



## CERTIFICATE OF ANALYSIS

<b>MATERIAL</b>	<b>GERANIUM LEAF ABSOLUTE</b>
<b>CAS NUMBER</b>	<b>90082-51-2</b>
<b>EINECS NUMBER</b>	<b>290-140-0</b>
<b>REACH REGISTRATION</b>	<b>Exempt &lt; 1 tpa</b>
<b>BATCH NUMBER</b>	<b>4411005</b>
<b>BEST BEFORE DATE</b>	<b>OCTOBER 2023</b>

<b>Appearance</b>	<b>Yellow to greenish-yellow liquid</b>
<b>Odour</b>	<b>Characteristic of Geranium</b>
<b>Specific Gravity @ 20°C</b>	<b>0.9185</b>
<b>Refractive Index @ 20°C</b>	<b>1.477</b>
<b>Flashpoint</b>	<b>85°C</b>
<b>Solubility</b>	<b>Soluble in ethanol</b>

### Storage

Original unopened container, at ambient temperature, under dry conditions and away from light. The shelf life is not valid out of the mentioned conditions.

### Handling

According to IFRA Code of Practice.

### Caution

Concentrated product for industrial use avoid contact with eyes and mucous. Do not drink.

This information contained in this data sheet is to the best of our knowledge, including the data supplied by our suppliers, current at the mentioned date and remain the property of the issuer. Alteration can result of improper transport and/or storage. The certificate does not release the user from the responsibility of undertaking his own tests of conditions and suitability in the intended uses with regard to the current legal and statutory measures.



## ALLERGEN LISTING

MATERIAL NAME: GERANIUM LEAF ABSOLUTE

INGREDIENT	CAS No.	TOTAL
Alpha-Isomethylionone	127-51-5	A
Amyl Cinnamal	122-40-7	A
Amylcinnamyl Alcohol	101-85-9	A
Anise Alcohol	105-13-5	A
Benzyl Alcohol	100-51-6	A
Benzyl Benzoate	120-51-4	A
Benzyl Cinnamate	103-41-3	A
Benzyl Salicylate	118-58-1	A
Butylphenyl Methylpropional (Lilial)	80-54-6	A
Cinnamal	104-55-2	A
Cinnamyl Alcohol	104-54-1	A
Citral	106-26-3	A
	141-27-5	A
	5392-40-5	1.5%
Citronellol	106-22-9	43.0%
	1117-61-9	A
	141-25-3	A
	6812-78-8	A
	68916-43-8	A
	7540-51-4	A
Coumarin	91-64-5	A
Eugenol	97-53-0	A
Evernia Furfuraceae (Tree Moss) Extract	90028-67-4	A
Evernia Prunastri (Oak Moss) Extract	90028-68-5	A
Farnesol	4602-84-0	A
Geraniol	106-24-1	20.0%
Hexyl Cinnamal	101-86-0	A
Hydroxycitronellal	107-75-5	A
Hydroxyisohexyl 3-Cyclohexene Carbocaldehyde (Lyral)	31906-04-4	A
Isoeugenol	97-54-1	A
Limonene	138-86-3	1.0%
	5989-27-5	A
	5989-54-8	A
Linalool	126-90-9	A
	126-91-0	A
	78-70-6	11.0%
Methyl 2-Octynoate	111-12-6	A

\* A denotes absent

The information contained herein is true and accurate to the best of our knowledge.

We will not therefore accept liability for misuse of this data.

