

SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product: YUZU FRAGRANCE 381591

Version: 47

Section 1. Identification of the substance or the mixture and of the supplier

1.1 Product Identifier

Product identifier: YUZU FRAGRANCE 381591 (Contains:HYDROXYCITRONELLAL, LIMONENE, LINALOOL, TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES)

Other identifiers: None

1.2 Relevant identified uses of the substance of mixture and uses advised against

Product uses: Fragrances

1.3 Details of the supplier of the safety data sheet

Company name:

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Classification under Regulation (EC) No 1272/2008

Class and category of danger: Skin Corrosion / Irritation Category 2
Eye Damage / Irritation Category 2
Sensitization - Skin Category 1
Hazardous to the Aquatic Environment - Long-term Hazard Category 3
H315, Causes skin irritation.
H317, May cause an allergic skin reaction.
H319, Causes serious eye irritation.
H412, Harmful to aquatic life with long lasting effects.

2.2 Label elements

Classification under Regulation (EC) No 1272/2008

Signal word: Warning

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Hazard statements: H315, Causes skin irritation.
H317, May cause an allergic skin reaction.
H319, Causes serious eye irritation.
H412, Harmful to aquatic life with long lasting effects.

Supplemental Information: EUH208, Contains 4-TERT-BUTYLCYCLOHEXYL ACETATE, ALLYL CYCLOHEXYLPROPIONATE, BENZYL SALICYLATE, CIS-3-HEXENYL METHYL CARBONATE, CITRONELLOL, DELTA-DAMASCONE, DIMETHYL-3-CYCLOHEXENE-1-CARBALDEHYDE, ETHYL LINALOOL, GERANIOL, GERANYL ACETATE, HEXYL CINNAMAL, LINALYL ACETATE, NERYL ACETATE. May produce an allergic reaction.

Precautionary statements: P261, Avoid breathing vapour or dust.
P264, Wash hands and other contacted skin thoroughly after handling.
P272, Contaminated work clothing should not be allowed out of the workplace.
P273, Avoid release to the environment.
P280, Wear protective gloves/eye protection/face protection.
P302/352, IF ON SKIN: Wash with plenty of soap and water.
P305/351/338, IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333/313, If skin irritation or rash occurs: Get medical advice/attention.
P337/313, If eye irritation persists: Get medical advice/attention.
P362, Take off contaminated clothing and wash before reuse.
P501, Dispose of contents/container to approved disposal site, in accordance with local regulations.

Pictograms:



2.3 Other hazards

Other hazards: Sensitisers declared on a CLP Hazard Label: 4-TERT-BUTYLCYCLOHEXYL ACETATE, ALLYL CYCLOHEXYLPROPIONATE, BENZYL SALICYLATE, CIS-3-HEXENYL METHYL CARBONATE, CITRONELLOL, DELTA-DAMASCONE, DIMETHYL-3-CYCLOHEXENE-1-CARBALDEHYDE, ETHYL LINALOOL, GERANIOL, GERANYL ACETATE, HEXYL CINNAMAL, LINALYL ACETATE, NERYL ACETATE

Hydrocarbon Concentration %: 3.064%

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Section 3. Composition / information on ingredients

3.2 Mixtures

Contains:

| Name | CAS | EC | REACH Registration No. | % | Classification for (CLP) 1272/2008 | Specific Conc. Limits, M-factors and ATEs |
|--|--|---|------------------------|---------|--|---|
| TETRAMETHYL ACETYLOCTAHYDRON APHTHALENES | 54464-57-2, 54464-59-4, 68155-66-8, 68155-67-9 | 259-174-3, 259-175-9, 268-978-3, 268-979-9, 915-730-3 | 01-2119489989-04-xxxx | 5-<10% | SCI 2-SS 1B-EH C2; H315-H317-H411,- | |
| LINALOOL | 78-70-6 | 201-134-4 | 01-2119474016-42-xxxx | 5-<10% | SCI 2-EDI 2-SS 1B; H315-H317-H319,- | oral: ATE = 2790 mg/kg bw |
| LIMONENE | 5989-27-5 | 227-813-5 | | 1-<5% | FL 3-SCI 2-SS 1B-AH 1-EH A1-EH C3;H226- H304-H315-H317- H400-H412,- | |
| BENZYL SALICYLATE | 118-58-1 | 204-262-9 | | 1-<5% | SS 1B-EH C3;H317- H412,- | oral: ATE = 2200 mg/kg bw |
| HYDROXYCITRONELLAL | 107-75-5 | 203-518-7 | | 1-<5% | EDI 2-SS 1B;H317- H319,- | |
| CIS-2-TERT-BUTYLCYCLOHEXYL ACETATE | 20298-69-5 | 243-718-1 | 01-2119970713-33-xxxx | 1-<5% | EH C2;H411,- | oral: ATE = 4600 mg/kg bw |
| LINALYL ACETATE | 115-95-7 | 204-116-4 | 01-2119454789-19-xxxx | 1-<5% | SCI 2-EDI 2-SS 1B; H315-H317-H319,- | |
| 4-TERT-BUTYLCYCLOHEXYL ACETATE | 32210-23-4 | 250-954-9 | 01-2119976286-24-xxxx | 1-<5% | SS 1B;H317,- | oral: ATE = 3370 mg/kg bw |
| HEXYL CINNAMAL | 101-86-0 | 202-983-3 | | 1-<5% | SS 1B-EH A1-EH C2; H317-H400-H411,- | oral: ATE = 3100 mg/kg bw |
| 2,4,6-TRIMETHYL-4-PHENYL-1,3-DIOXANE | 5182-36-5 | 225-963-6 | 01-2120736310-68-xxxx | 1-<5% | ATO 4-EH C3;H302- H412,- | oral: ATE = 880 mg/kg bw |
| 2,4,4,7-TETRAMETHYL-6-OCTEN-3-ONE | 74338-72-0 | 422-520-0 | | 1-<5% | SCI 2-EH C2;H315- H411,- | |
| ALPHA-TERPINEOL | 98-55-5 | 202-680-6 | 01-2119980717-23-xxxx | 1-<5% | SCI 2-EDI 2;H315- H319,- | oral: ATE = 4300 mg/kg bw |
| GAMMA UNDECALACTONE | 104-67-6 | 203-225-4 | | 1-<5% | EH C3;H412,- | |
| CITRONELLOL | 106-22-9, 1117-61-9, 26489-01-0, 6812-78-8, 141-25-3, 7540-51-4 | 203-375-0, 214-250-5, 247-737-6, 229-887-4, 205-473-9, 231-415-7 | 01-2119453995-23-xxxx | 1-<5% | SCI 2-EDI 2-SS 1B; H315-H317-H319,- | dermal: ATE = 2650 mg/kg bw-oral: ATE = 3450 mg/kg bw |
| ETHYL LINALOOL | 10339-55-6 | 233-732-6 | 01-2119969272-32-xxxx | 1-<5% | SCI 2-EDI 2-SS 1B; H315-H317-H319,- | oral: ATE = 5000 mg/kg bw |
| DIMETHYL-4-ISOEPTENAL DIMETHYL ACETAL | 67674-46-8 | 266-885-2 | 01-2120741268-52-xxxx | 1-<5% | SCI 2-EH C3;H315- H412,- | |
| PHENYLISOXANOL | 55066-48-3 | 259-461-3 | 01-2119969446-23-xxxx | 1-<5% | ATO 4;H302,- | dermal: ATE = 3100 mg/kg bw-oral: ATE = 1830 mg/kg bw |
| GERANIOL | 106-24-1 | 203-377-1 | 01-2119552430-49-xxxx | 0.1-<1% | SCI 2-EDI 1-SS 1; H315-H317-H318,- | oral: ATE = 3600 mg/kg bw |
| GERANYL ACETATE | 105-87-3 | 203-341-5 | 01-2119973480-35-xxxx | 0.1-<1% | SCI 2-SS 1B-EH C3; H315-H317-H412,- | |
| NERYL ACETATE | 141-12-8 | 205-459-2 | | 0.1-<1% | SS 1B;H317,- | |

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| | | | | | | |
|---|------------|-------------------------|-----------------------|---------|--|--|
| ALLYL CYCLOHEXYLPROPIO NATE | 2705-87-5 | 220-292-5 | 01-2119976355-27-xxxx | 0.1-<1% | ATO 4-ATD 4-SS 1-EH A1-EH C2;H302-H312- H317-H400-H411,- | dermal: ATE = 1600 mg/kg bw-oral: ATE = 380 mg/kg bw |
| DELTA-DAMASCONE | 57378-68-4 | 260-709-8 | | 0.1-<1% | ATO 4-SCI 2-SS 1A- EH A1-EH C1;H302- H315-H317-H410,- | oral: ATE = 1400 mg/kg bw |
| DIMETHYL-3- CYCLOHEXENE-1- CARBALDEHYDE | 27939-60-2 | 248-742-6 | 01-2120766006-57-xxxx | 0.1-<1% | SCI 2-EDI 2-SS 1B-EH C2;H315-H317-H319- H411,- | oral: ATE = 3900 mg/kg bw |
| 4-METHYL-3-DECEN-5- OL | 81782-77-6 | 279-815-0 | 01-2119983528-21-xxxx | 0.1-<1% | EH A1-EH C2;H400- H411,- | |
| CITRONELLYL METHYLCROTONATE | 20770-40-5 | 244-019-4, 946-248-1 | 01-2120742577-46-xxxx | 0.1-<1% | EH A1-EH C2;H400- H411,- | M = 10 |
| CIS-3-HEXENYL METHYL CARBONATE | 67633-96-9 | 266-797-4 | 01-2120735800-60-xxxx | 0.1-<1% | SCI 2-SS 1B;H315- H317,- | |

