





Safety Data Sheet

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

1.1 Product Identifier					
Product Name		Rose Geranium Oil			
Biological Definition		Pelargonium Graveolens Flower Oil is the volatile oil obtained from the flowers of the Geranium, Pelargonium graveolens (L.), Geraniaceae.			
INCI Name		Pelargonium Graveolens Flower Oil			
Synonyms & Trade Names		Geranium Rosat oil.			
CAS-No	90082-51-2 / 8000-46-2	EC No.	290-140-0	EINECS No.	290-140-0
1.2 Relative identified uses of the substance or mixture and uses advised against					
Recommended use: Fragrance Industry.					
1.3 Details of the supplier of the safety data sheet					
Golden Bough Botanicals Inc 12-1585 Cliveden Ave Delta BC V3M 6M1					
1.4 Emergency Tel. No.		604-540-8700 (Monday-Friday 8:30 am-4:30 pm)			

02. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
The full text for all hazard statements is displayed in Section 16.	
Classification (EC 1272/2008)	
<u>Physical Hazard</u> This mixture does not present a physical hazard. <u>Human Health</u> Skin irritation, Category 2 (Skin Irrit. 2, H315). Serious eye damage, Category 1 (Eye Dam. 1, H318). Skin sensitisation, Category 1 (Skin Sens. 1, H317). <u>Environment</u> Harmful to aquatic life with long lasting effects.	
2.2 Label Elements	
Label in accordance with (EC) No 1272/2008	
GHS05 	GHS07 
Signal Word	Danger.
Contains	Geraniol.
Hazard Statements	

<p>H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H412 Harmful to aquatic life with long lasting effects.</p>	
<p>Precautionary Statements</p>	
<p>P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor. P501 Dispose of contents in accordance with local, state or national legislation P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing. And wash it before reuse. P302+P352 IF ON SKIN: Wash with plenty of water. P273 Avoid release to the environment.</p>	
<p>Supplementary Precautionary Statements</p>	
<p>P264 Wash hands and exposed skin thoroughly after handling. P332+P313 If skin irritation occurs: Get medical advice/attention.</p>	
<p>2.3 Other Hazards</p>	
PBT or vPvB according to Annex XIII	The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.
Adverse physio-chemical properties	The mixture does not contain any substances classified as 'Substances of Very High Concern' (SVHC) by the European Chemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table
Adverse effects on human health	No additional data available.

03. COMPOSITION/INFORMATION ON INGREDIENTS

<p>3.2 Mixtures</p>		
39.61% Citronellol	CAS-No: 106-22-9	EC No: 203-375-0
Classification (EC 1272/2008)	Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Eye Irrit. 2 – H319	
19.18% Geraniol	CAS-No: 106-24-1	EC No: 203-377-1
Classification (EC 1272/2008)	Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Eye Dam. 1 - H318	
11.0% Linalool	CAS-No: 78-70-6	EC No: 201-134-4
Classification (EC 1272/2008)	Skin Irrit. 2 - H315	
4.32% Menthone	CAS-No: 89-80-5	EC No: 201-941-1
Classification (EC 1272/2008)	Flam. Liq. 3 - H226, Aquatic Chronic 3 - H412	
4.10% Geranyl Acetate	CAS-No: 105-87-3	EC No: 203-341-5
Classification (EC 1272/2008)	Skin Irrit. 2 – H315, Skin Sens. 1 – H317, Aquatic Chronic 3 – H412	
1.55% Terpineol	CAS-No: 8000-41-7	EC No: 232-268-1

