

Version: 5.0

Revision date: 01/01/2025

Product Name: DIACETYL SYNTHETIC FCC

## **Section 1: Identification of the Substance/Mixture and of the Company**

### **Product identifier**

Product Name DIACETYL SYNTHETIC FCC

Product Number 772-2005

### **Relevant identified use of the substance/mixture and uses advised against**

Use of Substance/Mixture Flavor agent.

### **Details of supplier of the SDS**

Company O'Laughlin Corporation Limited

Address Suite 903, The Chinese Bank Building, 61-65 Des Voeux Road, Central, Hong Kong

Telephone (852) 2527 1031

Fax (852) 2529 0231

Website [www.olaughlinco.com](http://www.olaughlinco.com)

### **Emergency telephone number**

(852) 2527 1031

## **Section 2: Hazards Identification**

### **Classification of the substance or mixture**

#### **Classification according to Regulation (EC) No 1272/2008**

Flammable liquids, Category 2, H225

Acute toxicity – oral, Category 4, H302

Skin corrosion/irritation, Category 2, H315

Sensitisation – skin, Category 1, H317

Serious eye damage/eye irritation, Category 1, H318

Acute toxicity, inhalation, Category 3, H331

Specific target organ toxicity, repeated exposure, Category 2, H373

Hazardous to the aquatic environment, acute hazard, Category 3, H402

### **Labelling elements**

#### **Labelling according to Regulation (EC) No 1272/2008**



### **Pictogram**

**Signal word**      **Danger**

### **Hazard Statement**

H225 - Flammable liquid and vapor.

H302 - Harmful if swallowed.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H331 - Toxic if inhaled.

**website:** [www.olaughlinco.com](http://www.olaughlinco.com)



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H373 - Causes damage to organs through prolonged or repeated exposure.

H402 - Toxic to the aquatic life.

### **Precautionary statement**

#### **Prevention**

P210 - Keep away from heat/ sparks/ open flames/ hot surfaces. 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.

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 - Wash ... thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.

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

P273 - Avoid release to the environment.

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

#### **Response**

P301, P312 - If swallowed, call a POISON CENTER or doctor/ physician IF you feel unwell.

P302, P352 - If on skin, wash with plenty of soap and water.

P303, P361, P353 - If on skin (or hair), remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304, P340 - If inhaled: Remove person to fresh air and keep comfortable to breathe.

P305, P351, P338 - 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.

P314 - Get medical advice/ attention if you feel unwell.

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

P330 - Rinse mouth.

P332, P313 - If skin irritation occurs: Get medical advice/ attention.

P333, P313 - If skin irritation or rash occurs: Get medical advice/ attention.

P337, P313 - If eye irritation persists: Get medical advice/ attention.

P362, P364 - Take off contaminated clothing and wash it before reuse.

P370, P378 - In case of fire: Use ... for extinction.

#### **Storage**

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

#### **Disposal**

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

**Hazards Not Otherwise Classified** No information available

**Supplemental Hazard Information** No information available

### **Section 3: Composition/information on ingredients**

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| Substance Name | DIACETYL SYNTHETIC FCC (BUTANEDIONE) |
|----------------|--------------------------------------|
| CAS Number     | 431-03-8                             |
| EC Number      | 207-069-8                            |
| % (w/w)        | 100                                  |

Remarks: The rest unspecified ingredients are impurities, and they are not hazard.

## Section 4: First Aid Measures

### Description of first aid measures

- Skin contact** Wash off with soap and plenty of water. Consult a physician.
- Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- Ingestion** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
- Inhalation** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### General information

Consult a physician. Show this safety data sheet to the doctor in attendance.

**Indication of any immediate medical and special treatment needed:** No information available.

## Section 5: Fire-fighting Measures

### Flammable properties

Flash point <10 °C

### Firefighting

- Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguish media Do not use a solid water stream as it may scatter and spread fire.

