Lemongrass essential oil

Safety Data Sheet

SECTION 1: Identification

1.1. Identification

Product form : Substance
Substance name : Lemongrass oil
CAS No : 89998-14-1

1.2. Recommended use and restrictions on use

Recommended use : Raw material for the manufacture of fragrances and/orflavourings.

1.3. Supplier

Camden-Grey Essential Oils, Inc. 5751 Halifax Ave.,Unit 2 Fort Myers, FL 33912 www.camdengrey.com

1.4. Emergency telephone number

Emergency number : Chemtrec -1.800.424.9300/ 1.703.527.3887 CCN330

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin Irritant - Category 2 - H315

Serious eye damage - Category 1 - H318 Skin

sensitizer -Category 1 A - H317

Hazardous to the aquatic environment, long - term (chronic) -Category 2 - H411

2.2. GHS Label elements, including precautionary statements

GHS-US labelling

Hazard pictograms (GHS-US)



GHS05

GHS07



Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : Combustible liquid

Causes skin irritation

May cause an allergic skin rea

May cause an allergic skin reaction Causes serious eye damage

Toxic to aquatic life

Toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US)

Avoid breathing dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye

protection/face protection.

If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical

advice/attention

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing

Immediately call a poison center/doctor.

Suplemental Hazard Information Contains CITRAL, CITRONELLAL, CITRONELLOL ,D-LIMONENE, GERANYLACETATE,

ISOEUGENOL, LINALOOL, NEROL. May produce an allergic reaction.

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Other hazards which do not result in classification

No additional information available

SECTION 3: Composition/information on ingredients

Substance

Name : Lemongrass Oil CAS No 89998-14-1 EC number 289-752-02

Name	Product identifier	%	GHS-US classification
CITRAL	5392-40-5 223-394-6	≥50	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B-H317
D-LIMONENE	5989-27-5 227-813-5	≥1;<10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
GERANIOL	106-70-6 203-377-1	≥1;<10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B-H317
LINALOOL	78-70-6 201-134-4	≥1;<10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B-H317
GERANYL ACETATE	105-87-3 203-341-5	≥1;<10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
NEROL	106-22-9 203-378-7	≥0.1;<1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B-H317
CITRONELLOL	106-22-9 203-375-0	≥0.1;<1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B-H317
CITRONELLAL	106-23-0 203-376-6	≥0.1;<1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B-H317
CHAMPHENE	79-92-5 201-234-8	≥0.1;<1	Flam. Sol. H228 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ISOEUGENOL	97-54-1 202-590-7	≥0.1;<1	Acute Tox. 4 (oral) H302 Acute Tox. 4 (dermal) H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B-H317

See the full text of the hazard statements in section 16

Mixture

Not applicable

SECTION 4: First-aid measures

Description of first aid measures

: Rinsemouth with water. Ingestion

Obtain medical advice.

Keep at rest. Don't induce vomiting

Eye contact : In case of contact with eyes, rinse immediate y with plenty of water for at least 15 minutes and seek medical advice.

Inhalation Remove person to fresh air and keep at rest.

Seek immediate medical advice.

Skin contact Take off immediately all contaminated clothing.

 $Thoroughly\,wash\,affected\,skin\,\,with\,soap\,and\,water.$

Seek medical attention if symptoms persist.

Most important symptoms and effects (acute and delayed) 4.2.

No additional information available

Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. **Extinguishing media**

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Water spray, carbon dioxide, dry chemical powder or appropriate foam.

For safety reasons do not use full water jet.

5.2. Specific hazards arising from the substance or mixture

Known or Anticipated Hazardous Products of Combustion: Emits toxic fumes under fire conditions.

5.3. Advice for firefighters

High temperatures can lead to high pressures inside closed containers.

Avoid inhalation of vapors that are created. Use appropriate respiratory protection.

Do not allow spillage of fire to be poured into drains or watercourses.

Wear self-contained breathing apparatus and protective clothing

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate surrounding areas. Ensure adequate ventilation. Keep unnecessary and unprotected personnel from entering.

Do not breathe vapor/spray. Avoid contact with skin and eyes. hformation regarding personal protective measures: see section 8.

6.2. Environmental precautions

To avoid possible contamination of the environment, do not discharge into any drains, surface waters or groundwaters.

6.3. Methods and material for containment and cleaning up

Cover with an Inert, inorganic, non-combustible absorbent material (e.g. dry- lime, sand, soda ash).

Place in covered containers using non-sparking tools and transport outdoors.

Avoid open flames or sources of ignition (e.g.pilot lights on gas hot water heater).

Ventilate area and wash spill site after material pickup is complete.

6.4. Reference to other sections

Information regarding exposure controls, personal protection and disposal considerations can be found in sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not store or handle this material near food or drinking water. Do not smoke.

Avoid contact with the eyes, skin and clothing. Wear protective clothing and use glasses.