Substances with Community workplace exposure limits:

Not Applicable

Substances that are endocrine disruptors according to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, greater than 0.1%:

Not Applicable

Substances that are persistent, bioaccumulative and toxic or very persistent and very bioaccumulative, greater than 0.1%:

Not Applicable

Section 4. First-aid measures

4.1 Description of first aid measures

- Inhalation:** Remove from exposure site to fresh air, keep at rest, and obtain medical attention.
- Eye exposure:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Skin exposure:** IF ON SKIN: Wash with plenty of soap and water.
- Ingestion:** Rinse mouth with water and obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

- Causes skin irritation.
- May cause an allergic skin reaction.
- Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

None expected, see Section 4.1 for further information.

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Section 5: Firefighting measures

5.1 Extinguishing media

Suitable media: Carbon dioxide, Dry chemical, Foam.

5.2 Special hazards arising from the substance or mixture

In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.

5.3 Advice for fire fighters:

In case of insufficient ventilation, wear suitable respiratory equipment.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.

6.2 Environmental precautions:

Keep away from drains, surface and ground water, and soil.

6.3 Methods and material for containment and cleaning up:

Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.

6.4 Reference to other sections:

Also refer to sections 8 and 13.

Section 7. Handling and storage

7.1 Precautions for safe handling:

Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use personal protective equipment as required. Use in accordance with good manufacturing and industrial hygiene practices. Use in areas with adequate ventilation. Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

7.3 Specific end use(s):

Fragrances: Use in accordance with good manufacturing and industrial hygiene practices.

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Section 8. Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits: Not Applicable

8.2 Exposure Controls

Eye / Skin Protection

Wear protective gloves/eye protection/face protection

Respiratory Protection

Under normal conditions of use and where adequate ventilation is available to prevent build up of excessive vapour, this material should not require special engineering controls. However, in conditions of high or prolonged use, or high temperature or other conditions which increase exposure, the following engineering controls can be used to minimise exposure to personnel: a) Increase ventilation of the area with local exhaust ventilation. b) Personnel can use an approved, appropriately fitted respirator with organic vapour cartridge or canisters and particulate filters. c) Use closed systems for transferring and processing this material.

Also refer to Sections 2 and 7.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|---------------------|
| Physical State/Colour: | Clear yellow liquid |
| Odour: | Not determined |
| Odour threshold: | Not determined |
| Melting point / freezing point: | Not determined |
| Boiling point or initial boiling point and boiling range: | Not determined |
| Flammability: | Not determined |
| Lower and upper explosion limit: | Not determined |
| Flash point: | 81 °C |
| Auto-ignition temperature: | Not determined |
| Decomposition temperature: | Not relevant |
| pH: | Not determined |
| Kinematic viscosity: | Not determined |
| Solubility: | Not determined |
| Partition coefficient: n-octanol/water (log value): | Not determined |
| Vapour pressure: | 0.06615646 mmHg |
| Density and/or relative density: | 0.9800 |
| Relative vapour density: | Not determined |
| Particle characteristics: | Not determined |

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9.2 Other information: None available

Section 10. Stability and reactivity

10.1 Reactivity:

Presents no significant reactivity hazard, by itself or in contact with water.

10.2 Chemical stability:

Good stability under normal storage conditions.

10.3 Possibility of hazardous reactions:

Not expected under normal conditions of use.

10.4 Conditions to avoid:

Avoid extreme heat.

10.5 Incompatible materials:

Avoid contact with strong acids, alkalis or oxidising agents.

10.6 Hazardous decomposition products:

Not expected.

Section 11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

This mixture has not been tested as a whole for health effects. The health effects have been calculated using the methods outlined in Regulation (EC) No 1272/2008 (CLP).

| | |
|---|--|
| Acute Toxicity: | Based on available data the classification criteria are not met. |
| Acute Toxicity Oral | >5000 |
| Acute Toxicity Dermal | >5000 |
| Acute Toxicity Inhalation | Not Available |
| Skin corrosion/irritation: | Skin Corrosion / Irritation Category 2 |
| Serious eye damage/irritation: | Eye Damage / Irritation Category 2 |
| Respiratory or skin sensitisation: | Sensitization - Skin Category 1 |
| Germ cell mutagenicity: | Based on available data the classification criteria are not met. |
| Carcinogenicity: | Based on available data the classification criteria are not met. |
| Reproductive toxicity: | Based on available data the classification criteria are not met. |
| STOT-single exposure: | Based on available data the classification criteria are not met. |
| STOT-repeated exposure: | Based on available data the classification criteria are not met. |
| Aspiration hazard: | Based on available data the classification criteria are not met. |