### Protective equipment and precautions for firefighters

- Specific hazards during firefighting Carbon oxides.
- Specific protective equipment for firefighters Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighter's protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full-face piece operated in the positive pressure demand mode when fighting fires.
- Specific methods Use water spray to cool unopened containers
- General fire hazards** Static charges generated by emptying package in or near flammable vapor may cause flash fire.

## Section 6: Accidental Release Measures

- Personal precautions** Avoid inhalation and contact with skin and eyes. A self- container breathing apparatus is recommended in case of a major spill. Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.



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**Environmental precautions**

Keep away from drains, surface and groundwater and soil.

**Methods for cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

### **Section 7: Handling and Storage**

**Storage**

No open flames, sparks and smoking. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature 2 - 8°C. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Handling**

Avoid formation of aerosol. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure.

**Specific end use(s)**

No information available.

### **Section 8: Exposure Controls/Personal Protection**

**Control parameters:** Components with workplace control parameters.

**Exposure controls**

**Appropriate engineering controls**

Use explosion-proof ventilation equipment to stay below exposure limits.

**Personal protective equipment**

**Eye/face protection**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Hand protection**

Type of gloves recommended: Butyl rubber. Minimum breakthrough time / gloves: 480 min. Minimum thickness / gloves 0.11 mm.

**Body protection**

Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Thermal hazards**

Wear suitable protective clothing to prevent heat.

**Environmental exposure controls**

Avoid discharge into the environment. According to local regulations, Federal and official regulations.

**Industrial hygiene:**

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.

### **Section 9: Physical and Chemical Properties**

**Appearance**

Yellow to yellowish green liquid.



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|                           |                                                         |
|---------------------------|---------------------------------------------------------|
| Odor                      | Sweet, strongly buttery, creamy, milky odor and flavor. |
| Flash point               | <10 °C                                                  |
| Density                   | 0.978 - 0.988 at 25 °C                                  |
| Refractive Index          | 1.393 - 1.397 at 20 °C                                  |
| Vapor Pressure            | 56.8000 mm/Hg at 25°C                                   |
| Solubility (ies)          | Soluble in water, ethanol and ether.                    |
| Auto ignition temperature | No information available.                               |
| Viscosity                 | No information available.                               |

### **Section 10: Stability and Reactivity**

|                                    |                                                                     |
|------------------------------------|---------------------------------------------------------------------|
| Reactivity                         | Stable under recommended storage temperatures and proper pressures. |
| Chemical stability                 | Stable under recommended storage conditions in closed containers.   |
| Possibility of hazardous reactions | No hazardous reactions known.                                       |
| Conditions to avoid                | Incompatible materials, heat, sparks, flames.                       |
| Incompatible materials             | Strong oxidizing agents, strong bases, mineral acids.               |
| Hazardous decomposition products   | No information available.                                           |

### **Section 11: Toxicological Information**

#### Information on likely routes of exposure:

|              |                                                              |
|--------------|--------------------------------------------------------------|
| Inhalation   | May cause irritation to the respiratory system.              |
| Skin contact | May be harmful in contact with skin. Causes skin irritation. |
| Eye contact  | Causes serious eye irritation. Causes mild eye irritation.   |
| Ingestion    | May be harmful if swallowed.                                 |

#### Information on toxicological effects:

|                          |                                                                                                                                             |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Oral/Parenteral Toxicity | LD50 Gavage-rat, 1580 mg/kg<br>LD50 Gavage-guinea pig, 990 mg/kg<br>LD50 Intraperitoneal-rat, 400 mg/kg                                     |
| Dermal Toxicity          | LD50 Rabbit, > 5000 mg/kg                                                                                                                   |
| Germ cell mutagenicity   | No information available.                                                                                                                   |
| Carcinogenicity          |                                                                                                                                             |
| OSHA                     | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. |
| IARC                     | No information available.                                                                                                                   |
| ACGIH                    | No information available.                                                                                                                   |
| NTP                      | No information available.                                                                                                                   |
| Reproductive toxicity    | No information available.                                                                                                                   |
| TOST - single exposure   | No information available.                                                                                                                   |
| TOST - repeated exposure | No information available.                                                                                                                   |
| Aspiration hazard        | No information available.                                                                                                                   |

