



Version: 2.0
Revision date: 01/01/2025

Safety Data Sheet

Product Name: ACETALDEHYDE

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

Product identifier

Product Name	ACETALDEHYDE
Product Number	772-3306

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

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

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



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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.



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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	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.
Environmental precautions	Do not let product enter drains.
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	Use the Nitrogen-material container, and keep the temperature under 5-7°C, keep from contact with oxidizing materials. Keep away from strong acids.
Handling	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Normal measures for preventive fire protection.
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	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
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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.



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Respiratory protection

Thermal hazards

Environmental exposure controls

Industrial hygiene:

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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).

Wear suitable protective clothing to prevent heat.

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

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	Colorless liquid.
Odor	Stimulating odor.
Flash point	-40 °C
Boiling point	21 °C at 760 mm Hg
Specific Gravity	0.804-0.824 at 20 °C
Refractive Index	1.3315-1.3515 at 20 °C
Explosion lower limit	4.0 Vol %
Explosion upper limit	57.0 Vol %
Vapor pressure	902.000 mm/Hg at 25 °C
Solubility (ies)	Insoluble in water.
Auto ignition temperature	175 °C
Viscosity	No information available.

Section 10: Stability and Reactivity

Reactivity	Stable under normal temperatures and pressures.
Chemical stability	Stable at room temperature in closed containers under normal storage and handling conditions.
Possibility of hazardous reactions	No hazardous reactions known.
Conditions to avoid	No information available.
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	No adverse effects due to inhalation are expected.
Skin contact	Causes skin irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.



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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 ³
LC50(Inhalation, Mouse)	23000 mg/m ³ /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.



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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
UN Number	1089						
Shipping Name	Acetaldehyde, ENVIRONMENTALLY HAZARDOUS						
Hazard Class	3						
Packing group	I						
Environmental Hazards	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



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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.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.