

MATERIAL SAFETY DATA SHEET

SECTION 1. IDENTIFICATION OF PRODUCT

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| 1.1 CHEMICAL NAME OR DESCRIPTION <p style="text-align: center;">Vegetable Oil</p> | 1.2 EMERGENCY TELEPHONE NUMBER <p style="text-align: center;">(513)482-8000</p> |
| 1.3 SYNONYMS AND TRADE NAMES Crisco Oil: Vegetable/Canola/Corn/Natural Blend/Olive Oil (Pure/Light/Extra Virgin)/Peanut | 1.6 CHEMICAL FAMILY <p style="text-align: center;">Triglyceride</p> |
| 1.4 MANUFACTURERS NAME <p style="text-align: center;">J. M. Smucker</p> | 1.7 MOLECULAR WEIGHT <p style="text-align: center;">Not Pertinent</p> |
| 1.5 ADDRESS (INCLUDE STREET NUMBER AND ZIP CODE) <p style="text-align: center;">5204 Spring Grove, Cincinnati, Ohio 45217</p> | |
| 1.8 DOT HAZARD CLASSIFICATION (REGULATED ARTICLES) <p style="text-align: center;">Not Pertinent</p> | 1.9 DOT SHIPPING NAME (REGULATED ARTICLES) <p style="text-align: center;">Not Regulated</p> |

SECTION 2. PHYSICAL DATA

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| 2.1 APPEARANCE AND ODOR <p style="text-align: center;">Liquid, clear pale yellow</p> | |
| 2.2 SPECIFIC GRAVITY (WATER #1) (LIQUIDS ONLY) 25/25°C ca 0.92 | 2.3 SOLIDS CONTENT (PERCENT BY WEIGHT) (SOLIDS, DISPERSIONS OR PASTES ONLY) <p style="text-align: right;">NA</p> |
| 2.4 SOLUBILITY IN WATER (PERCENT BY WEIGHT) (SPECIFY TEMPERATURE IN DEGREES F) <p style="text-align: center;">Insoluble</p> | 2.5 BOILING POINT (DEGREES FAHRENHEIT) (NON-AQUEOUS LIQUIDS ONLY) <p style="text-align: center;">Not Pertinent (very high)</p> |
| 2.6 VAPOR PRESSURE (MM OF HG AT °F) (NON AQUEOUS LIQUIDS ONLY) <p style="text-align: center;">Not Pertinent</p> | 2.7 VAPOR DENSITY (AIR #1) (NON-AQUEOUS LIQUIDS ONLY) <p style="text-align: center;">Not Pertinent</p> |
| 2.8 EVAPORATION RATE (BUTYL ACETATE = 100) (NON AQUEOUS LIQUIDS ONLY) <p style="text-align: center;">Not Pertinent</p> | 2.9 pH (AQUEOUS LIQUIDS ONLY) <p style="text-align: right;">NA</p> |

SECTION 3. FIRE AND EXPLOSION HAZARD DATA

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| 3.1 FLASH POINT (SPECIFY METHOD) (DEGREES FAHRENHEIT) <p style="text-align: center;">540°F CC</p> | 3.2 FLAMMABLE LIMIT (VAPOR IN AIR) LOWER UPPER (PERCENT BY VOLUME) <p style="text-align: center;">Not Pertinent</p> |
| 3.3 FIRE EXTINGUISHING MEDIA <p style="text-align: center;">Foam, dry chemical, carbon dioxide</p> | |
| 3.4 SPECIAL FIRE FIGHTING PROCEDURES <p style="text-align: center;">Water or foam may cause frothing, water may be ineffective</p> | |
| 3.5 UNUSUAL FIRE AND EXPLOSION HAZARDS <p style="text-align: center;">Firefighters should wear self contained breathing apparatus</p> | |

SECTION 4. REACTIVITY DATA

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| 4.1 STABILITY (INCLUDING HAZARDOUS POLYMERIZATION) | UNSTABLE ----- STABLE | ----- X | CONDITIONS TO AVOID: Slow heat generation can occur with oil rags, filter aids, etc. If heat is contained, spontaneous combustion can occur. |
| 4.2 INCOMPATIBILITY (MATERIALS TO AVOID) <p style="text-align: center;">This material is incompatible with oxidizing agents.</p> | | | |
| 4.3 HAZARDOUS DECOMPOSITION PRODUCTS <p style="text-align: center;">Thermal oxidative degradation can yield carbon monoxide and acrolein.</p> | | | |

