Safety Data Sheet
Palm Cooking Oil

Transport Symbol	WHMIS	NFPA	Personal Protective Equipment
Not controlled	Not controlled		

Original Preparation Date: 12-May-2015 **Revision Date: 12-May-2015** **Revision Number: 1.0**

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Name:
Palm Oil
Use of the Substance / Preparation: Food Ingredient, Cosmetic Use, Industrial use

2. HAZARDS IDENTIFICATION

Emergency Overview

Spontaneous combustion (fire) may result from oil soaked materials such as rags, steel wool, paper, and clothing. Place soaked materials in a sealed, metal container to prevent this. The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance	Physical State	Odor
White to Yellow	Solid	Bland

This product is NOT classified as hazardous according to 29 CFR 1910, amended to conform to the United Nations' Globally Harmonized System of Classification and Labelling of Chemicals (OSHA / GHS); SOR/88-66, the Canadian Controlled Products Regulations (CPR); and/or NOM-002-SCT-2003 (Mexico). However, vegetable oil (in mist form) is known to be listed as an OSHA 29 CFR 1910.1000 Air Contaminant. Occupational exposure limits are subsequently provided in section 8 of this SDS.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Family Oil

Non-hazardous Components

Chemical Name	CAS-No	Weight %	North American Hazard Indicator
Palm Oil	8002-75-3	99-100	None Known

4. FIRST AID MEASURES

Description of first aid measures
General Advice No hazards which require special first aid measures. When symptoms persist or in all cases of doubt seek medical advice.
Eye Contact Rinse thoroughly with plenty of water, also under the eyelids.

Skin Contact Wash off with warm water and soap.
Inhalation Move to fresh air.
Ingestion No special measures required. Health injuries are not known or expected under normal use.

Most important symptoms and affects, both acute and delayed
Eyes Not expected to pose health issues for the eye.
Skin Prolonged or excessive contact with skin may result in mild irritation, however, significant health injuries are not expected under normal use.
Inhalation Health injuries are not known or expected under normal use. When in the form of an airborne mist, refer to section 8 of this sheet for exposure limits pertaining to "vegetable oil mist". Excessive inhalation of mist may result in respiratory irritation.
Ingestion Health injuries are not known or expected under normal use. Overexposure may cause: Gastrointestinal disturbance.

Indication of any immediate medical attention and special treatment needed
Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties
Material may pose fire hazard because it is dispersed (or spread) by water.

Extinguishing media
Suitable Extinguishing Media Dry chemical. Dry chemical powder. Carbon dioxide (CO_2). Foam. Sand. Fog. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture

Hazardous Combustion Products	Thermal decomposition can lead to release of irritating gases and vapors, Acrolein, Carbon monoxide (CO), Carbon dioxide (CO_2), Smoke, Fumes.
Specific Hazards Arising from the Chemical	Risk of ignition. Rags and other materials containing this product may heat and spontaneously ignite, if exposed to air. Store wiping rags and similar materials in metal cans with tightly fitting lids. Cool closed containers exposed to fire with water spray.
Sensitivity to mechanical impact	No information available.
Sensitivity to static discharge	No information available.

Advice for fire-fighters
Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health 0
Flammability 1
Stability and Reactivity 0
Physical hazard None known

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Avoid high pressure washing or generation of aerosols. Material can create slippery conditions.
Environmental Precautions
Prevent further leakage or spillage if safe to do so. Do not allow product to reach soil, sewage system or any water course.
Methods for Clean-up
Dam up. Soak up with inert absorbent material. Use dry spill kit material or sand, collect in appropriate containers. For disposal information see section 13. Clean contaminated surface thoroughly.
Other Information
Oil soaked materials may spontaneously combust

7. HANDLING AND STORAGE

Handling
Ensure adequate ventilation. Do not use pressure to empty drums. Keep away from open flames, hot surfaces and sources of ignition.
Storage
Keep in a cool sheltered place. To maintain product quality, do not store in heat or direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits
As an airborne mist containing vegetable oil, exposure limits pertaining to "vegetable oil mist" have been provided below

Chemical Name	ACGIH TLV	OSHA PEL	MEXICO	NIOSH
vegetable oil mist	TVL: 10 mg/m(3)	TWA: 5 mg/m³ mist, respirable fraction TWA: 15 mg/m³ mist, total	TWA: 10 mg/m³ except irritant oils	TWA: 10 mg/m³ total mist TWA: 5 mg/m³ respirable mist

Engineering Measures Ensure adequate ventilation, especially in confined areas. Apply technical measures to comply with the occupational exposure limits.
General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

Personal Protective Equipment
Eye/face Protection. If exposed to airborne mist, or if splashing is possible, appropriate safety glasses with side-shields or safety goggles are recommended.
Skin and Body Protection Oil resistant gloves are recommended. Appropriate body protection should be selected based on activity and possible exposure. Also take into consideration the specific local conditions under which the product is used.
Respiratory Protection In case of mist, spray or aerosol exposure wear suitable personal respiratory protection.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White to Yellow
Physical State	Solid
Odor	Bland
Odor Threshold	Not applicable
pH	Not applicable
Flash Point	Greater than 260 °C
Autoignition Temperature	Not auto-flammable
Boiling point	Not applicable
Melting/Freezing Point	Not applicable
Decomposition temperature	No information available
Oxidizing Properties	Not expected to be oxidizing
Water Solubility	Insoluble
Solubility(ies)	Soluble in many organic solvents
Evaporation Rate	No information available
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity / Relative Density	Approx. 0.9 (H_2O=1)
Partition Coefficient (n-octanol/water)	No information available

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.
Possibility of Hazardous Reactions None under normal processing.
Conditions to Avoid Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Materials No materials to be especially mentioned.
Hazardous Decomposition Products Thermal decomposition leads to formation of acrolein, Carbon monoxide (CO), Carbon dioxide (CO_2), Smoke, Fumes.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity	Based on available data, no evidence of acute toxicity.
Skin corrosion/irritation	Based on available data, not, or only slightly irritating.
Serious eye damage/eye irritation	Based on available data, no evidence of serious eye damage / irritation.
Respiratory or skin sensitisation	Based on available data, not expected to be a skin or respiratory sensitiser.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, no evidence of carcinogenicity.
Reproductive toxicity	Based on available data, no evidence of reproductive toxicity
STOT - single exposure	Based on available data, the classification criteria are not met.
STOT - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, no known aspiration hazard.

