

# SAFETY DATA SHEET (SDS)

## Geranium Essential Oil

### 1. PRODUCT AND COMPANY IDENTIFICATION

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Product name	:	Geranium Essential Oil
Botanical name	:	pelargonium x asperum
Synonyms	:	Pelargonium graveolens
INCI name	:	Pelargonium Graveolens Flower Oil
CAS #	:	8000-46-2
EINECS #	:	290-140-0
Product use	:	Domestic and Industrial
Supplier	:	ASES CHEMICAL WORKS
Address	:	Brahm Bagh, Jalori Gate Jodhpur - 342001 Rajasthan-India Ph: +91-9636889954 Email : ecom@ases.in Website : www.ases.in

### 2. HAZARDS IDENTIFICATION

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#### Emergency Overview

#### GHS Classification

Flammable Liquids - Category 4

Skin corrosion / irritation - Category 2

Skin Sensitization - Category 1

Serious eye damage / eye irritation - Category 1

Hazardous to aquatic environment - Acute - Category 2

Hazardous to aquatic environment - Chronic - Category 3

#### GHS Label elements, including precautionary statements



Signal: Warning

#### Hazard statement(s)

H227	Combustible liquid.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H401	Toxic to aquatic life.
H402	Harmful to aquatic life.

**Precautionary statement(s)**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fumes/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician,
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P308+P313	If exposed: Call a POISON CENTER or doctor/physician.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists get medical advice/attention.
P362	Take off contaminated clothing.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use extinguishing media listed in Section 5 of the SDS to extinguish.
P403+P235	Store in a well ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents and container in accordance with local, regional, national and/or international regulation for hazardous wastes.

**3. COMPOSITION / INFORMATION INGREDIENTS**

Product Name	CAS NO	EC NO	Concentration
Citronellol	106-22-9	203-375-0	25 - 36 %
Geraniol	106-24-1	203-377-1	10 - 18 %
Linalool	78-70-6	201-134-4	4.0 - 8.5 %
Geranyl acetate	105-87-3	203-341-5	1.0 - 5.0 %
Menthone	10458-14-7	233-944-9	0.0 - 2.1 %
Citral (Geranial & Neral)	5392-40-5	226-394-6	0.0 - 2.0 %
Alpha-Pinene	80-56-8	201-291-9	0.0 - 1.5 %
Beta-Pinene	127-91-3	204-872-5	0.0 - 1.0 %
Limonene	5989-27-5	227-813-5	0.0 - 0.5 %

**4. FIRST AID MEASURES****Eye contact**

Immediately flush eyes with plenty of cool water for at least 15 minutes. Get medical attention if irritation occurs.

**Skin contact**

Remove contaminated clothing. Wash area with soap and water. If irritation occurs, get medical attention.

**Inhalation**

If inhaled, removed to fresh air. Get medical attention if symptoms appear.

**Ingestion**

Seek medical attention or contact local poison control center.

## 5. FIRE FIGHTING MEASURES

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### **Suitable extinguishing media**

Foam. Dry Powder. Carbon dioxide.

### **Unsuitable extinguishing media**

Water spray, water jet.

### **Special protective equipment and precautions for fire-fighters**

High temperature may increase the pressure inside the closed container: cool the container by sprinkling water. Avoid breathing emitted vapors. Wear proper protective equipment. Exercise caution when fighting any chemical fire.

### **Special hazards arising from the substance or its combustible products**

Hazardous decomposition products may be formed at extreme heat or if burned.

### **Resulting gases**

Carbon oxides.

## 6. ACCIDENTAL RELEASE MEASURES

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

Equip clean crew with proper protection. Respiratory protection equipment may be necessary.

### **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

### **Methods and materials for containment and cleaning up**

Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers.

## 7. HANDLING AND STORAGE

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### **Precautions for safe handling**

No direct lighting. No smoking. Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety procedures.

