MATERIAL SAFETY DATA SHEET

SECTION 1. IDENTIFICATION OF PRODUCT

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

SECTION 2. PHYSICAL DATA

2.1 APPEARANCE AND ODOR Liquid, clear pale yellow	
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) NA
2.4 SOLUBILITY IN WATER (PERCENT BY WEIGHT) (SPECIFY TEMPERATURE IN DEGREES F) Insoluble	2.5 BOILING POINT (DEGREES FAHRENHEIT) (NON-AQUEOUS LIQUIDS ONLY) Not Pertinent (very high)
2.6 VAPOR PRESSURE (MM OF HG AT °F) (NON AQUEOUS LIQUIDS ONLY) Not Pertinent	2.7 VAPOR DENSITY (AIR #1) (NON-AQUEOUS LIQUIDS ONLY) Not Pertinent
2.8 EVAPORATION RATE (BUTYL ACETATE = 100) (NON AQUEOUS LIQUIDS ONLY) Not Pertinent	2.9 pH (AQUEOUS LIQUIDS ONLY) NA

SECTION 3. FIRE AND EXPLOSION HAZARD DATA

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

SECTION 4. REACTIVITY DATA

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) This material is incompatible with oxidizing agents.			
4.3 HAZARDOUS DECOMPOSITION PRODUCTS Thermal oxidative degradation can yield carbon monoxide and acrolein.			

SECTION 5. SPILL OR LEAK PROCEDURES

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

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)	7.3 EYE PROTECTION (SPECIFY TYPE)
Neoprene rubber	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