



PRODUCT SPECIFICATION

Product Name	Thistle Oil				
Date	21/06/2016	Product Code	WHC075	Rev	6
Reason for Revision	Updated to comply to Suppliers Specification				

Description	Carthamus Tinctorius Seed Oil is the oily liquid obtained from the seeds of Safflower, Carthamus tinctorius L., Compositae.				
Appearance	Liquid				
Odour	Characteristic				
Application	Cosmetic raw material				
Function	Masking, Skin conditioning				
INCI Name	Carthamus tinctorius seed oil.				
EINECS Number	-				
CAS Number	8001-23-8	EC Number	232-276-5		

TEST SPECIFICATION

Analytical Test	Method	Specification Range
Acid Value(mg KOH/g)	AOCS Cd3d-63	≤0.5
Peroxide Value (meqO ₂ /kg)	AOCS Cd8-53	≤2.0
Density at 20 °C g/cc	ASTM D1298-85	0.912-0.930
Refractive Index	AOCS Tp1a-64	1.472-1.476
Pour Point °C	ASTM D97-87	≤-15
Cloud Point °C	AOCS Cc 6-25	≤-10
Colour Yellow/Red	Lovibond cell 5"¼	≤50.0 Y/5. 0R
Iodine Value grI ₂ /100	AOCS Tg2a-64	120.0-135.0
Saponification Value mgKOH/g	AOCS Cd3-25	180.0-195.0
Unsaponifiable matter %	AOCS Ca6b-53	≤1.5
Shelf life	12 months minimum in cool conditions in unopened container.	

TYPICAL FATTY ACID PROFILE

C14:0 Myristic Acid %	≤0.1
C16:0 Palmitic Acid %	5.0-8.0
C16:1 Palmitoleic Acid %	≤0.5
C17:0 Margaric Acid %	≤0.1
C17:1 Margaroleic Acid %	≤0.1
C18:0 Stearic Acid %	2.5-7.0
C18:1 Oleic Acid %	20.0-40.0



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C18:2 Linoleic Acid %	50.0-74.0
C18:3 Alpha Linolenic Acid %	≤0.5
C20:0 Arachidic Acid %	≤0.5
C20:1 Eicosenoic Acid %	≤0.5
C22:0 Behenic Acid %	≤1.0
C22:1 Erucic Acid %	Tr.

STORAGE

The reported shelf life is referred to the product stored at room temperature, possibly in the original packaging away from direct sunlight and heat sources.

DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

Please note as this is a wholly natural material some parameters, in particular, appearance, colour and odour, may change due to natural variation and climate change. This in no way affects the quality and efficacy of the product.

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