

# SAFETY DATA SHEET

## 1. Identification

|   |   |                        |
|---|---|------------------------|
| <b>Product identifier</b>                                     | <b>AL215076 SALTED CARAMEL Fragrance</b>                    |                        |
| <b>Other means of identification</b>                          |   |                        |
| <b>Product Code</b>   | AL215076  |                        |
| <b>Recommended use</b>  | Not available.  |                        |
| <b>Recommended restrictions</b>                               | None known.   |                        |
| <b>Manufacturer/Importer/Supplier/Distributor information</b> |   |                        |
| <b>Manufacturer</b>   |   |                        |
| <b>Company name</b>   | Arylessence, Inc.   |                        |
| <b>Address</b>  | 1091 Lake Drive<br>Marietta, GA 30066-1073<br>United States |                        |
| <b>Telephone</b>  | General Assistance  | 770-924-3775           |
| <b>E-mail</b>   | regulatory2@arylessence.com                                 |                        |
| <b>Emergency phone number</b>                                 | for shipping/transportation                                 | spill emergencies only |
|   | InfoTrac (International)                                    | 352-323-3500           |
|   | InfoTrac (International)                                    | 352-323-3500           |

## 2. Hazard(s) identification

### Classification According to 29 CFR 1910.1200

|  |  |            |
|--|--|------------|
| <b>Physical hazards</b>                          | Flammable liquids                                      | Category 4 |
| <b>Health hazards</b>                            | Acute toxicity, oral                                   | Category 4 |
|  | Serious eye damage/eye irritation                      | Category 2 |
|  | Sensitization, skin                                    | Category 1 |
| <b>Environmental hazards</b>                     | Hazardous to the aquatic environment, acute hazard     | Category 1 |
|  | Hazardous to the aquatic environment, long-term hazard | Category 2 |
| <b>OSHA defined hazards</b>                      | Not classified.  |            |
| <b>Hazard(s) not otherwise classified (HNOC)</b> | Not classified.  |            |

### Label elements



|                                |  |
|--------------------------------|--|
| <b>Signal word</b>             | Warning  |
| <b>Hazard statement</b>        | Combustible liquid. Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye irritation. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.   |
| <b>Precautionary statement</b> |  |
| <b>Prevention</b>              | Keep away from flames and hot surfaces-No smoking. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/eye protection/face protection.  |
| <b>Response</b>                | If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage. |
| <b>Storage</b>                 | Store in a well-ventilated place. Keep cool.   |
| <b>Disposal</b>                | Dispose of contents/container in accordance with local/regional/national/international regulations.  |

**Hazard(s) not otherwise classified (HNOC)** None known.

**Supplemental information** None.

### 3. Composition/information on ingredients

#### Mixtures

| Chemical name                            | Common name and synonyms | CAS number | %    |
|--|--------------------------|------------|------|
| BENZYL BENZOATE                          |                          | 120-51-4   | 51   |
| ETHYL VANILLIN                           |                          | 121-32-4   | 8    |
| OMEGA-PENTADECALACTONE                   |                          | 106-02-5   | 5    |
| METHYLCYCLOPENTENOLONE                   |                          | 80-71-7    | 3    |
| COUMARIN                                 |                          | 91-64-5    | 2.4  |
| LEMON TERPENES                           |                          | 68917-33-9 | 2.4  |
| ALLYL HEXANOATE                          |                          | 123-68-2   | 2    |
| ETHYL MALTOL                             |                          | 4940-11-8  | 2    |
| DELTA-DECALACTONE                        |                          | 705-86-2   | 1.8  |
| CITRAL                                   |                          | 5392-40-5  | 1.6  |
| PIPERONAL                                |                          | 120-57-0   | 1.6  |
| ETHYL BUTYRATE                           |                          | 105-54-4   | 1    |
| ACETYL PROPIONYL                         |                          | 600-14-6   | 0.2  |
| LAURIC ALDEHYDE                          |                          | 112-54-9   | 0.1  |
| Other components below reportable levels |                          |            | 17.9 |

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

|   |  |
|---|--|
| <b>Inhalation</b>   | Move to fresh air. Call a physician if symptoms develop or persist.  |
| <b>Skin contact</b>   | Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.                                   |
| <b>Eye contact</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.                |
| <b>Ingestion</b>  | Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.  |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash.   |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.   |
| <b>General information</b>  | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. |

### 5. Fire-fighting measures

|  |  |
|--|--|
| <b>Suitable extinguishing media</b>                                  | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).   |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.   |
| <b>Specific hazards arising from the chemical</b>                    | The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed. |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.  |
| <b>Fire fighting equipment/instructions</b>                          | In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.   |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials.   |
| <b>General fire hazards</b>  | Combustible liquid.  |

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

### Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

### Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

### Precautions for safe handling

Keep away from open flames, hot surfaces and sources of ignition. Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

### Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### US ACGIH Threshold Limit Values

| Components             | Type | Value | Form                          |
|------------------------|------|-------|-------------------------------|
| CITRAL (CAS 5392-40-5) | TWA  | 5 ppm | Inhalable fraction and vapor. |

### Biological limit values

No biological exposure limits noted for the ingredient(s).

