

Certificate of Analysis

Product Name	Comfrey Oil Infused		
Batch Number	4569305	Best Before End	February 2027
Description	An extract of the leaves of the Comfrey, <i>Symphytum officinale</i> L., <i>Boraginaceae</i> Combined with Sunflower oil.		
Appearance	Slightly viscous liquid, yellow brown to yellow green.		
Odour	Characteristic		
INCI Name	Symphytum Officinale Leaf Extract & Helianthus Annuus Seed Oil.		
CAS Number	84696-05-9 / 8001-21-6	EC Number	283-625-3 / 232-273-9

TEST SPECIFICATION

ANALYTICAL TEST	SPECIFICATION RANGE	RESULTS
Specific Gravity @ 20°C (g/ml)	0.903 - 0.930	Conforms
Refractive Index @ 20°C	1.462 - 1.510	Conforms
Acid Value (mg KOH/g)	≤ 4.0	Conforms
Free Fatty Acid (% as Oleic)	≤ 2.0	Conforms
Peroxide Value (Meq/kg)	≤ 15.0 (<i>at time of production analysis</i>)	Conforms

STORAGE

Store product in full, tightly closed containers in a cool dry place away from heat and sunlight.

STABILITY

When stored for more than 24 months, quality should be checked before use.

Safety Data Sheet

01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING

1.1 Product Identifier					
Product Name		Comfrey Oil Infused.			
Biological Definition		An extract of the leaves of the Comfrey, <i>Symphytum officinale</i> L., <i>Boraginaceae</i> Combined with Sunflower oil.			
INCI Name		Symphytum Officinale Leaf Extract, Helianthus Annuus Seed Oil.			
Synonyms & Trade Names		-			
CAS-No	84696-05-9 / 8001-21-6	EC No.	283-625-3 / 232-273-9	EINECS No.	283-625-3 / 232-273-9
1.2 Relative identified uses of the substance or mixture and uses advised against					
No additional data available.					
1.3 Details of the supplier of the safety data sheet					
MADAR Corporation Ltd, 19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA					
1.4 Emergency Tel. No.		+ 44 (0) 1425 655555			

02. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
Not classed as a hazardous substance.	
Classification (EC 1272/2008)	
Not classed as a hazardous substance.	
2.2 Label Elements	
Label in accordance with (EC) No 1272/2008	
None.	
Signal Word	None.
Contains	Contains no hazardous substances.
Hazard Statements	
None.	
Precautionary Statements	
None.	
Supplementary Precautionary Statements	
None.	
2.3 Other Hazards	
PBT or vPvB according to Annex XIII	No additional data available.
Adverse physio-chemical properties	No additional data available.
Adverse effects on human health	No additional data available.

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances		
Helianthus Annuus Seed Oil	Cas No: 84696-05-9	Not classed as a hazardous substance.
Symphytum Officinale Leaf Extract	Cas No: 8001-21-6	Not classed as a hazardous substance.

04. FIRST AID MEASURES

4.1 Description of first aid measures	
Inhalation	None.
Ingestion	None.
Skin Contact	Remove contaminated clothing. Wash skin with soap and water. Seek medical attention if any discomfort continues.
Eye Contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.
4.2 Most important symptoms and effects, both acute and delayed	
No symptoms known.	
4.3 Indication of any immediate medical attention and special treatment needed	
None.	

05. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media	
Extinguishing media : Carbon dioxide (CO ₂). Dry Chemical Powder. Foam. Unsuitable extinguishing media: Full water jet.	
5.2 Special hazards arising from the product	
This product is made up of inflammable material with low risk. The product may only form ignitable mixtures or burn only upon heating above the flash point. However, minor contamination by lightly volatile hydrocarbons may in-crease the hazard. Ignition hazard at welding at the empty container. Dangerous combustion residues: smoke, carbon monoxide, carbon dioxide.	
5.3 Advice for firefighters	
In case of fire; Use respirator.	

06. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	
Remove sources of ignition, provide adequate ventilation, avoid contact with skin and eye contact.	
6.2 Environmental Precautions	
Do not discharge into drains, water courses or onto the ground. Dispose of in line with Local authority guidelines.	
6.3 Methods and material for containment and cleaning up.	
Cover with an inert, inorganic, non-combustible absorbent material (e.g dry-lime, sand, soda ash). Place in covered containers and dispose of in accordance with current laws and regulations. If Spillage on water occurs; Confine the spill immediately with booms. Warn other ships. Notify port and other relevant authorities. Remove from the surface by skimming or with suitable absorbents. In running waters, apply appropriate dispersants in accordance with local regulation.	
6.4 Reference to other sections	
None.	

