SAFETY DATA SHEET

candlescience

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product: Citron and Mandarin

Product Type: Fragrance Oil

Company: CandleScience
1247 Person St.
Durham, NC 27703

Product ID: 1315

SKU: 80899 - 808903, 90785

Emergency Telephone CHEMTREC 1-800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

CLASSIFICATION ACCORDING TO HCS 2024

Flammable Liquids: Category 4
Acute Toxicity Oral: Category 4
Skin Corrosion/Irritation: Category 2
Eye Damage/Irritation: Category 2A
Skin Sensitization: Category 1
Reproductive Toxicity: Category 2
Hazardous to the Aquatic Environment, Acute Hazard: Category 1
Hazardous to the Aquatic Environment, Long-term Hazard: Category 2

Signal Word:

DANGER



Hazard Statement:

H227: Combustible liquid.
H302: Harmful if swallowed.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye irritation.
H361: Suspected of damaging fertility or the unborn child.
H400: Very toxic to aquatic life.
H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements:

Prevention:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P264: Wash hands, forearms and face thoroughly after handling.
P272: Contaminated work clothing must not be allowed out of the workplace.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

P273: Avoid release to the environment.

Response:

P301+P317: IF SWALLOWED: Get medical help.
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 or attention.
P302+P352: IF ON SKIN: Wash with plenty of water.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.
P370+P378: In case of fire: Use media other than water to extinguish.
P391: Collect spillage.

Storage:

Store in a cool, dry, well-ventilated space.

Disposal:

Dispose of contents/container in accordance with local/national laws and regulations.

Please note: Mixtures have not been tested for health hazards. The health hazard information presented is provided in accordance with US 29 CFR 1910.1200 and is based on the testing of individual components which have been shown to cause or may cause these health effects when tested at higher concentrations or at full strength.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENT

This material is defined as a mixture.
The exact percentage (concentration) of composition has been withheld as a trade secret.

Hazardous components:	CAS No.	Concentration
d-Limonene	5989-27-5	≥ 5 < 10%
β-Ionone	79-77-6	≥ 5 < 10%
2-tert-Butylcyclohexyl acetate	88-41-5	≥ 5 < 10%
Allyl heptanoate	142-19-8	≥ 5 < 10%
Methyl dihydrojasmonate	24851-98-7	≥ 5 < 10%
Decanal	112-31-2	≥ 1 < 5%
Hexyl cinnamic aldehyde	101-86-0	≥ 1 < 5%
gamma-Undecalactone	104-67-6	≥ 1 < 5%
Citral	5392-40-5	≥ 1 < 5%
Octanal	124-13-0	≥ 1 < 5%
Dihydromyrcenol	18479-58-8	≥ 1 < 5%
Linalool	78-70-6	≥ 1 < 5%
Linalyl acetate	115-95-7	≥ 1 < 5%
Phenethyl alcohol	60-12-8	≥ 1 < 5%

Hexamethylindanopyran	1222-05-5	≥ 1 < 5%
Benzyl benzoate	120-51-4	≥ 1 < 5%
Benzyl acetate	140-11-4	≥ 1 < 5%
Hexyl salicylate	6259-76-3	≥ 1 < 5%
1-Methyl-4-(4-methyl-3-pentenyl)cyclohex-3-ene-1-carbaldehyde	52475-86-2	≥ 0.5 < 1%
2-Methyl-3-(p-isopropylphenyl)propionaldehyde	103-95-7	≥ 0.5 < 1%
Allyl (3-methylbutoxy)acetate	67634-00-8	≥ 0.5 < 1%
Bis (2-Ethylhexyl) Adipate	103-23-1	≥ 0.1 < 0.5%
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	68039-49-6	≥ 0.1 < 0.5%
Butylated hydroxytoluene	128-37-0	≥ 0.1 < 0.5%
Undecanal	110-41-8	≥ 0.1 < 0.5%
1-2,6,6-trimethyl-3-cyclohexen-1-yl-2-buten-1-one	57378-68-4	≥ 0.1 < 0.5%
Lauric aldehyde	112-54-9	≥ 0.1 < 0.5%
Ethyl methylphenylglycidate	77-83-8	≥ 0.1 < 0.5%
2,6-Dimethylhept-5-enal	106-72-9	≥ 0.1 < 0.5%
Acetophenone	98-86-2	≥ 0.1 < 0.5%
beta-Pinene	127-91-3	≥ 0.1 < 0.5%
alpha-Pinene	80-56-8	≥ 0.1 < 0.5%
Dodecanol	112-53-8	≥ 0.1 < 0.5%

