

SAFETY DATA SHEET

Rose Hip Seed Oil (Rosa Aff Rubiginosa)

1.-Product Identification

- Product name : Rose Hip Seed Oil
- CTFA name : Rose Hip Oil, Rosa Mosqueta Oil.
- Chemical family : Fixed vegetable oil
- Origin : Chile

2.-Physical and Chemical Properties

- Physical state : liquid (20°C)
- Colour : bright yellow
- Odour : Characteristic
- Boiling point : >250°C
- Melting point : not applicable
- Solubility : insoluble in water, soluble in organic solvents.
- Specific gravity : 0,922 - 0,966
- Hazardous ingredients : none

3.- Fatty Acids Composition * (+ - 10%)

- Palmitic acid : 3,60%
- Stearic acid : 1,60%
- Oleic acid : 14,70%
- Linoleic acid : 44,60%
- Linolenic acid : 35,50%

* Expressed as methyl esters

4.- First Aid Measures

- Ingestion : not direct hazard. Rose Hip Oil is an edible oil.
- Skin contac : not direct danger
- Eye contac : rinse thoroughly with a lot of water for some minutes.

5.- Exposure Control / Personal control

- Skin and body protection : not necessary
- Hand protection : not necessary
- Eye protection : not necessary
- Respiratory syst. Protection : not necessary

6.- Fire Fighting Measures / Extinguishing Media

- Suitable : dry fire extinguisher / carbon dioxide
- Not suitable : water

7.- Handling and Storage

- Handling : keep away from heat
- Storage : keep in a cool place, avoid the sun light and heat
- Exposure : avoid exposure to the air, oxygen or strong oxidisers.

8.- Toxicological Information

- Chronic toxicity : not applicable
- Oral toxicity : not applicable
- Dermal toxicity : not applicable
- Skin irritation : not an irritant
- Carcinogenicity : not applicable

9.- Ecological Information

- Comment : biodegradable
- Method of disposal : according to national regulations (suitable incineration plant)

10.- Transport Information

- Land / Sea / Air transport : not restricted
- Risk Phrases : none
- Safety Phrases : none

11.- Package

- Steel drums with 55, 100, 190 Kg. net
- Plastic drums with 5, 20 Kg. net.

12.- Use

Cosmetic adjuvant, nutritional supplement, aromateraphy, skin uses.

Notice The information contained in the safety data sheet discription is applicable exclusively to the chemical substance identified herein and for its intended use as a nutritional supplement or cosmetic adjuvant.

Date of issue 15 November 2002 (Dr.QF Orlando Araneda V)

**TECHNICAL DATA SHEET OF THE REFINED ROSE HIP SEED OIL
CHILE**

Ref. 225 Y

CTFA Name : Rose Hip Oil / Aceite de Rosa Mosqueta
Appearance : Bright Yellow Liquid / Color amarillo claro

| Test | Unit | Minimum | Maximum value | Method |
|------------------|-----------------------|---------|---------------|------------|
| Refractive Index | 20°C | 1,4700 | 1,4810 | NCH, OACS |
| Specific Gravity | 20°C | 0,9220 | 0,9600 | OACS |
| Free Acidity | %Oleic Acid | 0,05 | 1,10 | OACS |
| Saponification | mg. KOH | 170 | 193 | OACS |
| Peroxide Index | O ₂ /Kg. | 0,10 | 2,90 | NCH, OACS |
| Yodine Index | I ₂ /100g. | 170 | 185 | Met. Wijs. |

Fatty Acids (Gas chromatography) + - 10% % Methyl Esther

| | |
|----------------|----------|
| Palmitic acid | : 3,60% |
| Stearic acid | : 1,60% |
| Oleic acid | : 14,70% |
| Linoleic acid | : 44,60% |
| Linolenic acid | : 35,50% |

Antyoxidants : D-L Alpha Tocopherol 500mg./ Kg. or T.B.H.Q. 100mg/Kg.

References:

OACS, Oficial and tentative method of American Oil Chemist Society.
NCH, Chilean Method.
"Materias grasas de consumo habitual y potencial en Chile". L. Masson,
A. Mella, Facultad de C. Químicas y Farmacéuticas Univ. de Chile. 1985.

Analist : Dr. Q.F. Orlando Araneda V.

Position : Product Manager Disco, Distribuidora de Cosméticos Ltda.

**TECHNICAL DATA SHEET OF THE REFINED ROSE HIP SEED OIL
CHILE**

Ref. 226 O
 CTFA Name : Rose Hip Oil / Aceite de Rosa Mosqueta
 Appearance : Bright Orange Liquid / Color anaranjado claro

| Test | Unit | Minimum | Maximum value | Method |
|------------------|-------------|---------|---------------|------------|
| Refractive Index | 20°C | 1,4700 | 1,4810 | NCH, OACS |
| Specific Gravity | 20°C | 0,9220 | 0,9600 | OACS |
| Free Acidity | %Oleic Acid | 0,05 | 1,10 | OACS |
| Saponification | mg. KOH | 170 | 193 | OACS |
| Peroxide Index | O2 /Kg. | 0,10 | 3,90 | NCH, OACS |
| Yodine Index | I2 /100g. | 170 | 185 | Met. Wijs. |

Fatty Acids (Gas chromatography) + - 10% % Methyl Esther

| | |
|----------------|----------|
| Palmitic acid | : 3,60% |
| Stearic acid | : 1,60% |
| Oleic acid | : 14,70% |
| Linoleic acid | : 44,60% |
| Linolenic acid | : 35,50% |

Antyoxidants : D-L Alpha Tocopherol 500mg./ Kg. or T.B.H.Q. 100mg/Kg.
 Coloring : Beta carotene

References:

OACS, Oficial and tentative method of American Oil Chemist Society.
 NCH, Chilean Method.
 "Materias grasas de consumo habitual y potencial en Chile". L. Masson,
 A. Mella, Facultad de C. Químicas y Farmacéuticas Univ. de Chile. 1985.

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