Classification (EC 1272/2008)	Skin Irrit. 2 - H315, Eye Irrit. 2 - H319	
0.48% Menthol	CAS-No: 89-78-1	EC No: 201-939-0
Classification (EC 1272/2008)	Skin Irrit. 2 - H315, Eye Irrit. 2 - H319	
0.2% Limonene	CAS-No: 5989-27-5	EC No: 227-813-5
Classification (EC 1272/2008)	Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Asp. Tox. 1 – H304, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410	
0.42% beta - Pinene	CAS-No: 127-91-3	EC No: 204-872-5
Classification (EC 1272/2008)	Flam. Liq. 3 - H226, Asp. Tox. 1 - H304, Skin Sens. 1 - H317, Skin Irrit. 2 – H315 - Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410	
1.0% Citral	CAS No: 5392-40-5	EC No: 226-394-6
Classification (EC 1272/2008)	Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Eye Irrit. 2 – H319	
0.40% alpha - Pinene	CAS No: 80-56-8	EC No: 201-291-9
Classification (EC 1272/2008)	Flam. Liq. 3 - H226, Skin Sens. 1 - H317, Asp. Tox. 1 - H304, Skin Irrit. 2 – H315, Aquatic Acute 1 - H400, , Aquatic Chronic 1 - H410	
0.05% 1,4-Cineole	CAS No: 470-67-7	EC No: 207-428-9
Classification (EC 1272/2008)	Flam. Liq. 3 - H226	
0.05% Menthofuran	CAS No: 494-90-6	EC No: 207-795-5
Classification (EC 1272/2008)	Acute Tox. 4 - H302, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319 Aquatic Chronic 2 - H411	
0.05% Menthyl Acetate	CAS No: 89-48-5	EC No: 201-911-8
Classification (EC 1272/2008)	Aquatic Chronic 2 - H411	
0.02% Beta Caryophyllene	CAS No:87-44-5	EC No: 201-746-1
Classification (EC 1272/2008)	Asp. Tox. 1 - H304	
0.02% Pulegone	CAS No: 15932-80-6	EC No: 240-070-1
Classification (EC 1272/2008)	Acute Tox. 4 - H302	

04. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Remove to source of fresh air. If symptoms persist, seek medical advice.
Ingestion	Do not give the patient anything orally. In the event of swallowing, if the quantity is small (no

	more than one mouthful), rinse the mouth with water and consult a doctor. Seek medical attention immediately, showing the label.
Skin Contact	Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner. Watch out for any remaining product between skin and clothing, watches, shoes, etc. In the event of an allergic reaction, seek medical attention. If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.
Eye Contact	Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open. Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.
4.2 Most important symptoms and effects, both acute and delayed	
No additional data available.	
4.3 Indication of any immediate medical attention and special treatment needed	
No additional data available.	

05. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media	
Extinguish with the following media: Foam, carbon dioxide or dry powder. In the event of a fire, do not use: water	
5.2 Special hazards arising from the product	
A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke. In the event of a fire, the following may be formed: carbon monoxide (CO) & carbon dioxide (CO ₂)	
5.3 Advice for firefighters	
No additional data available.	

06. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	
Consult the safety measures listed under headings 7 and 8. For non first aid worker Avoid any contact with the skin and eyes. For first aid worker First aid workers will be equipped with suitable personal protective equipment (See section 8).	
6.2 Environmental Precautions	
Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal. Do not discharge into drains, water courses or onto the ground.	
6.3 Methods and material for containment and cleaning up.	
Cover liquid spill with sand, earth or other non-combustible absorbent material. Sweep up and shovel into suitable containers for disposal. Clean preferably with a detergent, do not use solvents.	
6.4 Reference to other sections	
No additional data available.	

07. HANDLING AND STORAGE

7.1 Precautions for safe handling	
Requirements relating to storage premises apply to all facilities where the mixture is handled. Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture. Precautions for safe handling	

Always wash hands after handling.
 Remove and wash contaminated clothing before re-using.
 Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

Fire prevention

Prevent access by unauthorised personnel.

Recommended equipment and procedures

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulationS. Avoid eye contact with this mixture at all times.

Prohibited equipment and procedures

No smoking, eating or drinking in areas where the mixture is used.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Always keep in packaging made of an identical material to the original.

7.3 Specific end use(s)

No additional data available.