SECTION 4. FIRST AID MEASURES

Inhalation:

Immediately remove from the area to a fresh air environment. Individuals showing evidence of inhalation exposure should be taken to an uncontaminated area. Obtain medical advice immediately.

Skin Contact:

Remove contaminated clothes. Wash skin with large volumes of water. If irritation persists, or any sign of tissue damage is apparent, obtain medical advice immediately.

Eye Contact:

Irrigate with water for at least 15 minutes; obtain medical advice if irritation persists.

Ingestion:

Rinse mouth with water. Give up to a half pint of milk or water. Obtain medical advice immediately. Do not induce vomiting.

Most important symptoms:

No additional information available. Refer to Section 2 ‘Response’

Indication of immediate medical attention:

None known

General information:

As in all cases of potential poisoning, obtain medical advice immediately.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media:

Foam, carbon dioxide, or dry chemical.

Unsuitable extinguishing media:

Avoid use of water in extinguishing fires.

Specific hazards:

During fire, gases hazardous to health may be formed. Do not allow run-off from fire fighting to enter drains or water courses.

Special fire fighting procedures:

Wear self-contained breathing apparatus for firefighting. Move containers from fire area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Evacuate personnel to safe areas. Remove all sources of ignition. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up.

Environmental precautions:

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Dispose of in accordance with local regulations. Local authorities should be advised if significant spillage cannot be contained.

Methods and materials for containment and cleaning up:

Soak up with inert absorbent material (e.g. sand, silica gel, vermiculite). Keep in suitable and closed containers for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid contact with skin and eyes. Avoid prolonged inhalation of vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety practices.

Conditions for safe storage, including any incompatibilities:

Store in tightly closed and upright container in a cool, dry, ventilated area. Store away from light, heat, and sources of ignition.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

ACGIH: beta-Pinene (CAS 127-91-3) TWA 20 ppm

ACGIH: Butylated hydroxytoluene (CAS 128-37-0) TWA 2 mg/m^3

NIOSH REL: Butylated hydroxytoluene (CAS 128-37-0) TWA 10 mg/m^3

NIOSH: Pocket Guide to Chemical Hazards: Butylated hydroxytoluene (CAS 128-37-0) TWA 10 mg/m³

OSHA PEL: Butylated hydroxytoluene (CAS 128-37-0) TWA 10 mg/m³

ACGIH: Benzyl acetate (CAS 140-11-4) TWA 10 ppm

CAL PEL: Benzyl acetate (CAS 140-11-4) PEL 10ppm (61 mg/m³)

ACGIH: Citral (CAS 5392-40-5) TWA 5 ppm

ACGIH: d-Limonene (CAS 5989-27-5) TWA 5 ppm

ACGIH: alpha-Pinene (CAS 80-56-8) TWA 20 ppm

ACGIH: Acetophenone (CAS 98-86-2) TWA 10 ppm

US WEEL: Acetophenone (CAS 98-86-2) TWA 10ppm (50 mg/m³)

Appropriate Engineering Controls:

Ventilation:

Use engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

Personal Protective Equipment:

Eye protection:

Ensure that eyewash stations and safety showers are close to the workstation location.
Chemical resistant goggles must be worn.

Hand protection:

Wear chemical resistant gloves suitable for this material as determined by a hazard assessment. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin and body protection:

Wear protective clothing suitable for this material as determined by a hazard assessment.

