

## MATERIAL SAFETY DATA SHEET (MSDS)

### 1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

**Material Name:** Guava Virgin Oil

**Chemical Description:** Guava Oil, *Psidium guajava*.

**Product Code:** 0111CNOIL

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

INCI name <sup>1</sup> (CTFA)	CAS no.	EINECS no.	Concentration <sup>2</sup>	EU Symbol	EU R-Phrase
Psidium guajava seed oil	91770 – 12 – 6	294 – 795 – 3	A	No health risk	No health risk
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<sup>1</sup> CTFA dictionary

<sup>2</sup> FDA – Code (A = >50 %, B = 25 -50%, C = 10 – 25%, D = 5 -10%, E = 1 -5 %, F = 0,1 -1, G = <0,1%)

### 3. HAZARD IDENTIFICATION

This product is a pure vegetable butter which is not considered to present any hazard during normal use. Non Dangerous, Non Hazardous product, usually accepted as a safe commodity (GRAS) in accordance to the food, drugs and cosmetics legislation.

Risks Classification	NFPA 04	HMIS
H = Health	0	0
F = Flammability	0	0
R = Reactivity	0	0
S/R = Special recommendations	NW	NW

CODES RISKS	4 -EXTREME	3 – HIGH	2 - MODERATE	1 – LIGHT	0 – NO RISKS	N/W – USE NO WATER
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### 4. FIRST AID

Inhalation	At ambient/normal handling temperature (0 – 38 deg. C), no adverse effects due to inhalation of vapor are expected. But excessive exposure to the oil vapor may affect the breathing system. If inhalation occurred, expose the individual to fresh air.
Skin contact	No adverse effects due to skin contact expected. Wash with water and soap. Sensitive individuals may present dermatology alterations after long exposition to the oil.
Eye contact	Rinse with water. In case of irritation seek medical advice.
Ingestion	No adverse effects due to ingestion are expected.

### 5. FIRE – FIGHTING MEASURES

Classification	Combustible Liquid Class III - B
Ignition point	Above 228 graus Celcius – Method used Cleveland Cup
Extinguishing media	CO2 chemical powder, sand, foam.

<b>Extinguishing media not applicable</b>	Water.  Combustible material, low hazard. The product can form flammable mixtures or can burn only on heating above the flash point. However, minor contamination by hydrocarbons of higher volatility may increase the hazard. Leakage or conditions resulting in impregnation of this oil with some porous materials such as rags, paper, insulation or clay may cause spontaneous combustion. Special fire-fighting procedures: Water fog or spray, to cool fire-exposed surfaces (e.g. containers) and to protect personnel, should only be used by personnel trained in firefighting. Do avoid the use of water directly over the flames; it could disperse the oil and thus the fire. Cut off "fuel", depending on circumstances, either allows the fire to burn out under controlled conditions or use foam or dry chemical powder to extinguish the fire. Respiratory and eye protection required for firefighting personnel exposed to fumes or smoke.
<b>Fire and explosion hazards</b>	
<b>Ignition risks and unusual explosions</b>	Textile sheets and paper sheets imbibed with the product may spontaneously heat and burn.
<b>Hazardous combustion products</b>	Smoke, carbon monoxide and carbon dioxide.
<b>Protection of Firefighters</b>	Use adequate eye and skin protection; water suitable self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	None Known
<b>Environmental Precautions</b>	None
<b>Methods of Cleaning Up</b>	Materials are biodegradable and does not require special cleanup.

## 7. SAFETY OPERATION GUIDELINES

Masks, glasses and ventilation are desirable but not mandatory. Gloves are required.

## 8. HANDLING AND STORAGE

<b>Handling</b>	None restrictions
<b>Storage</b>	Store at room temperature
<b>Suitable Packaging Materials</b>	Opaque, tightly sealed container.

## 9. EXPOSURE CONTROL / PERSONAL PROTECTION

<b>Engineering measures</b>	Ensure ventilation or local exhaust if formation of vapor occurs
<b>Hygiene measures</b>	Good industrial hygiene should be followed
<b>Occupational Exposure Limits</b>	No occupational exposure limits have been established.
<b>Personal Protection Equipment</b>	Normal protection should be observed as for handling all chemicals

## 10. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid viscous
<b>Aspect at 25 °C</b>	Liquid
<b>Color</b>	Red
<b>Odor</b>	Typical vegetable oil odor, characteristic.
<b>pH</b>	No data
<b>Boiling Point (°C)</b>	No data
<b>Density at 25 °C (g/cm<sup>3</sup>)</b>	No data
<b>Refraction value at 40°C (Zeiss)</b>	No data
<b>Iodine value (gI<sub>2</sub>/100g)</b>	125 – 140
<b>Saponification value (mgKOH/g)</b>	185 – 200

Peroxide value (meq/1000g)	≤10
Acid value (mgKOH/g)	≤20
Solubility in water	Insoluble
Fatty acid distribution	No data
Others (%)	No data
Partition coefficient	No data

## 11. STABILITY AND REACTIVIY

Stability Conditions to avoid	Stable under normal conditions
Incompatible materials	Avoid contact with strong oxidants such as liquid chlorine and concentrated oxygen.
Hazardous decomposition products	Smoke and carbon monoxide may be formed in the event of incomplete combustion. Product does not decompose at ambient temperature

## 12. TOXICOLOGICAL INFORMATION

Effects of over exposure inhalation : skin contact	No hazard normal industrial use.
Primary cutaneous irritation	Not considered irritating.
Repeated cutaneous irritation	Not considered irritating
Maximized cutaneous sensibilization	Not considered sensitizer
Repeated cutaneous photoirritation	Not considered photo irritating
Maximized cutaneous photosensibilization	Not considered photosensitizer
Phototoxicity	Not considered phototoxic
Eye contact	-
Ocular irritation 7 days	-
Toxicity data	-
Oral, rat, LD 50	-
Dermal, rat, LD 50	-

## 13. ECOLOGICAL INFORMATION

Comment	None
Ecotoxicity	None

This assessment is based on general information for vegetable oils. The oil will largely on the soil surface, and in water, will remain largely on the water surface. No harmful effects to terrestrial or aquatic habitats would be expected. This product is expected to be biodegradable.

## 14. DISPOSAL CONSIDERATIONS

Methods of Disposal	Dispose in a accordance with local, state and federal regulations
EU Code of Disposal	Dispose in accordance with local regulations.

## 15. TRANSPORT INFORMATION

Usual shipping containers	Road tankers, liquid containers, drums.
Transport temperature (°C)	10 – 25 °C
Transport sea/air	Not regulated
Transport land	Not regulated

**16. REGULATORY INFORMATION**

EC Regulations	N/A
EC Classifications	N/A
Label Name	Guava virgin oil
Risk Phrases	None
None Hazard Symbols	None

**17. OTHER INFORMATION**

Product type/uses	Glycerides of fatty acids The recommendations presented in this Material Safety Data Sheet (MSDS) were compiled from actual test data, when available, comparison with similar products, component information from suppliers and from recognized codes of good practice.
Source of key data	

The information and recommendations contained herein are, to the best of our knowledge and belief, accurate and reliable as of the date issued, but are offered without guarantee or warranty.

They relate to the specific material designated and may process.

Conditions of use the material are under the control of the user, therefore, it is user's responsibility to satisfy himself as to the suitability and completeness of such information for this own particular use.

This data sheet was prepared in accordance with directive 88/379/EEC 2 – directive 91/155/CEE EU labeling : INCI name according amending Decision 96/335/EC of 09 February 2006 establishing an inventory and a common nomenclature of ingredients employed in cosmetic products.