19-20 Sandealth Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK

Tel: 01425 655555 Email: technical@madarcorporation.co.uk

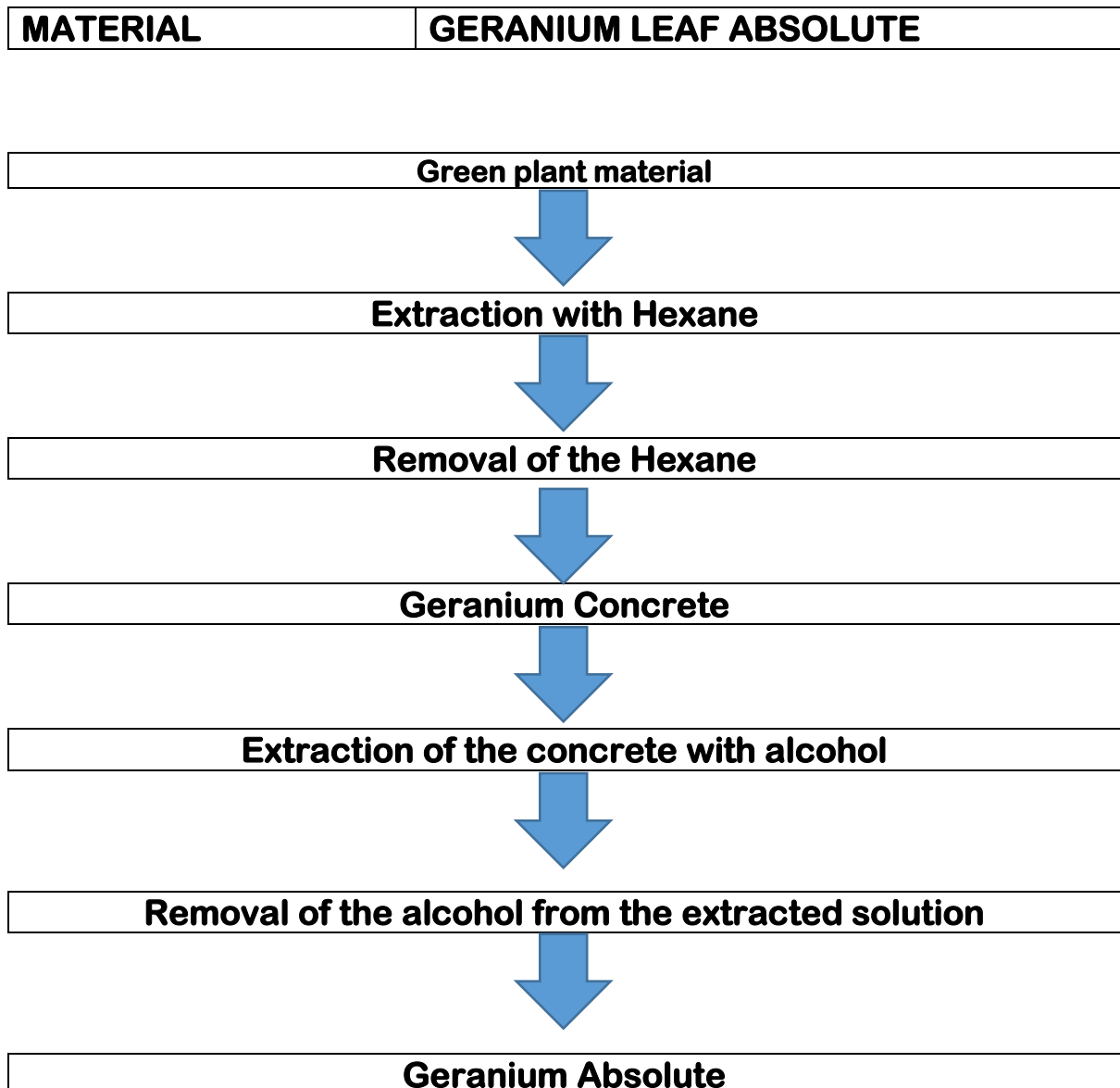
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## MANUFACTURING PROCESS





## **GMO DECLARATION**

<b>MATERIAL</b>	<b>GERANIUM LEAF ABSOLUTE</b>
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**According to Regulations 1829/2003/EC & 1830/2003/EC.**

**Our company supplies the above ingredient to your company.**

**We declare that this product:**

- **Does not consist and does not contain Genetically Modified Organisms.**
- **Is not produced from and does not contain ingredients produced from Genetically Modified Organisms.**

We certify that the above substance is in compliance with the Standards of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA), 49<sup>th</sup> Amendment to the IFRA Code of Practice (published January, 2020). It does not appear in the IFRA list of standards and so no information is available on its use in the IFRA Classes:

IFRA Class(es) (See respective IFRA guidance for details)	Level of Use (%)
-	-

The IFRA Standards are based on safety assessments by the Panel of Experts of the RESEARCH INSITUTE FOR FRAGRANCE MATERIALS (RIFM).

**Recommendation:** Information about presence and concentration of IFRA restricted/prohibited materials in the Geranium Absolute is as follows:

**IFRA Restricted Materials:** None

Ingredient Name	CAS No.	Concentration
l-citronellol	7540-51-4	10.6%
Geraniol	106-24-1	9.0%

**IFRA Prohibited Materials:** None

Ingredient Name	CAS No.	Concentration %
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**DISCLAIMER:** This Certificate provides restriction for the use of the specified product based only on those materials restricted by IFRA Standards for the toxicity endpoint(s) described in each Standard. This Certificate does not provide certification of a comprehensive safety assessment of all product constituents.

This Safety Data Sheet contains information concerning the potential risks to those involved in handling, transporting and working with the material, as well as describing potential risks to the consumer and the environment. This information must be made available to those who may come into contact with the material or are responsible for the use of the material. This Safety Data Sheet is prepared in accordance with formatting described in the REACH Regulation (EC) No. 1907/2006, and described in CLP Regulation (EC) No. 1272/2008.

