



## SISYMBRIUM IRIO OIL

### PRODUCT NAME

PREMIER SISYMBRIUM  
IRIO OIL

### APPLICATION(S)

Anti-aging  
Moisturizers  
Sensitive skin  
Sun Care

### COMPOSITION (INCI)

Sisymbrium irio Seed  
Oil

### ORIGIN

Plant

### CAS NUMBERS

92202-26-1

### USE LEVEL

0.1 – 0.3%

### SOLUBILITY

Oil

### PRODUCT CODE

Premier #422250

### PREMIER SISYMBRIUM IRIO OIL

Sisymbrium irio, commonly referred to as London Rocket or Desert Mustard, is an annual herb that bears pods of nutritious seeds rich in bioflavonoids and essential fatty acids. Believed to have originated in Persia, this plant can now be found around the world and has quite a history of use as a food source and for medicinal purposes. Used as an expectorant, stimulant and restorative, Sisymbrium has been ingested and used topically since ancient times to treat coughs and chest congestion, relieve rheumatism, detoxify the body, reduce swelling and clean wounds.

### WHY SISYMBRIUM IRIO OIL?

Premier's Sisymbrium Irio Seed Oil is the fixed oil obtained from the seeds of Sisymbrium irio. It is a cold pressed vegetable oil and a rich source (32-40%) of the (omega-6) polyunsaturated fatty acid, gamma linolenic acid (GLA), as well as is the (omega-3) fatty acid linoleic acid.

These fatty acids are essential to normal cell renewal and they have been reported to promote healthier looking skin, protect and strengthen skin firmness and reduce eczema problems.

### ACTIVITY OF SISYMBRIUM IRIO OIL

- ◆ Antioxidant
- ◆ Cell regulator promoting healthy skin growth
- ◆ Emollient
- ◆ Anti-inflammatory agent
- ◆ Protective; repairs skin-barrier
- ◆ Restores skin firmness and elasticity



# PREMIER SPECIALTIES

Premier Specialties, Inc. 201 Egel Avenue, Middlesex, New Jersey 08846-2502

## SISYMBRIUM IRIO OIL



### TYPICAL PROPERTIES

Appearance	Yellow to greenish brown liquid	
Odor	Characteristic	
Density (@20°C)	0.919 – 0.923	
Refractive Index (@20°C)	1.465 – 1.480	
Iodine value	130 - 180	
Saponification value	180 – 210	
Acid value	< 3%	
Peroxide value	< 15 eq/kg	
Fatty Acid Composition		
Palmitic	C16:0	5.0 – 6.0%
Stearic	C18:0	1.0 – 2.0%
Oleic	C18:1 n-9	11.0 – 14.0%
Linoleic	C18:2 n-6	16.0 - 19.0%
Linolenic	C18:3 n-3	34.0 – 40.0%
Arachidic	C20:0	1.0 – 2.0%
Gondoic	C20:1n-9	8.0 – 9.0%
Eicosenoic	C20:1 n-7	1.0 – 2.0%
Eicosadienoic acid	C20:2	1.0 – 2.0%
Eicosatetrenoic acid	C20:4	1.0 – 2.0%
Erucic acid	C21:1 n-9	8.0 – 10.0%

### REFERENCES

1. *Biochemical and Biophysical Research Communications*, March 17, 1998, pages 414–420.
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5. *Seminars in Dermatology*, June 1992, pages 169–175.
6. *Arch Dermatol Res.* 1998 Jul; 290(7):375-81.
7. Traitler, H., Winter, H., Richli, U. & Ingenbleek, Y. (1984) Characterization of -linolenic acid in ribes seed. *Lipids* 12:923-928.

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