

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	4423201	
Best Before End	February 2023	
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	2
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	6.97
C 18:0 Stearic Acid	2.7 - 6.5	3.52
C 18:1 Oleic Acid	14.0 - 39.0	29.36
C 18:2 Linoleic Acid	50.0 - 74.0	58.84
C 18:3 Alpha Linoleic Acid	<0.3	0.13
C 20:0 Aracgidic Acid	<1.0	0.22
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.	

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 users responsibility to satisfy himself as to the suitability of such information for his own particular use. Where MADAR Corporation make a declaration that allergenic material are not present in any product, this statement is made assuming reasonable levels of detection. It is impossible to guarantee the "absolute absence" of any material. **It is the ultimate responsibility of the customer to ensure the safety of the intended final product containing this material, by carrying out additional tests if necessary.**



**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

Inhalation	Remove person to fresh air and keep comfortable for breathing. Get medical attention if any discomfort continues.
Ingestion	Rinse nose and mouth with water. Do not induce vomiting. Get medical attention if any discomfort continues.
Skin contact	Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
Eye contact	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

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

9.2. Other information

Refractive index	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



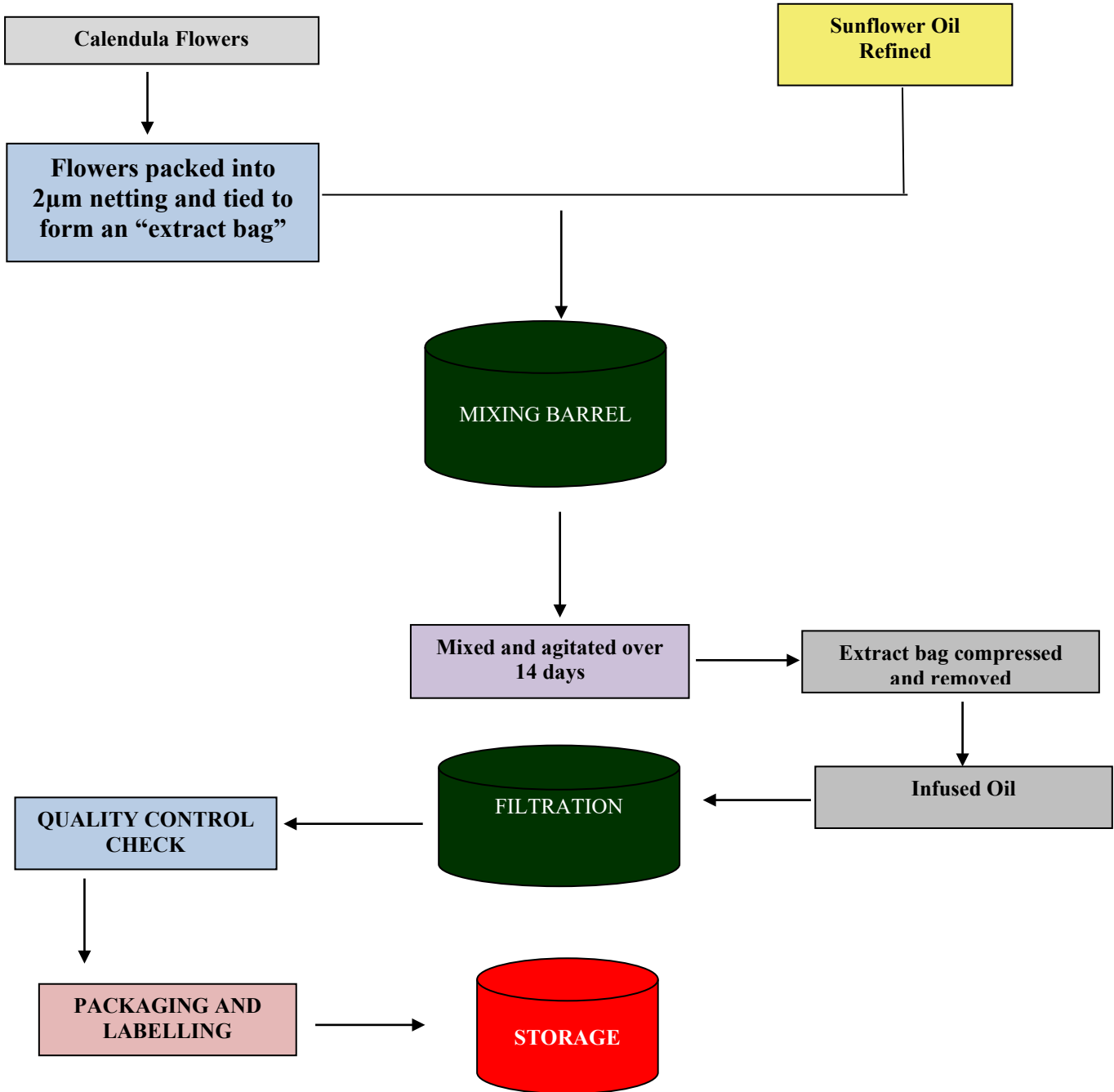
Product Specification

PRODUCT DETAILS	
Product Name	CALENDULA OIL INFUSED IN SUNFLOWER
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
PHYSICAL AND CHEMICAL CHARACTERISTIC	
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
FATTY ACID PROFILE %	
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
FRAGRANCE ALLERGENS	
NONE PRESENT	
FOOD ALLERGENS	
NONE PRESENT	
IFRA	
NONE PRESENT	
STORAGE AND SHELF LIFE	
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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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>	