Potential health effects

Eyes Not expected to pose health issues for the eye.

Skin Prolonged or excessive contact with skin may result in mild irritation, however, significant health injuries are not expected under normal use.

Inhalation Health injuries are not known or expected under normal use. When in the form of an airborne mist, refer to section 8 of this sheet for exposure limits pertaining to "vegetable oil mist". Excessive inhalation of mist may result in respiratory irritation.

Ingestion Health injuries are not known or expected under normal use. Overexposure may cause: Gastrointestinal disturbance.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Not classified for aquatic toxicity.

Persistence/Degradability Readily biodegradable.
Mobility The product is insoluble and floats on water.

13. DISPOSAL CONSIDERATIONS

Whenever possible, as rules and regulations allow, please recycle or manage materials to minimize waste.

Waste Disposal Methods Dispose of in compliance with the laws and regulations pertaining to this product in your jurisdiction. Oil soaked materials may spontaneously combust and should be properly managed to avoid ignition and heat sources or oxygen rich environments. Collect and store soaked materials in closed, metal containers to help prevent combustion.

Contaminated Packaging Empty containers should be decontaminated and taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

Domestic transport regulations (USA)

DOT Not regulated

Domestic transport regulations (Canada)

TDG Not regulated

Domestic transport regulations (Mexico)

MEX Not regulated

International transport regulations

ICAO Not regulated
IATA Not regulated
IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

The components of this product are reported in the following inventories:

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	AICS	ENCS ISHL	CHINA	PICCS	KECL	NZIoC
Palm Oil	Yes	Yes	No	Yes	No	Yes	No	Yes	Yes	Yes	Yes

USA

Federal Regulations

Ozone Depleting Substances:
No Class I or Class II material is known to be used in the manufacture of, or contained in, this product.
SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 372.
CERCLA/SARA 103-302
Sections 103-302 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 103-302.

SARA 311/312 Hazardous Categorization

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 63)
This product is not known to contain any HAPS.

State Regulations

California Proposition 65
Proposition 65 chemicals are not expected to be found in this product above those naturally present in their agricultural source. Proposition 65 exempts naturally occurring listed chemicals from an obligation to label.
State Right-to-Know
Component Information

Chemical Name	Weight %	Massachusetts	Minnesota	New Jersey	Pennsylvania
Palm Oil	99-100	No	No	No	Yes

Canada

WHMIS Product Classification
Not a WHMIS controlled product.
WHMIS Ingredient Disclosure List IDL
No known component is listed on the WHMIS ingredients disclosure list.

(NPRI) Canadian National Pollutant Release Inventory
No known component is listed on NPRI.
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

Mexico

Mexico - Grade Slight risk, Grade 1

16. OTHER INFORMATION

Original Preparation Date: 12-May-2015

Revision Date: 12-May-2015
Revision Number: 1.0
Reason for revision: New SDS format. This version replaces all previous versions.
Abbreviations and acronyms
ACGIH TLV - American Conference of Governmental Industrial Hygienists Threshold Limit Values
AICS - Australian Inventory of Chemical Substances (Australia)
CAS - Chemical Abstract Service
CHINA - Chinese Inventory of Existing Chemical Substances (China)
DOT - U.S. Department of Transportation
DSL - Domestic Substance List (Canada)
EINECS - European Inventory of Existing Commercial Chemical Substances (EU)
ELINCS - European List of Notified Chemical Substances (EU)
ENCS - Existing and New Chemical Substances (Japan) / ISHL - Industrial Health and Safety Law (Japan)
GHS - Globally Harmonized System of Classification and Labelling of Chemicals
IATA - International Air Transport Association Dangerous Goods Regulations
ICL - In Commerce List (Canada)
IMDG - International Maritime Dangerous Goods Code
IMO - International Maritime Organization
KECL - Korean Existing and Evaluated Chemical Substances (Korea)
LC50 - Lethal concentration that produces fatalities in 50% of a given test population
LD50 - Median lethal dose of a given test population
MEX - NOM-002-SCT/2003 List of Hazardous Substances and Materials Most Commonly Transported
MEXICO - Mexico Occupational Exposure Limits
NDSL - Non Domestic Substances List (Canada)
NFPA - National Fire Protection Association
NIOSH - National Institute of Occupational Safety and Health
NZIoC - New Zealand Inventory of Chemicals (New Zealand)
OSHA - Occupational Safety & Health Administration
OSHA PEL - Occupational Safety and Health Administration Permissible Exposure Limits
PICCS - Inventory of Chemicals and Chemical Substances (Philippines)
STOT - Specific Target Organ Toxicity
TDG - Transportation of Dangerous Goods (Transport Canada)
TSCA - Toxic Substances Control Act, Section 8(b) Inventory (USA)
TWA - Time Weighted Average: Average concentration that should not be exceeded during a work day (usually 8-hours)
WHMIS - Workplace Hazardous Materials Information System

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.