vessel
essential oils

TECHNICAL DATA SHEET

Greek Rose Organic Essential Oil

PRODUCT DESCRIPTION	PHYSICO-CHEMICAL DATA
Botanical name : Rosa damascena INCI name : Rosa damascena flower oil Quality : 100% Pure and Natural	Specific gravity : 0.848-0.880 Refractive index : 1.450-1.470 Optical rotation at 20°C : 16° to 23° Flash point : >81°C Solubility : Soluble in alcohols and fixed oils; **Insoluble in water**

DESCRIPTION	MANUFACTURING DETAILS
Odour : Sweet, Light, Fresh Note classification : Top to middle Note Appearance : Clear, Mobile Liquid Colour : Colorless	Flower oil parts used : Flower petals Extraction Method : Steam Distilled Essential Oil Cultivation : Certified organic

LEGISLATION	STABILITY AND STORAGE
CAS-No : 8007-01-0 EINECS : 290-260-3	Keep in tightly closed container in a cool and dry place from 15°C (59°F) to 22°C (71°F). Avoid exposure to light. When stored for more than 24 months, quality should be checked before use.

MSDS Rose Oil

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Rose Oil

Brand : Vessel Essential Oils

CAS-No. : 8007-01-0

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

1.4 Company : Vessel Essential Oils
1.5 Farmakeika Neo Risio

1.6 Telephone : +30 2310 463719
1.7 Fax :
1.8 E-mail address : info@vessel.gr

1.9 Emergency telephone number

Emergency Phone # : +30 2310 463719

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 4), H227

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram: none

Signal word: Warning

Hazard statement(s)
H227: Combustible liquid.

Precautionary statement(s)
P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.
P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P235: Store in a well-ventilated place. Keep cool.
P501: Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

CAS-No. : 8007-01-0

Hazardous components

Component	Classification	Concentration
Oils, rose		
	Flam. Liq. 4; H227	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in

container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Oils, rose	8007-01-0	TWA	10.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	5.000000 mg/m3	USA. NIOSH Recommended Exposure Limits

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: clear, liquid
b)	Odour	Characteristic
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	>81 °C (>177.8 °F)
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	0.865 g/cm3 at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n- octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
No data available

10.6 Hazardous decomposition products
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat – 3,500 mg/kg

Inhalation: No data available

LD50 Dermal - Rabbit - > 2,500 mg/kg

Skin corrosion/irritation

Skin - Rabbit
Result: Mild skin irritation

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information

Dermatitis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity
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
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

UN Number: N/A

UN Proper shipping name: N/A

Transportation hazard classes

Road (U.S. DOT): Not dangerous goods
Air (IATA): Not dangerous goods
Sea (IMDG): Not dangerous goods

Packing group: N/A

Proper shipping name: Not regulated

Poison Inhalation Hazard: No

Class: NONE

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Fire Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Oils, rose	8007-01-0	2018-08-11

New Jersey Right To Know Components

		Revision Date
Oils, rose	CAS-No. 8007-01-0	2018-08-11

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Flam. Liq.	Flammable liquids
H227	Combustible liquid.

HMIS Rating

Health hazard:	1
Chronic Health Hazard:	
Flammability:	2
Physical Hazard	0

NFPA Rating

Health hazard:	0
Fire Hazard:	2

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Vessel Essential Oils and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

12/10/2023

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DATE: May 2023

PRODUCT DESCRIPTION

Product name :	Rose Essential Oil
Product Type :	Essential oil
Label Name :	Greek Rose Organic Essential Oil
BATCH No :	E1001400
Date of Production :	May 2023
Date of Expiration :	May 2028
Origin :	Greece

TECHNICAL INFORMATION

Organoleptic	Result
Aroma :	Conforms to standard
Appearance :	Conforms to standard
Color :	Conforms to standard

PHYSICAL CONSTANTS AT 20^{O} C

Analysis	Method	Result
Refractive Index :	USP <831>	1.440
Specific Gravity :	USP<841>	0.880
Optical Rotation :	USP <781>	+21.98^{o}

ANALYSIS METHOD :

Gas chromatography (GC/FID) area % according to normalization method.

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GC ANALYSIS

Compounds	CAS No	%	Chemical Family
Pentadecane	629-62-9	0.50	Sesquiterpene
Linalool	78-70-6	1.15	Monoterpenic Alcohol
Alpha-Guaiene	3691-12-1	0.40	Sesquiterpene
Trans-Beta Caryophyllene + Terpinen-4-ol	87-44-5/ 562-74-3	0.66	Sesquiterpene
Citronellyl Acetate	150-84-5	1.05	Monoterpenic Ester
Alpha-Humulene	6753-98-6	0.30	Sesquiterpene
Isoneral	106-26-3	0.38	Monoterpenic Aldehyde
Heptadecane	629-78-7	2.40	Hydrocarbon
Germacrene D	23986-74-5	0.74	Sesquiterpene
Beta-Selinene	17066-67-0	0.40	Sesquiterpene
Neryl Acetate	141-12-8	0.50	Monoterpenic Ester
Geranyl Acetate	105-87-3	1.70	Monoterpenic Ester
Citronellol	106-22-9	33.14	Monoterpenic Alcohol
Hexadecane	544-76-3	0.29	Hydrocarbon
Nerol	106-25-2	4.57	Monoterpenic Alcohol
Geraniol	106-24-1	8.20	Monoterpenic Alcohol
Nonadecane	629-92-5	17.10	Hydrocarbon
9-Nonadecene + Phenethyl Alcohol	31035-07-1/ 60-12-8	5.50	-
Eicosane	112-95-8	1.40	Diterpene
Methyl Eugenol	93-15-2	0.69	Phenylpropanoid
Heneicosane	629-94-7	6.30	Hydrocarbon
Alcane c-23	-	1.40	Hydrocarbon
(Z,Z)-Farnesol	4602-84-0	0.53	Sesquiterpenic Alcohol
(E,E)-Farnesol	106-28-5	3.10	Sesquiterpenic Alcohol