### Exposure guidelines

#### US ACGIH Threshold Limit Values: Skin designation

CITRAL (CAS 5392-40-5)

Can be absorbed through the skin.

### Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear safety glasses with side shields (or goggles).

#### Skin protection

##### Hand protection

Wear appropriate chemical resistant gloves.

##### Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

#### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

#### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

**9. Physical and chemical properties****Appearance**

|   |                               |
|---|-------------------------------|
| <b>Physical state</b>                               | Liquid.                       |
| <b>Form</b>   | Liquid.                       |
| <b>Color</b>  | YELLOW TO YELLOW-ORANGE       |
| <b>Odor</b>   | Sweet                         |
| <b>Odor threshold</b>                               | Not available.                |
| <b>pH</b>   | Not available.                |
| <b>Melting point/freezing point</b>                 | Not available.                |
| <b>Initial boiling point and boiling range</b>      | Not available.                |
| <b>Flash point</b>                                  | 147.0 °F (63.9 °C) Closed Cup |
| <b>Evaporation rate</b>                             | Not available.                |
| <b>Flammability (solid, gas)</b>                    | Not applicable.               |
| <b>Upper/lower flammability or explosive limits</b> |                               |
| <b>Flammability limit - lower (%)</b>               | Not available.                |
| <b>Flammability limit - upper (%)</b>               | Not available.                |
| <b>Explosive limit - lower (%)</b>                  | Not available.                |
| <b>Explosive limit - upper (%)</b>                  | Not available.                |
| <b>Vapor pressure</b>                               | Not available.                |
| <b>Vapor density</b>                                | Not available.                |
| <b>Relative density</b>                             | Not available.                |
| <b>Solubility(ies)</b>                              |                               |
| <b>Solubility (water)</b>                           | Insoluble                     |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.                |
| <b>Auto-ignition temperature</b>                    | Not available.                |
| <b>Decomposition temperature</b>                    | Not available.                |
| <b>Viscosity</b>                                    | Not available.                |
| <b>Other information</b>                            |                               |
| <b>Explosive properties</b>                         | Not explosive.                |
| <b>Oxidizing properties</b>                         | Not oxidizing.                |
| <b>Refractive index</b>                             | 1.53                          |
| <b>Specific gravity</b>                             | 1.056 - 1.076 @25C            |
| <b>VOC (Weight %)</b>                               | Not available.                |

**10. Stability and reactivity**

|   |  |
|---|--|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport.  |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.  |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.  |
| <b>Conditions to avoid</b>                | Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| <b>Incompatible materials</b>             | Strong oxidizing agents.   |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.   |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |                                      |
|---------------------|--------------------------------------|
| <b>Inhalation</b>   | Prolonged inhalation may be harmful. |
| <b>Skin contact</b> | May cause an allergic skin reaction. |
| <b>Eye contact</b>  | Causes serious eye irritation.       |
| <b>Ingestion</b>    | Harmful if swallowed.                |

**Symptoms related to the physical, chemical and toxicological characteristics** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash.

### Information on toxicological effects

**Acute toxicity** Harmful if swallowed.

| Components | Species | Test Results |
|------------|---------|--------------|
|------------|---------|--------------|

BENZYL BENZOATE (CAS 120-51-4)

#### Acute

##### **Dermal**

|      |     |            |
|------|-----|------------|
| LD50 | Rat | 4000 mg/kg |
|------|-----|------------|

##### **Oral**

|      |     |            |
|------|-----|------------|
| LD50 | Rat | 1700 mg/kg |
|------|-----|------------|

CITRAL (CAS 5392-40-5)

#### Acute

##### **Dermal**

|      |     |              |
|------|-----|--------------|
| LD50 | Rat | > 2000 mg/kg |
|------|-----|--------------|

PIPERONAL (CAS 120-57-0)

#### Acute

##### **Oral**

|      |     |            |
|------|-----|------------|
| LD50 | Rat | 2700 mg/kg |
|------|-----|------------|

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation** Causes serious eye irritation.

