

Safety Data Sheet

1. Identification

1.1 Product identifier :

Product name : GINGER OIL EXTRACT
Synonym(Scientific name) : Zingiber Officinale
CAS No. : 84696-15-1
INCI name : Zingiber Officinale (Ginger) Root Oil
FEMA No. : 2521

1.2 Recommended use of the chemical/mixture and restrictions on use :

Flavourings/Fragrances

1.3 Supplier's details :

Company name : SEIKODO Ishida Co., Ltd.
Address : 1-15-9 Kyomachibori, Nishi-ku, Osaka 550-0003 JAPAN
Tel. : +81 6 6443 1921
Fax. : +81 6 6441 5647
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2. Hazards identification

2.1 Classification :

Flammable liquid : Category 4
Acute toxicity(oral) : Not Classification(95.1 % of the mixture consists of ingredient(s) of unknown acute oral toxicity)
Acute toxicity(dermal) : Not Classification(94.8 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity)
Acute toxicity(inhalation) : Not Classification(99.9 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity)
Skin corrosion/irritation : Category 2
Serious eye damage/eye irritation : Category 2A
Skin sensitizer : Category 1
Aspiration hazard : Category 1
Hazardous to the aquatic environment : Category Acute 2(85.6 % of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment)
Hazardous to the aquatic environment : Category Chronic 2(82.2 % of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment)

2.2 Label element

Pictograms (Hazard symbols) :



Signal word : Danger

Hazard statements:

- H227 Combustible liquid
- H304 May be fatal if swallowed and enters airways
- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H319 Cause serious eye irritation
- H401 Toxic to aquatic life
- H411 Toxic to aquatic life with long lasting effects

Precautionary statements :

Prevention

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P264 Wash face, hands and any exposed skin thoroughly after handling.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection

Response

- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P321 Specific treatment (see supplemental first aid instructions on this label).
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash if before reuse.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 If eye irritation persists: Get medical advice/attention.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P370+P378

P391 Collect spillage.

Storage

P403 Store in a well-ventilated place

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3.Composition/information on ingredients

CAS No.	Component	Quantity(%)
80-56-8	a-Pinene	0.1 - 5.0
79-92-5	Camphene	1.0 - 5.0
127-91-3	b-Pinene	0.1 - 5.0
123-35-3	Myrcene	0.1 - 5.0
138-86-3	Limonene	1.0 - 10.0
470-82-6	1,8-Cineol	1.0 - 5.0
99-85-4	gamma-Terpinene	0.1 - 5.0
586-62-9	a-Terpinolene	0.01 - 1.0
78-70-6	Linalool	0.1 - 1.0
76-22-2	Camphor	0.01-1.0
106-22-9	Citronellol	0.1 - 1.0
106-26-3	Neral	1.0 - 5.0
106-24-1	Geraniol	0.1 - 5.0
5392-40-5	Geranial	1.0 - 5.0
105-87-3	Geranyl acetate	0.01- 1.0
20307-83-9	b-Sesquiphellandrene	1.0 -10.0
122-48-5	Gingerone	1.0 - 5.0
555-66-8	6-Shogaol	1.0 - 5.0
23513-14-6	Gingerol	1.0 - 10.0
-	8-Shogaol	0.5 - 5.0
-	10-Shogaol	0.5 - 5.0

4. First-aid measures

After inhalation:

Remove person to fresh air. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, give artificial respiration.

After skin contact:

Wash the contaminated area with soap and water. Remove contaminated clothing and wash before reuse. If irritation develops, get medical attention.

After eye contact:

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.

After ingestion:

If swallowed, do NOT induce vomiting. Seek immediate medical attention.

5. Fire-fighting measures

Suitable extinguishing media : Foam, extinguishing powder, carbon dioxide, water fog. In case of fire, cool endangered containers with water fog.

Unsuitable extinguishing media : High pressure water jet.

Specific hazards in case of fire : None are known.

Special protective equipment and precaution for fire fighters:

For fires in enclosed areas, wear self-contained breathing apparatus. Do not inhale combustion gases.

6. Accidental release measures

Personal precautions:

Depending on extent of release, consider the need for fire fighters/emergency responders with adequate personal protective equipment for cleaning up.

