

Version: 5.0

Revision date: 11/01/2023

Product Name: Acetaldehyde

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

### **Product identifier**

|                |              |
|----------------|--------------|
| Product Name   | Acetaldehyde |
| Product Number | 771-2001     |

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

|                          |  |
|--------------------------|--|
| Use of Substance/Mixture | Cosmetic and flavor agents, not for fragrance use. |
|--------------------------|--|

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

|           |   |
|-----------|---|
| Company   | O'Laughlin Corporation Limited  |
| Address   | Suite 1704 Chinachem Tower 34 – 37 Connaught Road, Central, Hong Kong |
| Telephone | (852) 2527 1031   |
| Fax       | (852) 2529 0231   |
| Website   | 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 1, H224

Acute toxicity – oral, Category 4, H302

Serious eye damage/eye irritation, Category 2, H319

Specific target organ toxicity, single exposure; Respiratory tract irritation, Category 3, H335

Germ cell mutagenicity, Category 2, H341

Carcinogenicity, Category 1B, H350

### **Labelling elements**

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



### **Pictogram**

**Signal word**      **Danger**

### **Hazard Statement**

H224 -Extremely flammable liquid and vapor.

H302-Harmful if swallowed.

H319-Causes serious eye irritation.

H335-May cause respiratory irritation;

H341-Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H350-May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

### **Precautionary statement**

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



## Safety Data Sheet

Version: 5.0

Revision date: 11/01/2023

Product Name: Acetaldehyde

### Prevention

P210-Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P281-Use personal protective equipment as required.

### Response

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/attention.

### Storage

P403+P233-Store in a well-ventilated place. Keep container tightly closed.

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

P405-Store locked up.

### 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

| Substance Name | Acetaldehyde |
|----------------|--------------|
| CAS Number     | 75-07-0      |
| EC Number      | 200-836-8    |
| % (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 -40 °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.

Version: 5.0

Revision date: 11/01/2023

Product Name: Acetaldehyde

## 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   |
| <b>General fire hazards</b>                    | Static charges generated by emptying package in or near flammable vapor may cause flash fire.   |

## Section 6: Accidental Release Measures

|                                  |  |
|----------------------------------|--|
| <b>Personal precautions</b>      | Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8. |
| <b>Environmental precautions</b> | Do not let product enter drains.   |
| <b>Methods for cleaning up</b>   | Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.   |

## Section 7: Handling and Storage

|                            |   |
|----------------------------|---|
| <b>Storage</b>             | Use the Nitrogen-material container, and keep the temperature under 5-7°C, keep from contact with oxidizing materials. Keep away from strong acids. |
| <b>Handling</b>            | Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Normal measures for preventive fire protection.                                |
| <b>Specific end use(s)</b> | No information available.   |

## Section 8: Exposure Controls/Personal Protection

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

### Exposure controls

|   |  |
|---|--|
| <b>Appropriate engineering controls</b> | Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. |
|---|--|

### Personal protective equipment

|                            |  |
|----------------------------|--|
| <b>Eye/face protection</b> | 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). |
| <b>Hand protection</b>     | Type of gloves recommended: Butyl rubber. Minimum breakthrough time / gloves: 480 min. Minimum thickness / gloves 0.11 mm.   |
| <b>Body protection</b>     | Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.             |

Version: 5.0

Revision date: 11/01/2023

Product Name: Acetaldehyde

**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**

|                                  |                           |
|----------------------------------|---------------------------|
| <b>Appearance</b>                | Colorless liquid.         |
| <b>Odor</b>                      | Stimulating odor.         |
| <b>Flash point</b>               | -40 °C                    |
| <b>Boiling point</b>             | 21 °C at 760 mm Hg        |
| <b>Specific Gravity</b>          | 0.804-0.824 at 20°C       |
| <b>Refractive Index</b>          | 1.3315-1.3515 at 20°C     |
| <b>Explosion lower limit</b>     | 0.7 Vol %                 |
| <b>Explosion upper limit</b>     | 57.0 Vol %                |
| <b>Vapor pressure</b>            | 902.000 mm/Hg at 25 °C    |
| <b>Solubility (ies)</b>          | Insoluble in water.       |
| <b>Auto ignition temperature</b> | No information available. |
| <b>Viscosity</b>                 | No information available. |