Observe the rules of safety and hygiene at work.

Keep in the original container or an alternative made from a compatible material.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed and preferably full containers in a cool, dry and ventilated area, protected from light.

Keep away from sources of ignition (e.g. hot surfaces, sparks, flame and static discharges).

Keep away from incompatible materials (see section 10).

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components with occupational exposure limits:

Chemical Name	CASNo	Norm.	8 hr.		15 min.			
				ppm	mg/m ²		ppm	mg/m ²
CITRAL	5392-40-5	ES (Espana) 1	VLA-ED	5		VLA-EC		
		PL (Polska)	NDS		27	NDSCh		54

¹Possibility of significant uptake though the skin.

8.2. Appropriate engineering controls

Appropriate engineering controls Measures should betaken to prevent materials from being splashed into the body.

Provide adequate ventilation, according to the conditions of use. Use a mechanical exhaust if required.

Eye/Face protection: Hand Chemical safety goggles are recommended. Wash contaminated goggles before reuse.

Protection Chemical-resistant & loves are recommended. Wash contaminated gloves before reuse.

Body protection Personal protective equipment for the body should be selected based on the task being performed and the

risks involved.

Respiratory Protection In case of insufficient ventilation, use suitable respiratory equipment.

Environmental exposure controls Emissions from ventilation or process equipment should be checked to ensure they comply with

environmental protection legislation.

In some cases, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : Conforms to standard
Odour : Conforms to standard
Odour threshold : Not determined
pH : Not determined
Melting point / Freezing point : Not determined
Boiling point : Not determined

Flash point : 71 °C

Evaporation rate : Not determined
Flammability : Not determined
Vapour pressure : 0.05 mm Hg (20°C)
Vapour density : Not determined

Density : 0.868 - 0.898 g/ml (20°C) Relative density 0.868 - 0.898 (20°C) Water solubility 1;10 v/v Ethanol 90% Solubility in other solvents Soluble in Ethanol Partition coefficient n-octanol/water Not determined Auto-ignition temperature Not determined Not determined Decomposition temperature : Not determined Viscosity, kinematic Viscosity, dynamic : Not determined Explosive properties Not determined Oxidizing properties : Not determined

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated

10.4. Conditions to avoid

 $Conditions \, to \, Avoid: \, Excessive \, heat, flame \, or \, other \, ignition \, sources.$

10.5. Incompatible materials

Avoid contact with strong acids and bases and oxidizin& agents.

10.6. Hazardous decomposition products

During combustion may form carbon monoxide and unidentified organic compounds

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Based on the data available, the criteria for classification are not met.

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Based on the data available, the criteria for classification are not met.

Carcinogenicity : Based on the data available, the criteria for classification are not met.

Reproductive toxicity : Based on the data available, the criteria for classification are not met.

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Specific target organ toxicity (single exposure)

: Based on the data available, the criteria for classification are not met.

Specific target organ toxicity (repeated

exposure)

: Based on the data available, the criteria for classification are not met.

Aspiration hazard : Based on the data available, the criteria for classification are not met.

SECTION 12: Ecological information

Toxicity 12.1.

Assessment:

Toxic to aquatic life with long lasting effects.

Experimental / calculated data:

No information available.

12.2. Persistence and degradability

No additional information available

Bioaccumulative potential 12.3.

No additional information available

12.4. **Mobility in soil**

No additional information available

Results of PBT and vPvB assessment

No additional information available

Other adverse effects

See also sections 6, 7, 13 and 15

Do not allow to get into waste water or waterways.

SECTION 13: Disposal considerations

Waste treatment methods

Dispose of in accordance with national and local environmental regulations.

SECTION 14: Transport information

	ADR/RID/ADN	IMDG	IATA-ICAO
14.1. UN Number	UN3082	UN3082	UN3082
14.2. UN Proper Shipping Name	Environmentally hazardous	Environmentally hazardous	Environmentally hazardous
	substance, liquid, N.O.S.	substance, liquid, N.O.S.	substance, liquid, N.O.S.
	(Lemongrass oil)	(Lemongrass oil)	(Lemongrass oil)
14.3. Transport Hazard Class (es)	9	9	9
14.4. Packing Group	III	III	III
14.5. Environmental hazards	Yes	Yes	Yes
Additional information			

14.6. Special precautions for user

None Known

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

No information available

15.2. **Chemical safety assessment**

No information available

SECTION 16: Other information

Full text of the R-phrases, hazard statements and precautionary statements mentioned in section 3:

H226 - Flammable liquid and vapour.

H228 - Flammable solid.

H302 - Harmful if swallowed.

H304 - May be fatal if swallowed and enters airways.

H312 - Harmful in contact with skin.

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- H315 Causes skin irritation.
- 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.
- H412 Harmful to aquatic life with long lasting effects.

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