Do not eat, drink or smoke while cleaning up. Use a self-contained respirator, a mask with filter (type A class 3) or a filtering mask (e.g., EN 405). Wear protective clothing, safety glasses and impervious gloves (e.g., neoprene gloves). Ensure adequate ventilation. Avoid all sources of ignition, hot surfaces and open flames (see also Section 7).

Environmental precautions:

Prevent spills from entering storm sewers or drains and contact with soil.

Methods and materials for containment and cleaning up:

Eliminate all ignition sources. Runoff may create fire or explosion hazard in sewer system. Absorb on fire retardant, liquid-absorbing material (treated sawdust, diatomaceous earth, sand). Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal (see also Section 13).

7. Handling and storage

Precautions for safe handling:

Avoid contact with eyes. Avoid prolonged repeated skin contact and breathing mists/vapours.

Use in well-ventilated area away from all ignition sources. Switch off all electrical devices such as parabolic heaters, hotplates, storage heaters etc. in good time for them to have cooled down before commencing work.

Do not smoke; do not weld. Do not empty waste into sanitary drains. Take measures to prevent the build up of electrostatic charge.

Conditions for safe storage, including incompatibilities:

Storage containers must be grounded and bonded. Store away from all ignition sources in a Cool and dry location area in the original container equipped with an automatic sprinkling system. Ensure adequate ventilation.

8. Exposure controls/personal protection

Exposure Limits

Component	CAS No.	ACGIH TWA(ppm)	ACGIH STEL(ppm)
alpha-Pinene	80-56-8	20	-
beta-Pinene	127-91-3	20	-
Camphor	76-22-2	2	3
Geranial	5392-40-5	5	-

Ventilation:

Use in well-ventilated area with local exhaust.

Respiratory protection:

Approved respiratory equipment must be used when airborne concentrations are unknown or exceed the exposure limits. When processing large amounts, use a light duty construction compressed air line breathing apparatus (e.g., in accordance with EN1835), a mask with filter (type A class 3, colour brown) or a filtering half mask (e.g., in accordance with EN 405) when there is inadequate ventilation.

Eye protection:

Safety glasses with side shields or chemical goggles must be worn.

Skin protection:

If prolonged or repeated skin contact is likely, neoprene gloves should be worn. Good personal hygiene practices should always be followed.

9. Physical and chemical properties

Physical state	: liquid
Colour	: Brown to Dark brown
Odour	: Characteristic odor
Melting/Freezing point	: Not available
Initial boiling/boiling point	: Not available
Flammable(solid,gas)	: Not applicable

Explosion limit(Lower/Upper)	: Not available
Flash Point	: 82°C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Kinematic viscosity	: Not available
Solubility	: Insoluble in water
Partition coefficient(n-Octanol/Water log value)	: Not available
Vapour pressure	: Not available
Density / relative density (d20/20)	: 0.940-0.980
Relative vapour density	: Not available
Particle characteristics	: Not available

10.Stability and reactivity

Chemical stability	: No decomposition, if used according to specifications.
Possibility of hazardous reactions	: None are known.
Conditions to avoid	: Heat, sparks, flame and build up of static electricity.
Materials to avoid	: Halogens, strong acids, alkalies and oxidizers.
Hazardous decomposition products	: None are known.

11.Toxicological information

CAS No.	Component	Hazards
80-56-8	a-Pinene	Aspiration hazard - Category 1 Acute toxicity oral - Category 4(ATE 500) Hazardous to the aquatic environment - Category Acute 1 Hazardous to the aquatic environment - Category Chronic 1 Skin corrosion/irritation - Category 2 Skin sensitizer - Category 1B
79-92-5	Camphene	Serious eye damage/eye irritation - Category 2B Hazardous to the aquatic environment - Category Acute 1 Hazardous to the aquatic environment - Category Chronic 1
127-91-3	b-Pinene	Aspiration hazard - Category 1 Hazardous to the aquatic environment - Category Acute 1 Hazardous to the aquatic environment - Category Chronic 1 Skin corrosion/irritation - Category 2 Skin sensitizer - Category 1B

