

CERTIFICATE OF ANALYSIS

Geranium Certified Organic Oil



127



Not classified as hazardous according to criteria of Worksafe Australia

1. PRODUCT IDENTIFICATION AND COMPOSITION

1.1 Product Name:	Geranium Certified Organic Oil
1.2 Botanical Name:	<i>Pelargonium Graveolens</i>
1.3 Product Code:	OCGERA
1.4 Batch Number:	R3945408
1.5 Country of Origin:	South Africa
1.6 Product Type:	Natural essential oil
1.7 USA INCI Name:	Pelargonium Graveolens Flower Oil
1.8 EU INCI Name:	Pelargonium Graveolens

1.9 Ingredients:

Component Entity	CAS Number	EINECS Number	Proportions [%w/w]
Geranium Certified Organic Essential Oil	8000-46-2	Not allocated	100% pure

2. PHYSICAL AND CHEMICAL PROPERTIES

TEST	SPECIFICATION	RESULT
2.1 Appearance:	Clear, pale greenish-yellow liquid	Conforms.
2.2 Odour:	Characteristic geranium bourbon aroma	Conforms.
Odour Threshold:	Not available.	N/A
2.3 Specific Gravity:	0.850 to 0.920 @ 20°C	0.900
2.4 Refractive Index:	1.4500 to 1.4700 @ 20°C	1.4650
2.5 Optical Rotation:	-7.0° to -13.0° @ 20°C	-7.1°
2.6 Solubility:	Soluble in ethyl alcohol.	Conforms.
2.7 Solubility in Water:	Insoluble.	Conforms.
2.8 Flash Point:	75°C [Tag Closed Cup]	Conforms.

2.9 GAS CHROMATOGRAPH ANALYSIS --- and EFA Listed Sensitisers & IFRA Notifiable Substances

CONSTITUENT	IFRA	EFA	CAS Number	EINECS Number	RANGE	RESULT
Citronellol:	NO	YES	106-22-9	203-375-0	Not available.	18.6%
Geraniol:	NO	YES	106-24-1	203-377-1	Not available.	18.4%
Citronellyl Formate:	NO	NO	105-85-1	203-338-9	Not available.	7.6%
iso-Menthone:	NO	NO	491-07-6	207-727-4	Not available.	5.6%
Linalool:	YES	YES	78-70-6	201-134-4	Not available.	5.6%
10-epi-y-Eudesmol:	NO	NO	Not allocated	Not allocated	Not available.	5.2%
Geranyl Formate:	NO	NO	105-86-2	203-339-4	Not available.	4.3%
Citronellyl Propionate:	NO	NO	141-14-0	205-461-3	Not available	2.5%
Geranyl Butyrate:	NO	NO	106-29-6	203-381-3	Not available	1.6%
Geranyl Propionate:	NO	NO	105-90-8	203-344-1	Not available	1.6%
Geranyl Tiglate:	NO	NO	7785-33-3	232-078-9	Not available	1.5%
cis-Rose Oxide:	NO	NO	076-17-5	Not allocated	Not available	1.3%
Menthone:	NO	NO	89-90-5	Not allocated	Not available	1.0%
α-Pinene:	NO	NO	80-56-8	201-291-9	Not available	0.6%
trans-Rose Oxide:	NO	NO	076-18-6	Not allocated	Not available	0.5%