Respiratory protection:

Respiratory protection should be worn when workplace exposures exceed exposure limit requirements or guidelines. If there are no applicable exposure limits or guidelines, use an approved respirator where there is a potential for adverse effects, including but not limited to respiratory irritation or odor, where indicated or required by the exposure assessment. Selection of air-purifying or positive-pressure supplied air will depend on the results of the exposure assessment which includes an evaluation of the specific operations and the actual or potential airborne concentrations. The type of cartridge or filter to be used must be selected and approved for the chemical, class, or classes of chemicals likely to be encountered in the workplace. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice. Remove contaminated clothing and protective equipment before entering eating areas. Wash hands before breaks and immediately after handling the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid
Color:	Yellow
Odor:	Characteristic

Odor threshold:	N/A
pH:	N/A
Melting point:	N/A
Boiling point:	N/A
Flashpoint:	64.9 °C 149 °F
Evaporation Rate (Butyl Acetate = 1):	N/A
Flammability (solid, gas):	N/A
Upper lower flammability or explosive limits:	N/A
Vapor density (Air=1):	N/A
Vapor pressure (mmHg @ 20C°):	N/A
Specific gravity (H2O=1):	0.91
Solubility in water:	No
Solubility in other solvents:	N/A
Partition coefficient: n-octanol/water:	N/A
Auto-ignition temperature:	N/A
Decomposition temperature:	N/A
Kinematic viscosity:	N/A
Dynamic viscosity:	N/A
Explosive properties:	N/A
Oxidizing properties:	N/A
Refractive index (n20°C/D):	N/A
VOC:	30.93 %

SECTION 10. STABILITY AND REACTIVITY

Chemical stability:
The product is stable and non-reactive under normal conditions of use, storage and transport.

Possibility of hazardous reactions:
Material is stable under normal conditions.

Conditions to avoid:
Heat, flames and sparks. Temperature extremes and direct sunlight.

Incompatible materials:
Strong oxidizing agents. Strong acids. Strong Bases.

Hazardous decomposition products:
No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (mg/kg):

Calculated: 300 < LD50 =< 2000 mg/kg bw

Acute dermal toxicity (mg/kg):

Not classified

Acute inhalation toxicity (mg/L/4hr):

Not classified

Skin corrosion/irritation:

Skin Irritation - Cat. 2

Serious eye damage/eye irritation:

Eye Irritation - Cat. 2A

Respiratory or skin sensitization:

Skin Sensitization - Cat. 1

Mutagenicity:

Not classified

Reproductive toxicity:

Reproductive Toxicity - Cat. 2

Carcinogenicity:

Not classified

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity:

Acute - Cat. 1 | Chronic - Cat. 2

Persistence and Degradability:

No data available

Bioaccumulation:

No data available

Other Adverse Effects:

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal instructions:

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations:
Dispose in accordance with all applicable regulations.

Hazardous waste code:
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues/unused products:
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

Contaminated packaging:
Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

IATA UN Number:	3082
IATA UN Proper Shipping Name:	Environmentally hazardous substances, liquid, n.o.s. (Limonene)
IATA Transport Hazard Class:	9
IATA Packing group:	III
IATA Environmental Hazards:	Hazardous to the Environment
IMDG UN Number:	3082
IMDG UN Proper Shipping Name:	Environmentally hazardous substances, liquid, n.o.s. (Limonene)
IMDG Transport Hazard Class:	9
IMDG Packing Group:	III
IMDG Environmental Hazards:	Marine Pollutant

SECTION 15. REGULATORY INFORMATION

TSCA:

All components of this product are listed or excluded from listing on the TSCA inventory.

SECTION 16. OTHER INFORMATION

The information and recommendations contained in this data sheet represent, to the best of CandleScience's knowledge and belief, an accurate and reliable representation as the known data for this material. Since the conditions for use, handling, storage and disposal of this product are beyond CandleScience'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.