### **Conditions for safe storage, including any incompatibilities**

Use original packaging. Avoid already used packaging. It is recommended to keep the product in a water-tight and air-tight container, in a dry, cool ( $\leq 15^{\circ}\text{C}$ ), and ventilated area.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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### **Exposure controls**

Individual protection of the respiratory tract is necessary in stuffy or confined working areas. The protection of hands and eyes by wearing gloves and glasses is recommended wear overalls.

### **Eyes**

Use tightly sealed goggles.

### **Skin**

If skin contact or contamination of clothing is likely, protective clothing should be worn. Use protective gloves.

### **Respiratory**

In case of insufficient ventilation, wear suitable respiratory equipment.

### **Ingestion**

Not for ingestion.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	:	Pale yellow to greenish yellow liquid.
Odor	:	Characteristic minty, rosy-like odor.
Flash point	:	91°C
Relative density	:	0.880 to 0.899 @ 20 °C
Solubility (ies)	:	Soluble in alcohol and oils. Insoluble in water.
Refractive index	:	1.461 to 1.475 @ 20°C
Optical rotation	:	-30 to -7° @ 20°C

## 10. STABILITY AND REACTIVITY

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### Reactivity

This material presents no significant reactivity hazard.

### Chemical stability

Chemically stable.

### Possibility of hazardous reactions

Hazardous polymerization will not occur.

### Conditions to avoid

Avoid sparks, flame and other heat sources.

### Incompatible materials

Strong oxidizing agents.

### Hazardous decomposition products

Carbon Oxides.

## 11. TOXICOLOGICAL INFORMATION

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### Acute toxicity

Not available.

### Inhalation

Inhalation of high concentrations of vapor may result in irritation of eyes, nose and throat, headache, nausea, and dizziness.

### Skin contact

Adverse skin effects should be prevented by normal care and personal hygiene.

### Eye contact

Possible irritation should be prevented by wearing safety glasses.

## 12. ECOLOGICAL INFORMATION

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### Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects environment. Prevent contamination of soil, surface and ground water.

## 13. DISPOSAL CONSIDERATION

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Dispose of product in accordance with local, state or provincial and federal regulations. Check with local municipal authority to ensure compliance.

## 14. TRANSPORT INFORMATION

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### **US DOT Shipping Description (Land)**

Not regulated

### **IMO-IMDG Shipping Description (Sea)**

Not regulated

### **IATA Shipping Description (Air)**

Not regulated

## 15. REGULATORY INFORMATION

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### **California Proposition 65**

- This product can expose you to beta-Myrcene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### **GHS Hazard Statements**

Please refer to section 2.

### **GHS Precautionary Statements**

Please refer to section 2.

## 16. OTHER INFORMATION

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This information is provided for documentation purposes only. The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary

# ASES CHEMICAL WORKS

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## CERTIFICATE OF ANALYSIS

1. Name of the Product	Geranium Essential Oil
2. INCI Name	Pelargonium Graveolens Flower Oil
3. CAS No	8000-46-2
4. Mfg. Date	As on Label 2023
5. Date Of Exp	As mentioned on Label
6. Date of Analysis	01-08-2023

Properties	Specifications	Results
Appearance	: Pale yellow to greenish yellow liquid.	Complies
Odor	: Characteristic minty, rosy-like odor.	Complies
Solubility	: Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity	: 0.885 to 0.905@ 20°C	0.893
Optical Rotation	: -14.0° to -8.0° @ 20°C	-10
Refractive Index	: 1.461 to 1.475 @ 20°C	1.464
Citronellol	: 25 to 36 %	34.27
Linalool	: 4 to 8.5 %	4.17
Geraniol	: 10 to 18 %	14.24

Storage: Store in air tight containers; in a cool dry area; away from direct sunlight

The Result relates to the sample tested in the Laboratory. Limits/Standard values are given only for interpretation of results. This test refers only to practice items(s) submitted for testing. The Test Results reported in this report are valid at the time and under the stated conditions of testing.