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

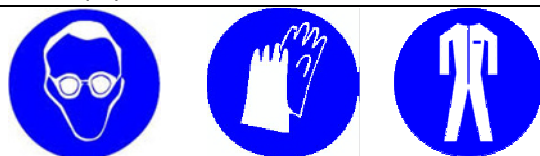
Occupational exposure limits:

ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA	STEL	Ceiling	Definition	Criteria
80-56-8	20 ppm	-	-	-	-

8.2 Exposure controls

Protective Equipment



Process Conditions	Use personal protective equipment that is clean and has been properly maintained. Store personal protective equipment in a clean place, away from the work area. Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.
Engineering Measures	Ensure adequate ventilation, especially in confined areas.
Respiratory Equipment	Ensure adequate ventilation, especially in confined areas.
Hand Protection	Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374. Gloves must be selected according to the application and duration of use at the workstation. Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required. Recommended properties: Impervious gloves in accordance with standard EN374
Eye Protection	Avoid contact with eyes. Use eye protectors designed to protect against liquid splashes. Before handling, wear safety goggles with protective sides accordance with standard EN166. In the event of high danger, protect the face with a face shield. Prescription glasses are not considered as protection. Individuals wearing contact

	lenses should wear prescription glasses during work where they may be exposed to irritant vapours. Provide eyewash stations in facilities where the product is handled constantly.
Other Protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene Measures	Good personal hygiene practices are always advisable, especially when working with chemicals / oils.
Personal Protection	Avoid inhalation and contact with skin and eyes.
Skin Protection	Avoid skin contact. Wear suitable protective clothing. Suitable type of protective clothing : In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact. In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact. Work clothing worn by personnel shall be laundered regularly. After contact with the product, all parts of the body that have been soiled must be washed.
Environmental Exposure Controls	Avoid discharging into drainage water. Only eliminate by authorised companies.

09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Clear liquid, pale yellow to greenish yellow.
Colour	Pale yellow to greenish yellow.
Odour	Characteristic
Relative Density	Approx. 0.885 @ 20°C
Flash Point (°C)	> 86.0
Refractive Index	Approx. 1.465 @ 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 alcohol.
Auto-ignition temperature (°C)	No additional data available.

9.2 Other information

No additional data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No additional data available.

10.2 Chemical stability

Stable under the recommended handling and storage conditions.

10.3 Possible hazardous reactions

No additional data available.

10.4 Conditions to Avoid

Avoid humidity.

10.5 Incompatible materials

Keep away from water.

10.6 Hazardous Decomposition Products

The thermal decomposition may release/form: carbon monoxide (CO) and carbon dioxide (CO₂)

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity	No additional data available.
Skin corrosion / irritation	May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours. May cause an allergic reaction by skin contact.
Serious eye damage / irritation	May have irreversible effects on the eyes, such as tissue damage in the eye, or serious physical decay of sight, which is not fully reversible by the end of observation at 21 days. Serious eye damage is typified by the destruction of cornea, persistent corneal opacity and iritis.
Respiratory or skin sensitisation	No additional data available.
Germ Cell Mutagenicity	No additional data available.
Carcinogenicity	CAS 5989-27-5 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.
Reproductive toxicity	No additional data available.
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

Harmful to aquatic life with long lasting effects.
The product must not be allowed to run into drains or waterways.
No aquatic toxicity data available for the substances.

12.2 Persistence & degradability

No additional data available.

12.3 Bioaccumulation Potential

No additional data available.

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

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.
Waste treatment methods
Do not pour into drains or waterways.

Waste:

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals. Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company. Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging:

Empty container completely. Keep label(s) on container. Give to a certified disposal contractor.

14. TRANSPORT INFORMATION

14.1 UN number	
UN No. Road	Not regulated.
UN No. SEA	Not regulated.
UN No. AIR	Not regulated.
14.2 UN proper shipping name	
None.	
14.3 Transport hazard class(es)	
None.	
14.4 Packing group	
None.	
14.5 Environmental hazards	
Not regulated.	
14.6 Special precautions for user	
No additional data available.	
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code	
No additional data available.	

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
<u>Statutory Instruments</u> The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). <u>Guidance Notes</u> Workplace Exposure Limits EH40. CHIP for everyone HSG(108). <u>EU Legislation</u> Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.	
15.2 Chemical safety assessment	
No additional information available.	

16. OTHER INFORMATION

Hazard and/or Precautionary Statements in Full	H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation.
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	H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.
Other Information	None.
Revision Date	August 9, 2016
Reason for revision	New SDS.
Rev No/Repl, SDS Generated	01

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