



Revision Number 1

# SAFETY DATA SHEET

Revision date 03-Dec-2018

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

### Product identifier

**Product name** LEMON T11026651

### Other means of identification

**Synonyms** No information available

### Recommended use of the chemical and restrictions on use

**Recommended use** Fragrances  
For industrial use only

### Details of the Supplier of the Safety Data Sheet

#### Supplier Address

Takasago International Corporation (USA)  
4 Volvo Drive  
Rockleigh, NJ 07647 USA  
Phone: 1-201-767-9001

### Emergency telephone number

**Company Phone Number** Health & Environmental: 1-201-767-9001 9 a.m - 5 p.m. EST M-F

### Emergency telephone number

CHEMTREC: 1-800-424-9300 24 hours Everyday  
CHEMTREC (International): 01-703-527-3887 [U.S.A.] 24 hours Everyday

## 2. Hazard identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 3
Skin corrosion/irritation	Category 2
Skin Sensitization	Category 1
Aspiration toxicity	Category 1

### Label Elements

#### Danger

#### Hazard Statements

Causes skin irritation  
May cause an allergic skin reaction  
May be fatal if swallowed and enters airways  
Flammable liquid and vapor



### Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection

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Avoid breathing dust/fume/gas/mist/vapors/spray  
 Contaminated work clothing should not be allowed out of the workplace  
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
 Keep container tightly closed  
 Ground/bond container and receiving equipment  
 Use explosion-proof electrical/ ventilating/ lighting/ equipment  
 Use only non-sparking tools  
 Take precautionary measures against static discharge

If skin irritation or rash occurs: Get medical advice/attention  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 Wash contaminated clothing before reuse  
 IF SWALLOWED: Immediately call a POISON CENTER or doctor  
 Do NOT induce vomiting  
 In case of fire: Use CO2, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store locked up  
 Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

Dispose of contents/containers in accordance with local regulations

**Hazards Not Otherwise Classified (HNOC)**

None known

**Other information**

**Other Hazards** None known

**Unknown acute toxicity** 1.6 % of the mixture consists of ingredient(s) of unknown toxicity

### 3. Composition/information on Ingredients

**Hazardous components** The identity of the individual components of this mixture is proprietary information and is regarded to be a trade secret. It is withheld in accordance with the provisions of 29 CFR 1910.1200.

### 4. First aid measures

**FIRST AID MEASURES**

**General advice** When in doubt or if symptoms are observed, get medical advice.

**Inhalation** Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

**Skin contact** Change contaminated, saturated clothing. After contact with skin, wash immediately with plenty of water and soap. In case of skin reactions, consult a physician.

**Eye contact** In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

**Ingestion** If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.

**Self-protection of the first aider** Use personal protection recommended in Section 8.

**Most Important Symptoms and Effects, Both Acute and Delayed**

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**Symptoms** No known symptoms to date.

**Indication of Any Immediate Medical Attention and Special Treatment Needed**

**Note to physicians** Treat symptomatically.

### 5. Fire-fighting measures

**Suitable extinguishing media**

Foam. Carbon dioxide (CO2). Dry extinguishing powder.

**Large Fire** Alcohol resistant foam. Water spray.

**Unsuitable extinguishing media** Full water jet.

**Special hazards arising from the substance or mixture**

In case of fire may be liberated, Carbon monoxide, Carbon dioxide (CO2), Burning produces heavy smoke, Do not inhale explosion and combustion gases.

**Protective equipment and precautions for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing. Use water spray jet to protect personnel and to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section 8. Remove all sources of ignition. Provide adequate ventilation as well as local exhaustion at critical locations. See section 7 for more information.

**For emergency responders** Use personal protection recommended in Section 8.

**Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure waste is collected and contained.

**Methods and material for containment and cleaning up**

**Methods for cleaning up** Clean contaminated surface thoroughly.

### 7. Handling and Storage

**Precautions for Safe Handling**

**Advice on safe handling** Avoid contact with skin, eyes or clothing. Wear protective gloves and eye/face protection. See Section 8 for information on appropriate personal protective equipment. Remove all sources of ignition. Provide adequate ventilation as well as local exhaustion at critical locations. Handle and open container with care.

**Conditions for safe storage, including any incompatibilities**

**Storage conditions** Keep container tightly closed in a cool, well-ventilated place. Store in a dry place. Protect from direct sunlight. Remove all sources of ignition. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

### 8. Exposure Controls/Personal Protection

**Control Parameters**

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This product contain(s) the following substance(s) with occupational exposure limits established by OSHA under 29 CFR 1910 subpart Z, ACGIH or NIOSH

	ACGIH OEL	OSHA PEL	NIOSH IDLH
PIN-2(10)-ENE 127-91-3	20 PPM (TWA)		
Citral 5392-40-5	5 PPM Inhalable fraction and vapor. (TWA)		
PIN-2(3)-ENE 80-56-8	20 PPM (TWA)		

**Appropriate Engineering Controls****Engineering controls**

Provide adequate ventilation as well as local exhaust at critical locations. Do not subject to unnecessarily high temperatures during processing.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Eye glasses with side protection.

**Hand protection**

Wear chemically resistant gloves in combination with 'basic' employee training.

