

## CERTIFICATE OF ANALYSIS

PRODUCT DETAILS		
Product Name	CALENDULA OIL INFUSED IN SUNFLOWER	
Product Code	HECALE	
INCI Name	Calendul Officinalis Flower & Refined Helianthus Annuus Seed Oil	
Batch Number	4412519	
Best Before End	October 2022	
Identification	CAS No: N/A	EINECS No: N/A
PHYSICAL AND CHEMICAL CHARACTERISTIC		
	SPECIFICATION RANGE	RESULTS
Appearance	Liquid	Conforms
Colour	Yellow to Orange	Conforms
Odour	Neutral	Conforms
Relative Density @ 20°C	0.905 - 0.923	0.919
Refractive Index @ 20°C	1.462 - 1.510	1.485
Flash Point	>100	Conforms
Peroxide Value (Meq/kg)	≤20.0	5
Acid Value (mgKOH/g)	≤4.0	0.14
Free Fatty Acid (% as Oleic)	≤2.0	0.07
FATTY ACID PROFILE %		
C 16:0 Palmitic Acid	5.0 - 7.6	6.1
C 18:0 Stearic Acid	2.7 - 6.5	5.2
C 18:1 Oleic Acid	14.0 - 39.0	34.1
C 18:2 Linoleic Acid	50.0 - 74.0	58.7
C 18:3 Alpha Linoleic Acid	<0.3	0.13
C 20:0 Aracgidic Acid	<1.0	0.5
C20:1 Icosenoic Acid	<1.0	0.5
C22:0 Docosanoic Acid	<1.0	0.5
STORAGE AND SHELF LIFE		
Storage	Store in tightly closed container with minimum headspace in a cool, dark and dry place.	

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**SAFETY DATA SHEET  
CALENDULA OIL INFUSED IN SUNFLOWER**

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

**Product name** CALENDULA OIL INFUSED IN SUNFLOWER  
**Product number** HECALÉ  
**Synonyms; trade names** Calendula Officinalis Flower &, Refined Helianthus Annuus Seed Oil

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses** Industrial, only for professional use

**1.3. Details of the supplier of the safety data sheet**

**Supplier**  
Madar Corporation  
19-20 Sandleheath Industrial Estate,  
Fordingbridge,  
Hampshire,  
SP6 1PA,  
UK  
Tel: 01425 655555  
Email:  
technical@madarcorporation.co.uk

**1.4. Emergency telephone number**

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification (EC 1272/2008)**

**Physical hazards** Not Classified  
**Health hazards** Not Classified  
**Environmental hazards** Not Classified

**2.2. Label elements**

**Hazard statements** NC Not Classified

**2.3. Other hazards**

**SECTION 3: Composition/information on ingredients**

**3.1. Substances**

**Product name** CALENDULA OIL INFUSED IN SUNFLOWER

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

<b>Inhalation</b>	Remove person to fresh air and keep comfortable for breathing. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Rinse nose and mouth with water. Do not induce vomiting. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

##### 4.2. Most important symptoms and effects, both acute and delayed

##### 4.3. Indication of any immediate medical attention and special treatment needed

#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

**Suitable extinguishing media** Use alcohol-resistant foam, carbon dioxide or dry powder to extinguish.

**Unsuitable extinguishing media** For safety reasons do not use full water jet.

##### 5.2. Special hazards arising from the substance or mixture

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Oxides of carbon.

##### 5.3. Advice for firefighters

**Special protective equipment for firefighters** Wear full protective clothing

#### SECTION 6: Accidental release measures

##### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Provide adequate ventilation. Avoid inhalation of vapours. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

##### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground.

##### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Cover with inert, inorganic, non-combustible material (e.g dry-lime, sand, soda ash). Place in covered containers and dispose of in accordance with local authority guidelines. Wash spill site after material pick up is complete.

##### 6.4. Reference to other sections

**SECTION 7: Handling and storage**
**7.1. Precautions for safe handling**

**Usage precautions** Apply good manufacturing practice and industrial hygiene practices. Keep containers sealed when not in use. Avoid contact with skin and eyes. Avoid inhalation of vapours. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Limit oxygenation (contact with air)

**7.3. Specific end use(s)**
**SECTION 8: Exposure Controls/personal protection**
**8.1. Control parameters**
**8.2. Exposure controls**
**Protective equipment**


**Appropriate engineering controls**

Provide adequate ventilation. Provide eyewash station

**Personal protection**

Use personal protection according to Directive 89/686/EEC

**Eye/face protection**

Approved safety goggles.

**Hand protection**

Chemical resistant gloves (PVC)

**Other skin and body protection**

Wear apron or protective clothing in case of contact.