### 1 Identification of the Substance/Mixture and of the Company/Undertaking

1.1	<b>Product Identifier</b>	GERANIUM LEAF ABSOLUTE
	<b>CAS Number</b>	90082-51-2
	<b>EC Number</b>	290-140-0
	<b>REACH Registration</b>	Exempt < 1 tpa
1.2	<b>Relevant Identified Uses of the Substance or Mixture and Uses Advised Against</b>	Multiple uses in the Flavour and Fragrance industries.
1.3	<b>Details of the Supplier of the Safety Data Sheet</b>	Madar Corporation Limited 19 - 20 Sandealth Industrial Estate, Fordingbridge, SP6 1PA TEL: 01425 655 555 EMAIL: technical@madarcorporation.co.uk
1.4	<b>Further Information Obtainable from</b>	

### 2 Hazards Identification

#### 2.1 Classification of the Substance:

<b>Classification in Accordance with GHS Hazard Codes</b>	<b>H227</b>	Combustible liquid.
	<b>H313</b>	May be harmful in contact with the skin.
	<b>H315</b>	Causes skin irritation.
	<b>H317</b>	May cause an allergic skin reaction.
	<b>H319</b>	Causes serious eye irritation.
	<b>H402</b>	Harmful to aquatic life.

**Classification in Accordance with the Classification, Labelling and Packaging Regulation EC No. 1272/2008:**

#### Hazard Statements:

<b>H315</b>	Causes skin irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H319</b>	Causes serious eye irritation.

#### Precautionary Statements:

<b>P262</b>	Do not get in eyes, on skin, or on clothing.
<b>P280</b>	Wear protective gloves/protective clothing/eye protection/face protection.
<b>P305+P351+P338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### 2.2 Label Elements:

<b>Signal Word</b>	WARNING
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**Hazard Pictograms:****3 Composition/Information on Ingredients**

<b>3.1</b>	<b>Substances</b>	GERANIUM ABSOLUTE 100%
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**4 First Aid Measures****4.1 Description of First Aid Measures:**

<b>Eye Contact</b>	Irrigate the eyes with copious volumes of water for at least 15 minutes with the eyelids held open. Seek medical advice if inflammation persists.
<b>Inhalation</b>	Remove person to fresh air, remove any contaminated clothing, in case of breathing difficulty seek medical advice.
<b>Skin Contact</b>	Wash affected area with soap and running water, if irritation persists seek medical advice.
<b>Ingestion</b>	Dilute internally with water, do not induce vomiting. Seek medical advice immediately.

<b>4.2</b>	<b>Most Important Symptoms and Effects, both Acute and Delayed</b>	
<b>4.3</b>	<b>Indication of any Immediate Medical Attention and Special Treatment Needed</b>	Symptomatic treatment as required.

**5 Fire-fighting Measures**

<b>5.1</b>	<b>Extinguishing Media</b>	Foam, Carbon dioxide (CO <sub>2</sub> ), dry powder.
<b>5.2</b>	<b>Special Hazards Arising from the Substance or Mixture</b>	Combustion products: Carbon Monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), smoke.
<b>5.3</b>	<b>Advice for Fire-fighters</b>	Do not use water as extinguishing media. No special firefighting equipment required.

**6 Accidental Release Measures**

<b>6.1</b>	<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Wear clothing suitable for an emergency.
<b>6.2</b>	<b>Environmental Precautions</b>	Contain the leak with earth or sand. Prevent from entering drains, sewers and water courses. If this cannot be done, advise the local authority.
<b>6.3</b>	<b>Methods and Material for Containment and Cleaning Up</b>	Absorb spillage onto sand or earth. Transfer to a suitable container for disposal.

### 7 Handling and Storage

7.1	Precautions for Safe Handling	Handle in a well-ventilated area, away from sources of ignition. Do not smoke.
7.2	Conditions for Safe Storage, Including any Incompatibilities	Store in well-filled, tightly closed containers away from heat, light and sources of ignition.
7.3	Specific End Use(s)	Used in Flavours and Fragrances.

### 8 Exposure Controls/Personal Protection

8.1	Control Parameters	No data available.
	DNELs for Workers	No data available.
	PNECs	No data available.

#### 8.2 Exposure Controls:

Engineering Controls	Use suitable handling equipment.
Respiratory Protection	Use only in well ventilated areas. Use protection in poor ventilation.
Hand Protection	Wear gloves.
Eye Protection	Wear goggles.
Skin Protection	Wear suitable protective clothing.

