

According to 29 CFR 1910.1200

Revision date October 2015

SECTION 1: Identification

1.1. Identification

Product Name: HE GINGEMBRE CHINE / GINGER OIL CHINA
Product code: GIN100235.

1.2. Recommended use and restrictions on use

Recommended Use: INDUSTRIAL USE ONLY PERFUMERY, COSMETIC, FOOD

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

In compliance with EC regulation No. 1272/2008 and its amendments.
Skin irritation, Category 2 (Skin Irrit. 2, H315). Eye irritation, Category 2 (Eye Irrit. 2, H319).
Skin sensitisation, Category 1B (Skin Sens. 1B, H317). Aspiration hazard, Category 1 (Asp. Tox. 1, H304).
Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).
This substance does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



Signal Word :

DANGER

Product identifiers :

EC 207-948-6	ALPHA-FARNESENE
EC 201-291-9	ALPHA-PINENE X
EC 205-476-5	GERANIAL
EC 205-476-5	GERANIAL
EC 207-431-5	EUCALYPTOL
EC 205-341-0	DL-LIMONENE (RACEMIC)
EC 203-377-1	GERANIOL
EC 209-578-0	TERPINOLENE

Hazard statements :

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting

effects. Precautionary statements - Prevention :

P261 Avoid breathing

dust/fume/gas/mist/vapours/spray. Precautionary statements - Response :

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P301 + P310 IF SWALLOWED: Immediately call a POISON
 CENTER/doctor/... P302 + P352 IF ON SKIN: Wash with plenty of 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.
 Precautionary statements - Disposal :
 P501 Dispose of contents/container with local regulations

2.3. Other hazards

The substance does not satisfy the PBT or vPvP criteria in accordance with annexe XIII of the REACH regulations EC 1907/2006

SECTION 3: Composition/information on ingredients

3.1. Composition :

Identification	(EC) 1272/2008	Note	%
INDEX: I79_92_5 CAS: 79-92-5 EC: 201-234-8 CAMPHENE	GHS02, GHS07, GHS09 Wng Eye Irrit. 2, H319 Flam. Sol. 2, H228 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1		2.5 <= x % < 10
INDEX: I502_61_4 CAS: 502-61-4 EC: 207-948-6 ALPHA-FARNESENE			2.5 <= x % < 10
INDEX: I80_56_8 CAS: 80-56-8 EC: 201-291-9 ALPHA-PINENE X	GHS08, GHS02, GHS07 Dgr Asp. Tox. 1, H304 Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317	[1]	2.5 <= x % < 10
INDEX: I141_27_5 CAS: 141-27-5 EC: 205-476-5 GERANIAL	GHS07 Wng Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1B, H317		1 <= x % < 2.5
INDEX: I470_82_6 CAS: 470-82-6 EC: 207-431-5 EUCALYPTOL	GHS02, GHS07 Wng Flam. Liq. 3, H226 Skin Sens. 1B, H317		1 <= x % < 2.5
INDEX: I601029007 CAS: 138-86-3 EC: 205-341-0 DL-LIMONENE (RACEMIC)	GHS08, GHS02, GHS07, GHS09 Dgr Asp. Tox. 1, H304 Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1		0 <= x % < 1
INDEX: I106_24_1 CAS: 106-24-1 EC: 203-377-1 GERANIOL	GHS05, GHS07 Dgr Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318		0 <= x % < 1

INDEX: I586_62_9 CAS: 586-62-9 EC: 209-578-0 TERPINOLENE	GHS08, GHS07, GHS09 Dgr Asp. Tox. 1, H304 Skin Sens. 1B, H317 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1		0 <= x % < 1
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Information on ingredients :

[1] Substance for which maximum workplace exposure limits are available.

SECTION 4: First-aid measures

As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open. If there is any redness, pain or visual impairment, consult an ophthalmologist.

4.2. In the event of splashes or contact with skin :

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.

4.3. In the event of swallowing :

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. Keep the person exposed at rest. Do not force vomiting.

Seek medical attention immediately, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

If swallowed accidentally, do not allow to drink, do not induce vomiting and transfer to hospital immediately by ambulance. Show the label to the doctor.

4.4. Most important symptoms and effects, both acute and delayed

No data available.

4.5. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Fire-fighting measures

Non-flammable

5.1. Extinguishing media Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO₂)

5.2. Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet
- water

5.3. Special hazards arising from the substance or mixture

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 (CO₂)

5.4. Advice for firefighters

No data available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

6.2. For non first aid worker

Avoid any contact with the skin and eyes.

6.3. For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.4. 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.

Prevent any material from entering drains or waterways.

6.5. Methods and material for containment and cleaning up

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Clean preferably with a detergent, do not use solvents.

6.6. Reference to other sections

No data available.

SECTION 7: Handling and storage

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

7.1. Precautions for safe handling

Always wash hands after handling.
Remove and wash contaminated clothing before re-using.
Ensure that there is adequate ventilation, especially in confined areas.

7.2. Fire prevention :

Handle in well-ventilated areas.
Never inhale this substance.
Prevent access by unauthorised personnel.