**Hygiene measures**

Good personal hygiene procedures should be implemented.

**Respiratory protection**

Generally unnecessary in a well ventilated area.  
If ventilation is insufficient, respiratory protection must be worn.

**Environmental exposure controls**

Avoid discharging into drains.

**SECTION 9: Physical and Chemical Properties**
**9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Liquid.
<b>Colour</b>	Yellow. to Orange.
<b>Odour</b>	Neutral
<b>Flash point</b>	> 100°C
<b>Relative density</b>	0.905 - 0.923 @ 20°C
<b>Solubility(ies)</b>	Insoluble in water.

**9.2. Other information**

<b>Refractive index</b>	1.462 - 1.510 @ 20°C
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**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

**10.2. Chemical stability**

**Stability** Stable under the prescribed storage conditions.

**10.3. Possibility of hazardous reactions**

**10.4. Conditions to avoid**

**Conditions to avoid** Elevated temperatures (above 60c) Avoid exposure to high temperatures or direct sunlight.

**10.5. Incompatible materials**

**Materials to avoid** Avoid contact with the following materials: Strong acids. Strong alkalis. Strong oxidising agents.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** Does not decompose when used and stored as recommended.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Toxicological effects** No data recorded.

**SECTION 12: Ecological Information**

**12.1. Toxicity**

**12.2. Persistence and degradability**

**Persistence and degradability** >90% (OECD). This product is unlikely to accumulate in the environment and environmental problems under normal use conditions are not expected.

**12.3. Bioaccumulative potential**

**12.4. Mobility in soil**

**12.5. Results of PBT and vPvB assessment**

**12.6. Other adverse effects**

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**SECTION 14: Transport information**

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

**14.1. UN number**

Not applicable.

**14.2. UN proper shipping name**

Not applicable.

**14.3. Transport hazard class(es)**

No transport warning sign required.

**14.4. Packing group**

Not applicable.

**14.5. Environmental hazards**

**Environmentally hazardous substance/marine pollutant**

No.

**14.6. Special precautions for user**

Not applicable.

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

**Transport in bulk according to** Not applicable.

**Annex II of MARPOL 73/78**

**and the IBC Code**

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU legislation** Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