123-35-3	Myrcene	Aspiration hazard - Category 1 Serious eye damage/eye irritation - Category 2A Hazardous to the aquatic environment - Category Acute 1 Hazardous to the aquatic environment - Category Chronic 2 Skin corrosion/irritation - Category 2
138-86-3	Limonene	Aspiration hazard - Category 1 Hazardous to the aquatic environment - Category Acute 1 Hazardous to the aquatic environment - Category Chronic 1 Skin corrosion/irritation - Category 2 Skin sensitizer - Category 1B
470-82-6	1,8-Cineol	Acute toxicity oral - Category 5(2480) Skin corrosion/irritation - Category 3 Skin sensitizer - Category 1B
99-85-4	gamma-Terpinene	Aspiration hazard - Category 1 Acute toxicity oral - Category 5(3850) Skin corrosion/irritation - Category 3
586-62-9	a-Terpinolene	Aspiration hazard - Category 1 Acute toxicity oral - Category 5(3775) Hazardous to the aquatic environment - Category Acute 1 Hazardous to the aquatic environment - Category Chronic 1 Skin corrosion/irritation - Category 3 Skin sensitizer - Category 1B
78-70-6	Linalool	Acute toxicity oral - Category 5(2790) Serious eye damage/eye irritation - Category 2A Hazardous to the aquatic environment - Category Acute 3 Skin corrosion/irritation - Category 2 Skin sensitizer - Category 1B
76-22-2	Camphor	Acute toxicity Inhalation - Category 4(ATE 1.5,m) Acute toxicity oral - Category 4(1500) Hazardous to the aquatic environment - Category Acute 3 Specific target organ toxicity following single exposure - Category 2(inhalation, lungs)
106-22-9	Citronellol	Acute toxicity demal - Category 5(2650) Acute toxicity oral - Category 5(3450) Serious eye damage/eye irritation - Category 2A Hazardous to the aquatic environment - Category Acute 2 Skin corrosion/irritation - Category 2 Skin sensitizer - Category 1B

106-26-3	Neral	Acute toxicity demal - Category 5(2250) Serious eye damage/eye irritation - Category 2A Hazardous to the aquatic environment - Category Acute 2 Skin corrosion/irritation - Category 2 Skin sensitizer - Category 1B
106-24-1	Geraniol	Acute toxicity oral - Category 5(3600) Serious eye damage/eye irritation - Category 1 Hazardous to the aquatic environment - Category Acute 3 Skin corrosion/irritation - Category 2 Skin sensitizer - Category 1B
5392-40-5	Geranial	Acute toxicity demal - Category 5(2250) Serious eye damage/eye irritation - Category 2A Hazardous to the aquatic environment - Category Acute 2 Skin corrosion/irritation - Category 2 Skin sensitizer - Category 1B
105-87-3	Geranyl acetate	Hazardous to the aquatic environment - Category Acute 2 Hazardous to the aquatic environment - Category Chronic 3 Skin corrosion/irritation - Category 2 Skin sensitizer - Category 1B

12. Ecological information

Toxicity:

Hazardous to the aquatic environment : Category Acute 1(85.6 % of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment)

Hazardous to the aquatic environment : Category Chronic 1(82.2 % of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment)

Persistence and degradability : The product is not been tested.

Bio-accumulative potential : The product is not been tested.

Mobility in soil : The product is not been tested.

Other adverse effects : Not information available.

13. Disposal considerations

Disposal methods:

Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited by local regulation. The product is suitable for processing at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal

14. Transport information

Land transport(ADR):

UN number:3082

UN proper shipping name:Environmentally hazardous substance, liquid, n.o.s.(Limonene)

Transport hazard class(es):9

Packing group:III

Hazard label:9



Marine transport(IMDG):

UN number:3082

UN proper shipping name:Environmentally hazardous substance, liquid, n.o.s.(Limonene)

Transport hazard class(es):9

Packing group:III

Hazard label:9



Air transport(IATA):

UN number:3082

UN proper shipping name:Environmentally hazardous substance, liquid, n.o.s.(Limonene)

Transport hazard class(es):9

Packing group:III

Hazard label:9



Environmental hazard : Yes (Marine Pollutant)



Special precautions for use : No information available

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code) : Not applicable

15.Regulatory information:

Safety, health and environmental regulations specific for the product in question:

No concerned

Chemical Safety Assessment:

Not available

16.Other information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

The receiver of our product is singulary responsible for adhering to existing laws and regulations.