7.3. Recommended equipment and procedures :

For personal protection, see section 8.
Observe precautions stated on label and also industrial safety regulations.
Avoid skin and eye contact with this substance.
Packages which have been opened must be reclosed carefully and stored in an upright position.

7.4. Prohibited equipment and procedures :

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

7.5. Conditions for safe storage, including any incompatibilities

No data available.

7.6. Storage

Keep the container tightly closed in a dry, well-ventilated place.
Keep away from food and drink, including those for animals.
The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

7.7. Packaging

Always keep in packaging made of an identical material to the original.

7.8. Specific end use(s)

No data available.

SECTION 8: 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

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE):



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.

8.3 - Eye / face 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.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374. Gloves must be selected according to the

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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.

Type of gloves recommended :

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- PVA (Polyvinyl alcohol)

Recommended

properties :

- Impervious gloves in accordance with standard EN374
- **Body 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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General information :

Physical state :	Fluid liquid.
Color:	Pale yellow to amber yellow
Odour:	Characteristic, strong, spicy

Important health, safety and environmental information:

pH :	Not relevant.
Boiling point/boiling range :	Not specified.
Flash Point :	66.00 °C.
Vapour pressure (50°C) :	Between 175 kPa and 300 kPa inclusive.
Density :	0.870 - 0.890
Water solubility :	Insoluble.
Viscosity:	$\nu < 7 \text{ mm}^2/\text{s}$ (40°C)
Melting point/melting range :	Not specified.
Self-ignition temperature :	Not specified.
Decomposition point/decomposition range :	Not specified.

9.2 Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

This substance is stable under the recommended handling and storage conditions in section 7.

10.3 Possibility of hazardous reactions

When exposed to high temperatures, the substance can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

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)
- carbon dioxide (CO₂)

SECTION 11: Toxicological information

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11.1 Information on toxicological effects

Exposure to vapours from this solvent in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

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.

Repeated or prolonged contact with the substance may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days. Splashes in the eyes may cause irritation and reversible damage

May cause an allergic reaction by skin contact.

Aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration.

11.2 Substances Acute toxicity :

GERANIAL (CAS: 141-27-5)

Dermal route : LD50 = 2250 mg/kg

TERPINOLENE (CAS: 586-62-9)

Oral route : LD50 = 3850 mg/kg

GERANIOL (CAS: 106-24-1)

Oral route : LD50 = 3600 mg/kg

EUCALYPTOL (CAS: 470-82-6)

Oral route : LD50 = 2480 mg/kg

ALPHA-PINENE X (CAS: 80-56-8)

Oral route : LD50 = 3500 mg/kg

11.3 Aspiration hazard :

May be fatal if swallowed and enters airways.

Aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration.

SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

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

No data available.

12.1. Other adverse effects

No data available.

12.6 German regulations concerning the classification of hazards for water (WGK) :

WGK 2 (VwVwS vom 27/07/2005, KBws) : Hazardous for water.

SECTION 13: Disposal considerations

Proper waste management of the substance and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1 13.1. Waste treatment methods

Do not pour into drains or waterways.

13.2 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.

13.3 Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

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SECTION 14: Transport information

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2015 - IMDG 2014 - ICAO/IATA 2015).

14.1 UN number

3082

14.2 UN proper shipping name

UN3082=ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(camphene)

14.3 Transport hazard class(es)

- Classification :



9

14.4 Packing group

III

14.5 Environmental hazards

- Environmentally hazardous material :



14.6 Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	9	M6	III	9	90	5 L	274 335 375 601	E1	3	E

*Not subject to this regulation if Q ≤ 5 l / 5 kg (ADR 3.3.1 - DS 375)

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ
	9	-	III	5 L	F-A,S-F	274 335 969	E1

*Not subject to this regulation if Q ≤ 5 l / 5 kg (IMDG 3.3.1 - 2.10.2.7)

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	9	-	III	964	450 L	964	450 L	A97 A158	E1
	9	-	III	Y964	30 kg G	-	-	A97 A158	E1

*Not subject to this regulation if Q ≤ 5 l / 5 kg (IATA 4.4.4 - DS A197)

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG. For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

SECTION 15: Regulatory information

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

- Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 1297/2014.

- Container information:

No data available.

- Particular provisions :

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No data available.

- German regulations concerning the classification of hazards for water (WGK) :

WGK 2 (VwVwS vom 27/07/2005, KBws) : Hazardous for water.

15.2 Chemical safety assessment

No data available.

SECTION 16: Other information

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the substance and not as a guarantee of the properties thereof.

CAS : 8007-08-7 EINECS : 283-634-2 GINGER OIL

16.1 Wording of the phrases mentioned in section 3 :

H226	Flammable liquid and vapour.
H228	Flammable solid.
H304	May be fatal if swallowed and enters airways.
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.

Abbreviations :

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

GHS07 : Exclamation mark

GHS08 : Health hazard

GHS09 : Environment

PBT : Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.

DISCLAIMER: The information in this SDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness and accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond Camden-Grey Essential Oils, Inc.'s control, it is the user's responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising out of the product's improper use. No warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Various government agencies (e.g. DOT, EPA, FDA) may have specific regulations concerning the transportation, handling, storage, use or disposal of this product, which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.