**Guidance** CHIP for everyone HSG228.

**15.2. Chemical safety assessment**

**SECTION 16: Other information**

**Revision date** 26/04/2017

**Revision** 1

**SDS number** 4917



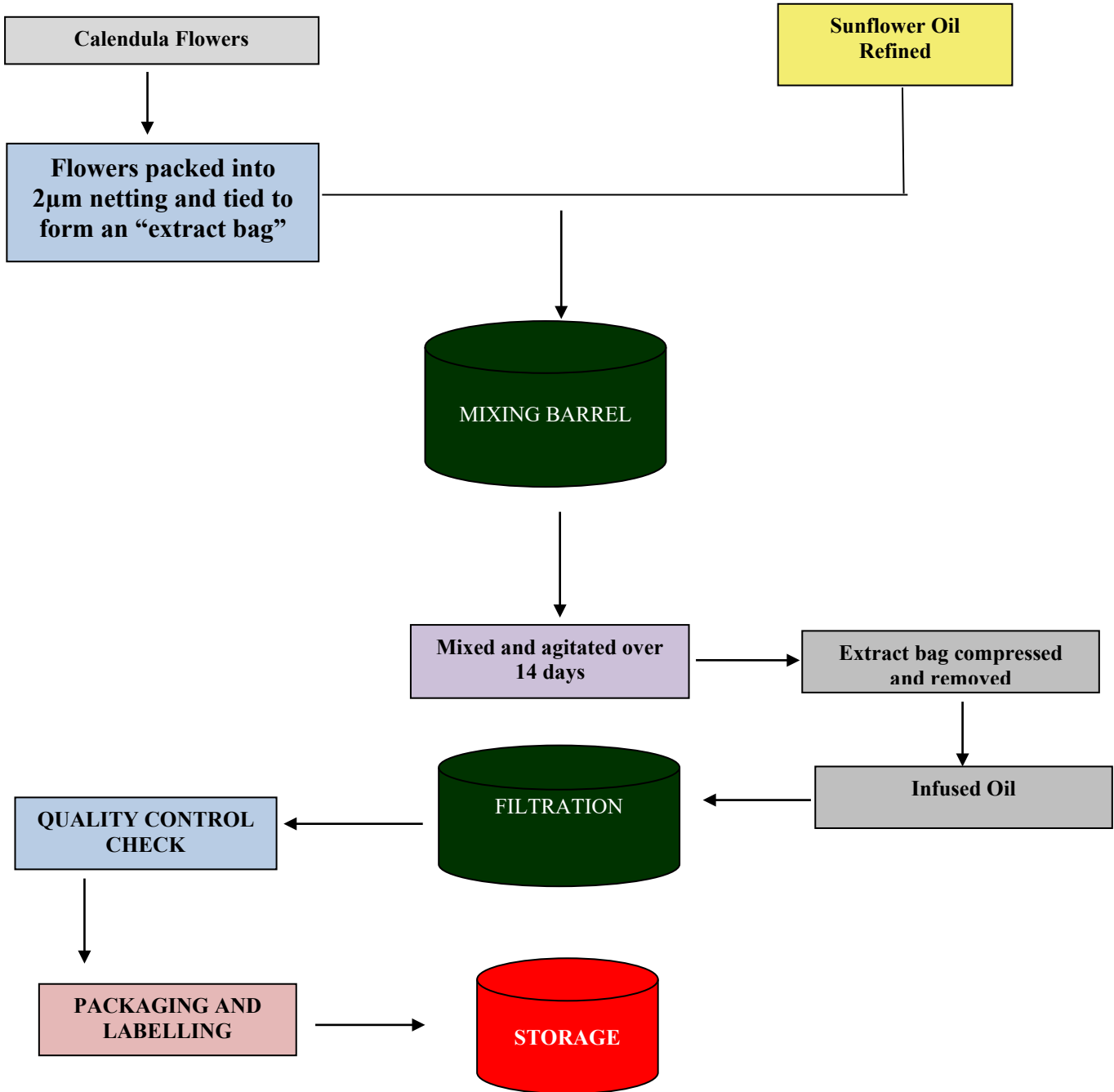
## Product Specification

<b>PRODUCT DETAILS</b>		
Product Name	<b>CALENDULA OIL INFUSED IN SUNFLOWER</b>	
Product Code	HECALE	
INCI Name	Calendul Officinalis Flower & Refined Helianthus Annuus Seed Oil	
Tariff Number	13021970	
Natural Status	We hereby declare, to the best of our knowledge and from information received from our supplier, that this product is in accordance to the requirements of Articles 3 (2) (d) of Regulation (EC) 1334/2008 and therefore can be designated as natural.	
Food Grade Status	N/A	
Kosher Certified	No	
GMO Declaration	To the best of our knowledge and from information received from our supplier, this product does not derive from genetically modified starting raw material, or additives that are derived from genetically modified organisms.	
Identification	CAS No: N/A	EINECS No: N/A
<b>PHYSICAL AND CHEMICAL CHARACTERISTIC</b>		
Appearance	Liquid	
Colour	Yellow to Orange	
Odour	Neutral	
Relative Density @ 20°c	0.905 - 0.923	
Refractive Index @ 20°c	1.462 - 1.510	
Flash Point	>100	
Peroxide Value (Meq/kg)	≤20.0	
Iodine Value (mg/g)	112.0 - 145.0	
Acid Value (mgKOH/g)	≤4.0	
Free Fatty Acid (% as Oleic)	≤2.0	
<b>FATTY ACID PROFILE %</b>		
C 16:0 Palmitic Acid	5.0 - 7.6	
C 18:0 Stearic Acid	2.7 - 6.5	
C 18:1 Oleic Acid	14.0 - 39.0	
C 18:2 Linoleic Acid	50.0 - 74.0	
C 18:3 Alpha Linoleic Acid	<0.3	
C 20:0 Aracgidic Acid	<1.0	
C20:1 Icosenoic Acid	<1.0	
C22:0 Docosanoic Acid	<0.1	
<b>FRAGRANCE ALLERGENS</b>		
NONE PRESENT		
<b>FOOD ALLERGENS</b>		
NONE PRESENT		
<b>IFRA</b>		
NONE PRESENT		
<b>STORAGE AND SHELF LIFE</b>		
Storage	Store in tightly closed container with minimum headspace in a cool, dark and dry place.	
Shelf Life	24 months unopened and stored as above.	

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 Tel: 01425 655355 Email: technical@madarcorporation.co.uk

## PROCESSING – CALENDULA OIL INFUSED IN SUNFLOWER FLOW CHART







## Vegan and Vegetarian Statement

IDENTIFICATION	
Product:	Calendula Infused in Sunflower
Cas No:	NA
EINECS No:	NA
STATEMENT	
<p>We, Madar Corporation Limited, from information received from our supplier, hereby declare that the material listed above is compliant with a vegan or vegetarian diet.</p> <p>It does not contain any animal ingredients or animal by products. No animal ingredients or by products are used in the manufacturing process.</p> <p>This document represents to the best of our knowledge and from information received from our supplier. It does not release the buyer from the obligation to carry out an examination of the goods received. All uses made by the buyer are done under their own responsibility.</p>	