07. HANDLING AND STORAGE

7.1 Precautions for safe handling
Keep containers leak proof closed and dry. Protect against sun/light. Prevent spills and leakages to avoid slip hazard.
7.2 Conditions for safe storage, including any incompatibilities
Intrusion into soil to be avoided. Store the product in cool (max. at room temperature) and well-ventilated environment and keep away from sources of ignition. Provide suitable mechanical equipment for the safe handling of drums and heavy packages. Electrical equipment and fittings must comply with local regulations.
7.3 Specific end use(s)
No additional data available.

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
None.
8.2 Exposure controls
Protective Equipment
No special measures required.
Process Conditions
No special measures required.
Engineering Measures
No special measures required.
Respiratory Equipment
No special measures required.
Hand Protection
No special measures required.
Eye Protection
No special measures required.
Other Protection
No special measures required.
Hygiene Measures
Good personal hygiene practices are always advisable, especially when working with chemicals / oils.
Personal Protection
Use personal protection according to Directive 89/686/EEC.
Skin Protection
No special measures required.
Environmental Exposure Controls
Avoid discharging into drainage water.

09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
Appearance
Clear, slightly viscous liquid.
Colour
Yellow brown to yellow green.
Odour
Characteristic
Relative Density
0.903 - 0.930 @ 20°C
Flash Point (°C)
No additional data available.
Refractive Index
1.462 - 1.510 @ 20°C
Melting Point (°C)
No additional data available.
Boiling Point (°C)
No additional data available.
Vapour Pressure
No additional data available.
Solubility in Water @20°C
Insoluble in water. Soluble in oil and ethanol.
Auto-ignition temperature (°C)
No additional data available.
9.2 Other information
No additional data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity
Oxidation with atmospheric oxygen. Formation of free fatty acids.
10.2 Chemical stability
Stable under the recommended handling and storage conditions.
10.3 Possible hazardous reactions
Reacts with oxidants.
10.4 Conditions to Avoid
Avoid heat, flames, sunlight and other sources of ignition.
10.5 Incompatible materials
Avoid contact with strong oxidising agents.
10.6 Hazardous Decomposition Products
Product does not decompose at proper handling.

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute Toxicity	In compliance with generally accepted uses and quantities are no negative impacts to be expected. LD50 oral: not determined LD50 dermal: not determined LC50: not determined Inhalation: There is no expected negative impact. Ingestion: There is no expected negative impact. Skin contact: There is no expected negative impact. Eye contact: There is no expected negative impact.
Skin corrosion / irritation	In compliance with generally accepted uses and quantities are no negative impacts to be expected.
Serious eye damage / irritation	In compliance with generally accepted uses and quantities are no negative impacts to be expected.
Respiratory or skin sensitisation	In compliance with generally accepted uses and quantities are no negative impacts to be expected.
Germ Cell Mutagenicity	No additional data available.
Carcinogenicity	No expected negative impact.
Reproductive toxicity	No expected negative impact.
STOT-single exposure	No additional data available.
STOT-repeated exposure	No additional data available.
Aspiration hazard	No additional data available.
Photo-toxicity	No additional data available.
Other Information	No additional data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No additional data available.
12.2 Persistence & degradability
Biodegradable.
12.3 Bioaccumulation Potential
Possible.

12.4 Mobility in soil
No additional data available.
12.5 Results of PBT and vPvB Assessment
No additional data available.
12.6 Other adverse effects
Do not allow product to enter streams, sewers or other waterways.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Collect and dispose of waste product at an authorised disposal facility. Product remainders should not intrude soil or waters.

14. TRANSPORT INFORMATION

14.1 UN number	
UN No. Road	No additional data available.
UN No. SEA	No additional data available.
UN No. AIR	No additional data available.
14.2 UN proper shipping name	
No additional data available.	
14.3 Transport hazard class(es)	
No additional data available.	
14.4 Packing group	
No additional data available.	
14.5 Environmental hazards	
No hazard label necessary – non hazardous product.	
14.6 Special precautions for user	
See sections 6 – 8.	
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code	
Not defined.	

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
An assessment has not been carried out.
15.2 Chemical safety assessment
No additional information available.

16. OTHER INFORMATION

Hazard and/or Precautionary Statements in Full	None.
Other Information	None.
Revision Date	30/07/2015
Reason for revision	New SDS.
Rev No/Repl, SDS Generated	01

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.

Product Specification

Product Name	Comfrey Oil Infused				
Date	24/05/2016	Product Code	-	Rev	02
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