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# Safety Data Sheet

Product Name: 2, 3-PENTANEDIONE NATURAL

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

#### **Product identifier**

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Product Number 771-3108

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

Use of Substance/Mixture Flavor and fragrance agents.

## 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 2, H225

Acute toxicity, Oral, Category 4, H303

Sensitisation - skin, Category 1, H317

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

Hazardous to the aquatic environment - acute toxicity, Category 2, H402

## Labelling elements

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



### Pictogram

#### Signal word

Danger

## **Hazard Statement**

- H225 Highly flammable liquid and vapour.
- H303 Harmful if swallowed.
- H317 May cause an allergic skin reaction.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H402 Toxic to aquatic life.

#### **Precautionary statement**

#### Prevention

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

P233 - Keep container tightly closed.



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P240 - Ground/bond container and receiving equipment.

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- P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
- 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.
- 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.
- P314 Get medical advice/attention if you feel unwell.

P330 - Rinse mouth.

- P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
- P363 Wash contaminated clothing 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

Substance Name	2, 3-PENTANEDIONE NATURAL
CAS Number	600-14-6
EC Number	209-984-8
% (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.



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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	19°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 firefig	hters
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	Cold storage in a closed container, protected from heat and light. Keep container tightly closed
	in a dry and well-ventilated place. Containers which are opened must be carefully resealed and
	kept upright to prevent leakage.
Handling	Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary
	measures against static discharges. All equipment used when handling the product must be
	grounded. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged



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Specific end use(s)

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exposure. Wash thoroughly after handling. 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.
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	Slight yellow to green liquid
Odor	Creamy, sweet, buttery, brown roasted, with a fruity nuance
Flash point	19 °C
Density	0.952 - 0.962 at 25 °C
Refractive Index	1.402 - 1.406 at 20 °C
Acid Value	No information available.
Solubility (ies)	No information available.
Auto ignition temperature	No information available.
Viscosity	No information available.

# Section 10: Stability and Reactivity



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Reactivity	Stable under storage temperatures and pressures.
Chemical stability	Stable at cool temperature in closed containers under normal storage and
	handling conditions.
Possibility of hazardous reactions	No hazardous reactions known.
Conditions to avoid	Open flames, hot surfaces and sources of ignition.
Incompatible materials	Strong oxidizing agents, strong bases, mineral acids.
Hazardous decomposition products	No information available.

# Section 11: Toxicological Information

Information on likely routes of exposi	
Inhalation	Causes irritation to the respiratory system.
Skin contact	Causes skin irritation.
Eye contact	No information available.
Ingestion	Harmful if swallowed.
Information on toxicological effects:	
Oral/Parenteral Toxicity	Acute, LD50 Rat, 3000 mg/kg
Dermal Toxicity	Acute, LD50 Rabbit, > 2500 mg/kg
Inhalation Toxicity	No information available.
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 component of this product present at levels greater than or equal to 0.1% is
	identified as probable, possible or confirmed human carcinogen by IARC.
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 ACGIH.
NTP	No component of this product present at levels greater than or equal to 0.1% is
	identified as a known or anticipated carcinogen by NTP.
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	Fish: LC50 Golden orfe, 46~100 mg/l ( 96 h)
Persistence and degradability	Biodegradability: 80% - Readily biodegradable (OECD Test Guideline 302B).
	Chemical Oxygen Demand: 1810 mg/g
	Ratio BOD/ThBOD: 20~60%
Bio accumulative potential	No information available.
Mobility in soil	No information available.
Results of PBT&vPvB assessment	No information available.
Other adverse effects	No information available.

website: www.olaughlinco.com



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# 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	1224						
Shipping Name	KETONES, LIQUID, N.O.S. (2,3-PENTANEDIONE)						
Hazard Class	3						
Packing group	II						
Environmental Hazards	No						

# 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		
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		



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Not regulated 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: May 11, 2024

## **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.