

SAFETY DATA SHEET

SECTION 1: PRODUCT / SUBSTANCE IDENTIFICATION

1.1	PRODUCT IDENTIFIER	:	Geranium Essential Oil
	CHEMICAL NAME	:	<i>Pelargonium graveolens</i>
	CAS NUMBER	:	8000-46-2
	EC NUMBER	:	290-140-0

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE

IDENTIFIED USES

Industrial uses. Formulation [mixing] of preparations. Do not ingest as such.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

SUPPLIER	:	Brooklyn Botany
ADDRESS	:	6569 Pond Apple Rd. Boca Raton, FL 33433
TELEPHONE NUMBER	:	914-940-5947

1.4 EMERGENCY TELEPHONE NUMBER

24 HOUR EMERGENCY TELEPHONE NUMBER

USA National Poison Control Center (any day/time) 1 (412) 681-6669.

SECTION 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

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

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

2.2 LABEL ELEMENTS

PICTOGRAM



SIGNAL WORD

:

Warning

HAZARD STATEMENTS

H227

:

Combustible liquid

H315

:

Causes skin irritation

H319

:

Causes serious eye irritation.

PRECAUTIONARY STATEMENTS

P210

:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P264

:

Wash skin thoroughly after handling.

P280

:

Wear protective gloves/ protective clothing/ eye protection/ face protection.

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.
P321	:	Specific treatment (see supplemental first aid instructions on this label).
P332 + P313	:	If skin irritation occurs: Get medical advice/ attention
P337 + P313	:	If eye irritation persists: Get medical advice/ attention
P362	:	Take off contaminated clothing and wash before reuse.
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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

CAS-NO	:	8000-46-2
EC-NO	:	290-140-0

HAZARD COMPONENTS

COMPONENT	CLASSIFICATION	CONCENTRATION
GERANIUM OIL		
	Flam. Liq. 4; Skin Irrit. 2; Eye Irrit. 2A; H227, H315, H319	100 %

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

SECTION: 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

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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 SYMPTOM 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

Not available.

SECTION 5: FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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.

SECTION 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 THE OTHER SECTIONS

For disposal see section 13

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Avoid contact with skin and eyes. 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.

Recommended storage temperature 2 - 8 °C

7.3 SPECIFIC END USE(S)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

COMPONENT	CAS-NO.	VALUE	CONTROL PARAMETERS	BASIS
Geranium oil	8000-46-2	TWA	10.000000 mg/m ³	USA. NIOSH Recommended Exposure Limits
		TWA	5.000000 mg/m ³	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

Face shield and safety glasses 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

Complete suit protecting against chemicals, 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

- | | | | |
|-----------|--|---|------------------------|
| a) | APPEARANCE | | |
| | FORM | : | LIQUID |
| | COLOR | : | YELLOW |
| b) | ODOUR | : | No data available |
| 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 | : | 197 °C (387 °F) – lit. |

g)	FLASH POINT	:	64 °C (147 °F) - closed cup
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	:	0.887 g/cm ³ 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.

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

Not available

10.2 CHEMICAL STABILITY

Stable under normal operating conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Not available

10.4 CONDITIONS TO AVOID

Heat, flames, and sparks.

10.5 INCOMPATIBLE MATERIALS

Strong oxidizing agents

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: TOXILIGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY

No data available

INHALATION

No data available

DERMAL

No data available

SKIN IRRITATION/CORROSION

Skin – Rabbit

SERIOUS EYE IRRITATION/DAMAGE

No data available

RESPIRATORY OR SKIN SENSITIZATION

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

STOT-SINGLE EXPOSURE

Inhalation - May cause respiratory irritation.

STOT-REPEATED EXPOSURE

No data available

ASPIRATION HAZARD

No data available

ADDITIONAL INFORMATION

RTECS: Not available

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

SECTION 12: ECOLOGICAL INFORMATION

- 12.1 TOXICITY** : Not determined
- 12.2 PERSISTENCE AND DEGRADABILITY** : Not available

- 12.3 BIOACCUMULATIVE POTENTIAL** : Not determined
- 12.4 MOBILITY IN SOIL** : N/A
- 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** : Not determined

SECTION 13: DISPOSAL CONSIDERATION

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. Contact a licensed professional waste disposal service to dispose of this material.

CONTAMINATED PACKAGING

Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

- DOT (US)** : Not dangerous goods
- IMDG** : Not dangerous goods
- IATA** : Not dangerous goods

SECTION 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, Acute Health Hazard

MASSACHUSETTS RIGHT TO KNOW COMPONENTS

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

PENNSYLVANIA RIGHT TO KNOW COMPONENTS

GERANIUM OIL CAS-No. 8000-46-2 REVISION DATE 1989-08-11

NEW JERSEY RIGHT TO KNOW COMPONENTS

GERANIUM OIL CAS-No. 8000-46-2 REVISION DATE 1989-08-11

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.

SECTION 16: OTHER INFORMATION

FULL TEXT OF H-STATEMENTS REFERRED TO UNDER SECTIONS 2 AND 3.

EYE IRIT.	:	Eye irritation
FLAM. LIQ.	:	Flammable liquids
H227	:	Combustible liquid.
H315	:	Causes skin irritation.
H319	:	Causes serious eye irritation.
SKIN IRIT.	:	Skin irritation.

HMIS RATING

HEALTH HAZARD	:	2
CHRONIC HEALTH HAZARD	:	
FLAMMABILITY	:	2
PHYSICAL HAZARD	:	0

NFPA RATING

HEALTH HAZARD	:	2
FIRE HAZARD	:	2
REACTIVITY HAZARD	:	0

FURTHER INFORMATION

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and our company assumes no liability resulting from the use of this SDS. This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment and must determine suitability of this information for his application.