SECTION 5. SPILL OR LEAK PROCEDURES

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| 5.1 STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Absorb with vermiculite or other absorbent material, mechanical containment. Remove material, clean area with soap and water. |
| 5.2 WASTE DISPOSAL METHOD Treat as combustible material. Liquid waste can be incinerated or disposed of via a licensed waste disposal company. Solid absorbed material can be burned or deposited in an approved sanitary landfill. |

REFERENCES:

Response Methods Handbook, Cg 446-4;
 Hazardous Chemicals Data Book, Environmental Health Review No. 4

| SECTION 6. HEALTH HAZARD DATA | | |
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| 6.1 EFFECTS OF CONTACT WITH EYES May cause mild irritation. | | |
| 6.2 EFFECTS OF CONTACT WITH SKIN (LOCAL AND SYSTEMIC, ACUTE AND CHRONIC) Oil is essentially non-toxic. | | |
| 6.3 EFFECTS OF INHALATION (LOCAL AND SYSTEMIC, ACUTE AND CHRONIC) Aspiration or inhalation into lungs of mist could cause chemical pneumonitis. | | |
| 6.4 EFFECTS OF INGESTION Essentially non-toxic (material is a food). | | |
| 6.5 EMERGENCY AND FIRST AID PROCEDURES INGESTION: DO NOT induce vomiting. EYES: Wash with water for 15 minutes. | | |
| 6.6 SPECIAL MEDICAL EXAMINATIONS NONE | | |
| SECTION 7. SPECIAL PROTECTION INFORMATION | | |
| 7.1 RESPIRATORY PROTECTION (SPECIFY TYPE) Provide exhaust ventilation when heated or exposed to mist. | | |
| 7.2 GLOVES (SPECIFY MATERIAL OF CONSTRUCTION) Neoprene rubber | 7.3 EYE PROTECTION (SPECIFY TYPE) Safety goggles or glasses with shield. | |
| 7.4 OTHER PROTECTIVE EQUIPMENT (CAP, APRON, COVERALLS, BOOTS, EYEWASH FOUNTAIN, SAFETY SHOWER, ETC.) Eyewash and washing facilities should be accessible. | | |
| 7.5 PERSONAL HYGIENE Use good personal hygiene. | | |
| 7.6 ENGINEERING CONTROL OF HEALTH HAZARDS (VENTILATION, ETC.) Exhaust ventilation if mist is present. | | |
| SECTION 8. SUBSTANCES FOR WHICH STANDARDS HAVE BEEN SET | | |
| SUBSTANCE | PERCENT | THRESHOLD LIMIT VALUE/OSHA STANDARD (SPECIFY UNITS SUCH AS PPM, MG PER CUBIC METER, MPPCF, ETC.) |
| 8.1 USE THIS SPACE WHEN THE PRODUCT IS ESSENTIALLY A SINGLE CHEMICAL COMPOUND OR ELEMENT AS IDENTIFIED IN SECTION 1.1 | Ca 100% | 8 hr. TWA 10 mg/m ³ * |
| 8.2 COMPONENTS (10 PERCENT OR MORE OF MIXTURES) | NA NA | *ACGIH (1984-85) TLV for Nuisance particularly vegetable oil mist. |
| EVALUATION OF EXPOSURES | 8.3 AIR ANALYSIS (INSTRUMENTATION) Not Required | |
| | 8.4 AIR ANALYSIS (CHEMICAL METHOD) Not Required | |
| | 8.5 ANALYSIS OF BIOLOGICAL MATERIAL Not Required | |
| SECTION 9. SPECIAL PRECAUTIONS | | |
| 9.1 PRECAUTIONARY LABELING | | |
| | Health Hazard | 0 |
| | Flammability | 1 |
| | Reactivity | 0 |
| 9.2 OTHER HANDLING AND STORAGE CONDITIONS OSHA Class IIIB Combustible Liquid | | |