### 9 Physical and Chemical Properties

#### 9.1 Information on Basic Physical and Chemical Properties:

Appearance	Yellow to greenish-yellow liquid.
Odour	Characteristic of Geranium.
Odour Threshold	No data available.
pH	Not applicable.
Melting Point	Not applicable.
Boiling Point	Not applicable.
Flash Point	85°C
Evaporation Rate	No data available.
Flammability	Combustible.
Upper/Lower Flammability Limits	No data available.
Vapour Pressure	No data available.
Vapour Density	No data available.
Specific Gravity @ 20°C	0.895 to 0.950
Solubility in Water	Insoluble.
Solubility in Other Solvents	Soluble.
Partition Coefficient (log Kow)	No data available.
Autoignition Temperature	No data available.
Decomposition Temperature	No data available.
Viscosity	No data available.
Explosive Properties	No data available.
Oxidising Properties	None.
Particle Size	Not applicable.



### 10 Stability and Reactivity

10.1	Reactivity	Will react with oxidising agents.
10.2	Chemical Stability	Stable under proper storage conditions.
10.3	Possibility of Hazardous Reactions	Not id stored correctly.
10.4	Conditions to Avoid	Do not leave containers open to the air. Avoid storage at elevated temperatures and sources of ignition.
10.5	Incompatible Materials	Oxidising agents.
10.6	Hazardous Decomposition Products	On combustion may produce smoke, Carbon monoxide (CO) and Carbon dioxide (CO <sub>2</sub> ).

### 11 Toxicological Information

11.1	Information on Toxicological Effects	This product has not been tested. Judgments on the expected toxicity of this product have been made based upon consideration of its major components.	
	Toxicokinetics	Acute Toxicity	LD50 (Rat). Dermal (Rabbit). No data available.
		Skin Corrosion/Irritation	May cause skin irritation.
		Serious Eye Damage/Irritation	May cause eye irritation.
		Respiratory/Skin Sensitisation	May cause an allergic skin reaction.
		Germ Cell Mutagenicity	No data available.
		Reproductive Toxicity	No data available.
		STOT-single Exposure	No data available.
		STOT-repeated Exposure	No data available.
Aspiration Hazard	No data available.		

### 12 Ecological Information

12.1	Toxicity	No data available.
12.2	Persistence and Degradability	No data available.
12.3	Bioaccumulative Potential	No data available.
12.4	Mobility in Soil	No data available.
12.5	Results of PBT and vPvB Assessment	No data available.
12.6	Other Adverse Effects	No data available.

### 13 Disposal Considerations

13.1	Waste Treatment Methods	Do not dispose into drainage systems. Ensure disposal is within local and national guidelines. Consult a specialist waste disposal company for correct disposal procedure and/or seek expert advice.
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### 14 Transport Information

14.1	UN Number	Not regulated.
14.2	UN Proper Shipping Name	Not regulated.
14.3	Transport Hazard Class(es)	Not regulated.
14.4	UN Packing Group	Not regulated.
14.5	Environmental Hazards	Not regulated.
14.6	Special Precautions for User	Not regulated.

<b>14.7</b>	<b>Transport in Bulk According to Annex II or MARPOL73/78 and the IBC Code</b>	Not regulated.
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### 15 Regulatory Information

<b>15.1</b>	<b>Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture</b>	This substance is listed as existing in Europe.
<b>15.2</b>	<b>Chemical Safety Assessment</b>	A Chemical Safety Assessment has not been carried out for this product.

### 16 Other Information

#### 16.1 Key to Abbreviations:

Abbreviation	Meaning
<b>CAS</b>	Chemical Abstracts Service.
<b>CLP</b>	Classification, Labelling and Packaging Regulation (EC) No. 1272/2008.
<b>DSD</b>	Dangerous Substances Directive 67/548/EEC.
<b>DPD</b>	Dangerous Preparations Directive 1999/45/EC.
<b>EC</b>	European Community/Commission.
<b>PBT</b>	Persistent, Bioaccumulative and Toxic.
<b>REACH</b>	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No. 1907/2006.
<b>vPvB</b>	Very Persistent, very Bioaccumulative.

#### WARNING/DISCLAIMER:

The information in this Safety Data Sheet is based on the properties of the material known to H Reynaud & Fils (UK) Ltd at the time the data sheet was issued. The Safety Data Sheet is intended to provide information for a health and safety assessment of the material and the circumstances under which it is packaged, stored or applied in the workplace. This document is not intended for quality assurance purposes.





## **VEGETARIAN & VEGAN SUITABILITY STATEMENT**

<b>MATERIAL</b>	<b>GERANIUM LEAF ABSOLUTE</b>
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**We declare that the material mentioned above is free of:**

**Meat (red meat, poultry, seafood and the flesh of any animal), and by-products of animal slaughter.**

**Therefore, can be used for vegetarian and vegan suitability.**

**This information is valid when issued by H Reynaud & Fils (UK) Ltd. The information contained herein is true and accurate to the best of our knowledge. All information is valid until revisions are issued. We will not therefore accept liability for misuse of the data resulting in damage or loss.**