

Version: 4.0 Revision date: 01/01/2025

Product Name

Safety Data Sheet

Product Name: 3,4-HEXANEDIONE

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

Product identifier

3,4-HEXANEDIONE

Product Number 772-2043

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 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 3, H226 Skin corrosion/irritation, Category 2, H315 Serious eye damage/eye irritation, Category 2A, H319 Acute toxicity – inhalation, Category 3, H331 **Labelling elements**

Labelling according to Regulation (EC) No 1272/2008

Pictogram



Danger

Hazard Statement

Signal word

H226 - Flammable liquid and vapour.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation

H331 – Toxic if inhaled.

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.



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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.

- P264 Wash ... thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

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 to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P311 - Call a POISON CENTER or doctor/ physician.

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

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

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

P362 - Take off contaminated clothing and wash before re-use.

P370 + P378 - In case of fire: Use extinguishing media listed in Section 5 of the SDS for extinction.

Storage

P403 - Store in a well-ventilated place.

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

-	0	
Substance Name	3,4-HEXANEDIONE	
CAS Number	4437-51-8	
EC Number	224-651-7	
% (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.



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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	31.11°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	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
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. 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	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



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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.	
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Section 9: Physical and Chemical Properties

Appearance	Yellow oily liquid.
Odor	Butter-sweet odour.
Flash point	31.11 °C
Specific Gravity	0.930 - 0.960 at 20°C
Refractive Index	1.400 - 1.415 at 20 °C
Solubility (ies)	Insoluble in water.
Auto ignition temperature	No information available.
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.

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Section 11: Toxicological Information

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Information on likely routes of exposure		
Inhalation	May cause irritation to the respiratory system.	
Skin contact	Causes skin irritation.	
Eye contact	Causes serious eye irritation.	
Ingestion	Toxic if inhaled.	
Information on toxicological effects		
Oral/Parenteral Toxicity	oral-rat LD50 > 5000 mg/kg	
Dermal Toxicity	skin-rabbit LD50 > 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 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	No information available.
Persistence and degradability	No information available.
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.

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	

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Contaminated packaging

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its container must be disposed of in a safe manner.

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	3,4-HEXANEDIONE						
Hazard Class	3						
Packing group	III						

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
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
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 EINECS Europe Yes ELINCS Europe No



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Japan Korea New Zealand Philippines US and Puerto Rico

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	110000011011010,1112/0111
ENCS	Yes
ECL	Yes
New Zealand Inventory	Yes
PICCS	Yes
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.