### Respiratory or skin sensitization

#### **ACGIH sensitization**

CITRAL, INHALABLE FRACTION AND VAPOR (CAS 5392-40-5) Dermal sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

#### **IARC Monographs. Overall Evaluation of Carcinogenicity**

COUMARIN (CAS 91-64-5) 3 Not classifiable as to carcinogenicity to humans.

#### **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

#### **US. National Toxicology Program (NTP) Report on Carcinogens**

Not listed.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

## 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

**Persistence and degradability** No data is available on the degradability of any ingredients in the mixture.

### Bioaccumulative potential

#### Partition coefficient n-octanol / water (log Kow)

|                 |      |
|-----------------|------|
| BENZYL BENZOATE | 3.97 |
| COUMARIN        | 1.39 |
| ETHYL BUTYRATE  | 1.73 |
| ETHYL VANILLIN  | 1.61 |
| PIPERONAL       | 1.05 |

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 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 (see: Disposal instructions).

**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.

## 14. Transport information

### DOT

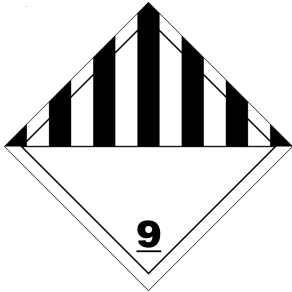
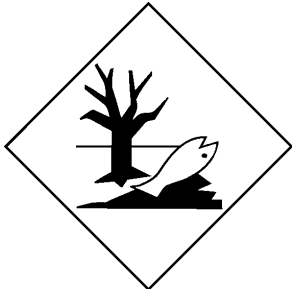
|                                     |   |
|-------------------------------------|---|
| <b>UN number</b>                    | UN3082  |
| <b>UN proper shipping name</b>      | Environmentally hazardous substances, liquid, n.o.s.                    |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | 9   |
| <b>Subsidiary risk</b>              | -   |
| <b>Label(s)</b>                     | 9   |
| <b>Packing group</b>                | III   |
| <b>Environmental hazards</b>        |   |
| <b>Marine pollutant</b>             | Yes   |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |
| <b>Special provisions</b>           | 8, 146, 335, IB3, T4, TP1, TP29   |
| <b>Packaging exceptions</b>         | 155   |
| <b>Packaging non bulk</b>           | 203   |
| <b>Packaging bulk</b>               | 241   |

### IATA

|                                     |   |
|-------------------------------------|---|
| <b>UN number</b>                    | UN3082  |
| <b>UN proper shipping name</b>      | Environmentally hazardous substance, liquid, n.o.s.                     |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | 9   |
| <b>Subsidiary risk</b>              | -   |
| <b>Packing group</b>                | III   |
| <b>Environmental hazards</b>        | Yes   |
| <b>ERG Code</b>                     | 9L  |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |
| <b>Other information</b>            |   |
| <b>Passenger and cargo aircraft</b> | Allowed with restrictions.  |
| <b>Cargo aircraft only</b>          | Allowed with restrictions.  |

**IMDG**

**UN number** UN3082  
**UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
**Transport hazard class(es)**  
**Class** 9  
**Subsidiary risk** -  
**Packing group** III  
**Environmental hazards**  
**Marine pollutant** Yes  
**EmS** F-A, S-F  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.  
**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

**DOT; IATA; IMDG****Marine pollutant**

**General information** IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

**15. Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard - Yes  
 Delayed Hazard - No  
 Fire Hazard - Yes  
 Pressure Hazard - No  
 Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**

PIPERONAL (CAS 120-57-0) 20 %WV

**DEA Exempt Chemical Mixtures Code Number**

PIPERONAL (CAS 120-57-0) 8750

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

ACETYL PROPIONYL (CAS 600-14-6) High priority

**US state regulations** California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.**US. California Proposition 65**

Not Listed.

**16. Other information, including date of preparation or last revision**

**Issue date** 02-20-2018  
**Version #** 01  
**HMIS® ratings** Health: 2  
Flammability: 2  
Physical hazard: 0  
Personal protection: D

**Disclaimer** To the best of our knowledge, the information provided in the Safety Data Sheet is accurate. It is intended to assist the user in his evaluation of the product's hazards, and safety precautions to be taken in its use. The data on this SDS relates only to the specific material designated herein. It is consistent with the state of general scientific and technical knowledge and should be used in accordance with professional guidelines. Arylessence, Inc. assumes no legal responsibility for use or reliance upon this data. See SDS for additional information.