**Skin and body protection**

Wear appropriate personal protective clothing to prevent skin contact.

**Respiratory protection**

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and after work. Do not eat, drink or smoke when using this product.

**FEMA Statement**

This product does not contain any substances at  $\geq 0.1\%$  listed as High Priority in Table 1 of the Flavor and Extract Manufacturers Association of the United States Respiratory Health and Safety in the Flavor Manufacturing Workplace (2012 edition)

This product does not contain any substances at  $\geq 1.0\%$  listed as Low Priority in Table 1 of the Flavor and Extract Manufacturers Association of the United States Respiratory Health and Safety in the Flavor Manufacturing Workplace (2012 edition)

## 9. Physical and Chemical Properties

**Information on basic physical and chemical properties****Appearance**

Liquid

**Color**

LIGHT YELLOW TO YELLOW

**Odor**

LEMON, GRAPEFRUIT, ORANGE, CITRUS BOUQUET

**Odor threshold**

No data available

**Property****VALUES****Remarks • Method****pH**

No data available

**Melting point / freezing point**

No data available

**Boiling point / boiling range**

No data available

**Flash point**

48.9 °C / 120 °F

CC (closed cup), ASTM D93 equivalent

**Evaporation rate**

No data available

**Flammability (solid, gas)****Flammability limit in air****Upper flammability limit**

No data available

**Lower flammability limit**

No data available

**Vapor pressure**

1.177 mmHg@20°C (calculated)

**Vapor density**

No data available

**Relative Density**

No data available

**Relative Density**

0.8450 - 0.8550 (D25°C/25°C)

**Water solubility**

No data available

**Solubility in other solvents**

No data available

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**Partition coefficient: n-octanol/water** No data available  
**Autoignition temperature** No data available  
**Decomposition temperature** No data available  
**Kinematic viscosity** No data available  
**Dynamic viscosity** No data available  
**Explosive Properties** No data available  
**Oxidizing Properties** No data available

**Other information**

**Refractive Index** 1.4670 - 1.4770 (n<sub>25°C/D</sub>)

## 10. Stability and Reactivity

**Reactivity**

None under normal use conditions.

**Chemical stability**

Stable under normal conditions. Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Conditions to avoid**

Extremes of temperature and direct sunlight. Do not heat closed containers.

**Incompatible materials**

Strong oxidizing agents. Strong acids. Strong bases.

**Hazardous decomposition products**

None under normal use.

## 11. Toxicological Information

**Information on Likely Routes of Exposure**

**Product Information** No data available.  
**Inhalation** No data available.  
**Eye contact** No data available.  
**Skin contact** No data available.  
**Ingestion** No data available.

**Information on Toxicological Effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** This product contains the following substance(s) listed as carcinogens or potential carcinogens by OSHA, IARC or NTP.

	IARC	NTP	OSHA
7-METHYL-3-METHYLENEOCTA-1,6-DIENE	2B Possibly carcinogenic to humans.	-	-

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123-35-3			
<b>Reproductive toxicity</b>	No information available.		
<b>Specific target organ toxicity - Single exposure</b>	No information available.		
<b>Specific target organ toxicity - Repeated exposure</b>	No information available.		
<b>Aspiration hazard</b>	No information available.		

#### Numerical Measures of Toxicity - Product Information

**Unknown acute toxicity** 1.6 % of the mixture consists of ingredient(s) of unknown toxicity  
**The following values are calculated based on chapter 3.1 of the GHS document .**  
**ATEmix (oral)** 4203 mg/kg  
**ATEmix (dermal)** 5091 mg/kg

### 12. Ecological Information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.  
**Persistence and degradability** No information available.  
**Bioaccumulative potential** No information available  
**Other adverse effects** No information available

### 13. Disposal Considerations

#### Waste Treatment Methods

**Waste disposal method** Dispose of in accordance with local regulations.  
**Contaminated packaging** Do not reuse container.

### 14. Transport Information

#### DOT Non-bulk Packaging

**UN/ID no** Not regulated  
**Proper Shipping Name** Not regulated  
**Hazard Class** Not regulated  
**Packing group** Not regulated  
**Marine Pollutant** Not regulated

#### Air transport (ICAO-TI / IATA-DGR)

**UN/ID no** 1169  
**Proper Shipping Name** Extracts, aromatic, liquid  
**Hazard Class** 3  
**Packing group** III

#### Sea transport (IMDG)

**UN/ID no** 1169  
**Proper Shipping Name** Extracts, aromatic, liquid  
**Hazard Class** 3  
**Packing group** III  
**EmS No** F-E, S-D  
**Marine Pollutant** Yes

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This propriety mixture does not contain any chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372

**SARA 311/312 Hazardous Categorization -**

<b>Acute health hazard</b>	Yes
<b>Chronic health hazard</b>	No
<b>Fire hazard</b>	Yes
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

**16. Other Information****Revision date** 03-Dec-2018

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Where the handling, storage and disposal of this material is beyond the immediate control of Takasago, it shall be the user's responsibility to determine safe conditions for use of this product. The user assumes all liability for loss, injury, damage or expense resulting from the improper use of this product.

**End of Safety Data Sheet**