

# Safety Data Sheet

## 1. Identification

### 1.1 Product identifier :

**Product name** : YUZU OIL TS (Extract)

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

Foodadditives (for industriel use only)

### 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 liquids	: Category 3
Acute toxicity, oral	: Not classified(8.5% of the mixture consists of ingredient(s) of unknown acute oral toxicity)
Acute toxicity, dermal	: Not classified(8.5% of the mixture consists of ingredient(s) of unknown acute dermal toxicity)
Acute toxicity, inhalation	: Not classified(8.5% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity)
Skin corrosion/irritation	: Category 2
Serious eye damage/eye irritation	: Classification not possible
Sensitization, respiratory	: Classification not possible
Sensitization, Skin	: Category 1
Germ cell mutagenicity	: Classification not possible
Carcinogenicity	: Classification not possible
Reproductive toxicity	: Classification not possible
Specific target organ toxicity, single exposure	: Classification not possible
Specific target organ toxicity, repeated exposur	: Classification not possible
Aspiration hazard	: Category 1
Hazardous to the aquatic environment	: Category Acute 1(13.7% of the mixture consists of ingredient(s) of unknown hazards to the aquatic Category Chronic 1(13.7% of the mixture consists of ingredient(s) of unknown hazards to the aquatic

### 2.2 Label element

**Pictograms (Hazard symbols) :**



**Signal word:** Danger

**Hazard statements:**

H226 Flammable liquide and vapour

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H304 May be fatal if swallowed and enters airways

H410 Very toxic to aquatic life with long-lasting effects

**Precautionary statements :**

**Prevention**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use

P210 Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting/.../] equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash ... thoroughly after handling.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

**Response**

P303+P361+P353 IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].

P370+P378 In case of fire: Use ... to extinguish.

P302+P352 IF ON SKIN: wash with plenty of water.

P321 Specific treatment (see ... on this label).

P332+P313 IF SKIN irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing.

P333+P313 IF SKIN irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

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

P391 Collect spillage.

**Storage**

P405 Store locked up.

P403+P235 Store in a well-ventilated place. Keep cool.

**Disposal**

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

**3. Composition/information on ingredients**

Product identity : Mixture

**Hazardous components**

CAS No.	Components	Quantity(%)
123-35-3	beta-myrcene	2.2%
5989-27-5	d-limonene	70.0-80.0%
78-70-6	linalool	1.0-10.0%
80-56-8	alpha-pinene	1.0-10.0%
127-91-3	beta-pinene	1.0-10.0%
586-62-9	terpinolene	0.1-1.0%
89-83-8	thymol	0.1-1.0%

**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 area equipped with an automatic sprinkling system. Ensure adequate ventilation. Store at temperatures less than 10°C. Store only in the original container.

**8. Exposure controls/personal protection****Exposure Limits**

Component	CAS No.	ACGIH TWA(ppm)	ACGIH STEL(ppm)
beta-myrcene	123-35-3	-	-
d-limonene	5989-27-5	-	-
linalool	78-70-6	-	-
alpha-pinene	80-56-8	20	-
beta-pinene	127-91-3	20	-
terpinolene	586-62-9	-	-
thymol	89-83-8	-	-

**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	: Yellow to orange or brown green
Odour	: Yuzu odor
Melting/Freezing point	: Not determined
Initial boiling/boiling point	: Not determined
Flammable(solid,gas)	: Not determined
Explosion limit(Lower/Upper)	: Not determined
Flash Point	: 52 °C
Auto-ignition temperature	: Not determined
Decomposition temperature	: Not determined
pH	: Not determined
Kinematic viscosity	: Not determined
Solubility	: Insoluble in water
Partition coefficient (n-Octanol/Water log value)	: Not determined
Vapour pressure	: Not determined
Density / relative density	: 0.846~0.866(d20/20)
Relative vapour density	: Not determined
Particle characteristics	: Not determined

## 10. Stability and reactivity

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

## 11. Toxicological information

No concerned

## 12. Ecological information

### Toxicity:

Hazardous to the aquatic environment: Category Acute 1(13.7% of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment

Hazardous to the aquatic environment: Category Chronic 1(13.7% of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment

<b>Persistence and degradability</b>	: The product is not been tested.
<b>Bio-accumulative potential</b>	: The product is not been tested.
<b>Mobility in soil</b>	: The product is not been tested.
<b>Other adverse effects</b>	: 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 : 1197  
 UN proper shipping name : EXTRACTS,LIQUID,for flavour or aroma  
 Transport hazard class(es) : 3  
 Packing group : III

**Marine transport(IMDG):**

UN number : 1197  
 UN proper shipping name : EXTRACTS,LIQUID,for flavour or aroma  
 Transport hazard class(es) : 3  
 Packing group : III

**Air transport(IATA):**

UN number : 1197  
 UN proper shipping name : EXTRACTS,LIQUID,for flavour or aroma  
 Transport hazard class(es) : 3  
 Packing group : III



**Environmental hazard:** Yes (Marine Pollutant)



**Special precautions for use:** Warning : Flammable liquids

**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 singularly responsible for adhering to existing laws and regulations.