### **Section 12: Ecological Information**

|              |                           |
|--------------|---------------------------|
| Eco toxicity | No information available. |
|--------------|---------------------------|



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|                                           |                           |
|-------------------------------------------|---------------------------|
| <b>Persistence and degradability</b>      | No information available. |
| <b>Bio accumulative potential</b>         | No information available. |
| <b>Mobility in soil</b>                   | No information available. |
| <b>Results of PBT&amp;vPvB assessment</b> | No information available. |
| <b>Other adverse effects</b>              | No information available. |

### Section 13: Disposal Considerations

|                                            |                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Disposal instructions</b>               | Do not discharge into drains, water course or onto the ground. 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. |
| <b>Local disposal regulations</b>          | Dispose in accordance with all applicable regulations.                                                                                                                                                                                                                                                                 |
| <b>Hazardous water code</b>                | No information available.                                                                                                                                                                                                                                                                                              |
| <b>Waste from residues/unused products</b> | Empty containers or liner may retain some product residues. This material and its container must be disposed of in a safe manner.                                                                                                                                                                                      |
| <b>Contaminated packaging</b>              | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.                                                                                                             |

### Section 14: Transport Information

|                              | ADN         | ADR | RID | DOT BULK | DOT NON-BULK | IATA | IMDG |
|------------------------------|-------------|-----|-----|----------|--------------|------|------|
| <b>UN Number</b>             | 2346        |     |     |          |              |      |      |
| <b>Shipping Name</b>         | BUTANEDIONE |     |     |          |              |      |      |
| <b>Hazard Class</b>          | 3           |     |     |          |              |      |      |
| <b>Packing group</b>         | II          |     |     |          |              |      |      |
| <b>Environmental Hazards</b> | None        |     |     |          |              |      |      |

### Section 15: Regulatory Information

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

|                                                               |               |
|---------------------------------------------------------------|---------------|
| CERCLA Hazards Substance List (40 CFR 302.4)                  | Not listed    |
| OSHA Specifically Regulated Substance (29 CFR 1910.1001-1050) | Not listed    |
| SARA 302 Extremely hazardous substances                       | Not listed    |
| SARA 311/312 Hazard Chemical                                  | Not listed    |
| SARA 313 (TRI reporting)                                      | Not regulated |

#### Other federal regulations

|                                                                   |               |
|-------------------------------------------------------------------|---------------|
| CAA Section 112 Hazardous Air Pollutant List                      | Not regulated |
| CAA Section 112 (r) Accidental Release Prevention (40 CFR 68.130) | Not regulated |
| Safe Drinking Water Act (SDWA)                                    | Not regulated |



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### US State regulations

|                                                         |               |
|---------------------------------------------------------|---------------|
| US. Massachusetts RTK-Substance List                    | Not listed    |
| US. New Jersey Worker and Community Right-to-Know Act   | Not regulated |
| US. Pennsylvania Worker and Community Right-to-Know Law | Not listed    |
| US. Rhode Island RTK                                    | Not regulated |
| US. California Proposition 65                           | Not listed    |

### International Inventories

| Country or region  | Inventory name        | On inventory (yes/no) |
|--------------------|-----------------------|-----------------------|
| Australia          | AICS                  | Yes                   |
| Canada             | DSL                   | Yes                   |
| Canada             | NDSL                  | No                    |
| China              | IECSC                 | Yes                   |
| Europe             | EINECS                | Yes                   |
| Europe             | ELINCS                | No                    |
| Japan              | ENCS                  | Yes                   |
| Korea              | ECL                   | Yes                   |
| New Zealand        | New Zealand Inventory | Yes                   |
| Philippines        | PICCS                 | Yes                   |
| US and Puerto Rico | TSCA                  | Yes                   |

### **Section 16: Other Information**

#### **Revision Information**

Date of this version: Jan.1, 2025

#### **Declaration to Reader**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. O'Laughlin Corporation Limited, shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.