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

|   |   |
|---|---|
| <b>Reactivity</b>                         | Stable under normal temperatures and pressures.   |
| <b>Chemical stability</b>                 | Stable at room temperature in closed containers under normal storage and handling conditions. |
| <b>Possibility of hazardous reactions</b> | No hazardous reactions known.   |
| <b>Conditions to avoid</b>                | No information available.   |
| <b>Incompatible materials</b>             | Strong oxidizing agents, strong bases, mineral acids.   |
| <b>Hazardous decomposition products</b>   | No information available.   |

## **Section 11: Toxicological Information**

**Information on likely routes of exposure**

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | No adverse effects due to inhalation are expected.       |
| <b>Skin contact</b> | Causes skin irritation.                                  |
| <b>Eye contact</b>  | Direct contact with eyes may cause temporary irritation. |



## Safety Data Sheet

Version: 5.0

Revision date: 11/01/2023

Product Name: Acetaldehyde

### Ingestion

Expected to be a low ingestion hazard.

### Information on toxicological effects

#### Oral/Parenteral Toxicity

LD50(Oral, Rat) 2.360 g/kg

LDLo (intraperitoneal, Rat) 500 mg/kg

LDLo (intravenous, Rabbit) 300 mg/kg

LD50 (Oral, Mouse) 900 mg/kg

LD50 (intraperitoneal, Mouse) 500 mg/kg

LDLo (intravenous, Frog) 800 mg/kg

LD50 (intratracheal, Hamster) 96 mg/kg

#### Dermal Toxicity

LD50 (Skin, Rabbit) 3540 mg/kg

LD50 (Subcutaneous, Rat) 640 mg/kg

LDLo (Subcutaneous, Rabbit) 1200 mg/kg

LD50 (Subcutaneous, Mouse) 560 mg/kg

#### Inhalation Toxicity

LC50(Inhalation, Hamster) 17000 ppm/4H

LC50(Inhalation, Mammal) 20100 mg/m<sup>3</sup>

LC50(Inhalation, Mouse) 23000 mg/m<sup>3</sup>/4H

TCLo (Inhalation, Human) 134 ppm/30M

LC50(Inhalation, Rat) 13300 ppm/4H

**Skin corrosion/Irritation** Irritant to skin and mucous membranes.

**Serious eye damage/irritation** Irritating effect.

**Skin sensitization** Sensitization possible through skin contact

**Carcinogenicity** CAS NO 75-07-0: 1

**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 component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**ACGIH** 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.

**NTP** 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.

**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** Very toxic for fish.

**Persistence and degradability** No information available.

**Bio accumulative potential** No information available.



# Safety Data Sheet

Version: 5.0

Revision date: 11/01/2023

Product Name: Acetaldehyde

**Mobility in soil** No information available.

**Results of PBT&vPvB assessment** No information available.

**Other adverse effects** No information available.

## Section 13: Disposal Considerations

**Disposal instructions** 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.

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

**Hazardous water code** No information available.

**Waste from residues/unused products** Empty containers or liner may retain some product residues. This material and its container must be disposed of in a safe manner.

**Contaminated packaging** 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>             | 1089                                    |     |     |          |              |      |      |
| <b>Shipping Name</b>         | Acetaldehyde, ENVIRONMENTALLY HAZARDOUS |     |     |          |              |      |      |
| <b>Hazard Class</b>          | 3                                       |     |     |          |              |      |      |
| <b>Packing group</b>         | I                                       |     |     |          |              |      |      |
| <b>Environmental Hazards</b> | Yes                                     |     |     |          |              |      |      |

## 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 Listed

SARA 313 (TRI reporting) Not regulated

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

Carcinogenic category

EPA CAS NO 75-07-0 Acetaldehyde : B2

TLV CAS NO 75-07-0 Acetaldehyde : A3

NIOSH-cA CAS NO 75-07-0 Acetaldehyde

US. California Proposition 65 CAS NO: 75-07-0 Acetaldehyde: listed.

**Other federal regulations**



## Safety Data Sheet

Version: 5.0

Revision date: 11/01/2023

Product Name: Acetaldehyde

|   |               |
|---|---------------|
| 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 |

### 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 11, 2023

#### **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.