and shoes.

Ingestion

No significant signs or symptoms indicative of any adverse health effects are expected; but do not induce vomiting, since aspiration into the lungs may cause lipoid pneumonia.

SECTION VIII - SPILL AND DISPOSAL

Precautions if Material is Spilled or Released

Contain spill and prevent from entering sewers and other water bodies, if possible. Safely stop flow of spill. Spill may create slipping hazards. Evacuate all non-essential personnel from the spill area. In urban areas, cleanup as soon as possible; in natural environments, cleanup on advice from ecologists. This material will float on water. Absorbent materials and pads can be used. Comply with all applicable laws. Spills may need to be reported to the national response center (800/424-8802). This material has low probability of toxic impacts. Only limited and localized damage would be expected.

Waste Disposal

Maximize product recovery for reuse or recycling. Conditions of use may cause this material to become a “Hazardous Waste”, as defined by state or federal laws. Use approved treatment, transporters, and disposal sites in compliance with all applicable laws. If spill is introduced into a wastewater treatment system, chemical and biological oxygen demand will likely increase. Spill material is biodegradable if gradually exposed to microorganisms. Potential treatment and disposal methods include land farming, incineration, and land disposal, if permitted.

Other Precautions

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

Handling, Storage and Decontamination Procedures

Keep containers closed. Store and handle so as to prevent contamination from any source, especially when this material will be used in applications covered by Food and Drug Administration Regulations 21 CFR 172.878© and 178.3620 (A). Recommended Storage temperature 65° F to 85° F.

General Comments

This material is a “Petroleum Distillate”, as defined by 16 CFR 1500.14 (B) and 1500.83 (A) (13), which requires special labeling pursuant to the Federal Hazardous Substances act and related statutes and regulations. It is distributed in a manner intended, or packaged in a form suitable, for use in the general household and can be used by children.

This product is manufactured to meet U.S. Pharmacopoeia/National Formulary requirements for “Mineral Oil” and Food & Drug Administration requirements for “White Mineral Oil” as defined by 21 CFR 172.878 (A). It is suitable for use in or on food in accordance with 21 CFR 172.878 ©. This product is listed with the FDA in compliance with the drug listing act of 1972. It contains about 10 ppm. DL-Alpha-Tocopherol (Vitamin E) as a stabilizer. Some of the information presented and conclusions drawn herein are from sources other than direct test data on the mixture itself.

Name: Rick Cummisford
Title: Quality Director
Date: May 26, 2009

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