Information about hazardous ingredients in the mixture

| Ingredient | CAS | EC | LD50/ATE Oral | LD50/ATE Dermal | LC50/ATE Inhalation | LC50 Route |
|--------------------------------------|-----------|-----------|---------------|-----------------|---------------------|---------------|
| 2,4,6-TRIMETHYL-4-PHENYL-1,3-DIOXANE | 5182-36-5 | 225-963-6 | 880 | Not available | Not available | Not available |

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| | | | | | | |
|----------------|------------|-----------|------|------|---------------|---------------|
| PHENYLISOXANOL | 55066-48-3 | 259-461-3 | 1830 | 3100 | Not available | Not available |
|----------------|------------|-----------|------|------|---------------|---------------|

Refer to Sections 2 and 3 for additional information.

11.2 Information on other hazards

Not Applicable

Section 12. Ecological information

12.1 Toxicity:

Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability: Not available

12.3 Bioaccumulative potential: Not available

12.4 Mobility in soil: Not available

12.5 Results of PBT and vPvB assessment:

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Endocrine disrupting properties: Not Applicable

12.7 Other adverse effects: Not available

Section 13. Disposal considerations

13.1 Waste treatment methods:

Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. Transport information

| | 14.1 UN number: | 14.2 UN Proper Shipping Name: | 14.3 Transport hazard class (es): | Sub Risk: | 14.4 Packing Group: |
|-----------------------------|-----------------|-------------------------------|-----------------------------------|-----------|---------------------|
| UN Model Regulations | Not classified | - | - | - | - |
| IMDG | Not classified | - | - | - | - |
| ADR,RID,ADN | Not classified | - | - | - | - |
| ICAO TI | Not classified | - | - | - | - |

14.5 Environmental hazards: Not environmentally hazardous for transport

14.6 Special precautions for user: None additional

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not classified

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Section 15. Regulatory information

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

None additional

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

Section 16. Other information

Concentration % Limits: SCI 2=46.26% EDI 2=47.50% SS 1=16.67% EH C3=16.18% EDI 2A=41.58%

Total Fractional Values: SCI 2=2.16 EDI 2=2.11 SS 1=6.00 EH C3=6.18 EDI 2A=2.41

Key to revisions:

SECTION 3: Composition/information on ingredients

Key to abbreviations:

| Abbreviation | Meaning |
|--------------|--|
| AH 1 | Aspiration Hazard Category 1 |
| ATD 4 | Acute Toxicity - Dermal Category 4 |
| ATO 4 | Acute Toxicity - Oral Category 4 |
| EDI 1 | Eye Damage / Irritation Category 1 |
| EDI 2 | Eye Damage / Irritation Category 2 |
| EH A1 | Hazardous to the Aquatic Environment - Acute Hazard Category 1 |
| EH C1 | Hazardous to the Aquatic Environment - Long-term Hazard Category 1 |
| EH C2 | Hazardous to the Aquatic Environment - Long-term Hazard Category 2 |
| EH C3 | Hazardous to the Aquatic Environment - Long-term Hazard Category 3 |
| FL 3 | Flammable Liquid, Hazard Category 3 |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| 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. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| P210 | Keep away from heat, sparks, open flames and hot surfaces. - No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground/bond container and receiving equipment. |

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| | |
|--------------|--|
| P241 | Use explosion-proof electrical, ventilating and lighting equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P261 | Avoid breathing vapour or dust. |
| P264 | Wash hands and other contacted skin thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/eye protection/face protection. |
| P301/310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| P301/312 | IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell. |
| P302/352 | IF ON SKIN: Wash with plenty of soap and water. |
| P303/361/353 | IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P305/351/338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310 | Immediately call a POISON CENTER or doctor/physician. |
| P312 | Call a POISON CENTRE or doctor/physician if you feel unwell. |
| P330 | Rinse mouth. |
| P331 | Do not induce vomiting. |
| P332/313 | If skin irritation occurs: Get medical advice/attention. |
| P333/313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P337/313 | If eye irritation persists: Get medical advice/attention. |
| P362 | Take off contaminated clothing and wash before reuse. |
| P363 | Wash contaminated clothing before reuse. |
| P370/378 | In case of fire: Use carbon dioxide, dry chemical, foam for extinction. |
| P391 | Collect spillage. |
| P403/235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to approved disposal site, in accordance with local regulations. |
| SCI 2 | Skin Corrosion / Irritation Category 2 |
| SS 1 | Sensitization - Skin Category 1 |
| SS 1A | Sensitization - Skin Category 1A |
| SS 1B | Sensitization - Skin Category 1B |

The information in this safety data sheet is to the best of our knowledge true and accurate but all data, instructions, recommendations and/or suggestions are made without guarantee.