

Revision date: 19/01/2022 Product Name: 3,4-Hexanedione

Safety Data Sheet

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

Product identifier

Product Name 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 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 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** 





Signal word

Danger

#### **Hazard Statement**

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.



# **Safety Data Sheet**

Version: 3.0

Revision date: 19/01/2022 Product Name: 3,4-Hexanedione

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

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.

IngestionInhalationNever give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.



# **Safety Data Sheet**

Version: 3.0

Revision date: 19/01/2022 Product Name: 3,4-Hexanedione

**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 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

suitable, closed containers for disposal.

## Section 7: Handling and Storage

Storage Store in cool place. 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** 



Safety Data Sheet

Product Name: 3.4-Hexanedione

Revision date: 19/01/2022

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** Yellow oily liquid. Odor Butter-sweet odour.

Flash point 31.11 °C

0.930 - 0.960 at 20 °C **Specific Gravity** Refractive Index 1.400 - 1.415 at 20 °C Solubility (ies) Insoluble in water.

Auto ignition temperature No information available. No information available. Viscosity

### 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.

No information available. Hazardous decomposition products



Revision date: 19/01/2022 Product Name: 3.4-Hexanedione

### Section 11: Toxicological Information

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 No information available.

Carcinogenicity

Germ cell mutagenicity

**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.

Safety Data Sheet

**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.

No information available Reproductive toxicity 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. No information available. Other adverse effects

# 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



Revision date: 19/01/2022

Version: 3.0

**Safety Data Sheet** 

Product Name: 3,4-Hexanedione

its container must be disposed of in a safe manner.

Contaminated packaging Empty containers should be taken to an approved w

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**

- Coulon I II Harroport 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

CAA Section 112 (r) Accidental Release Prevention (40 CFR 68.130)

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



Revision date: 19/01/2022 Product Name: 3,4-Hexanedione

Japan ENCS Yes
Korea ECL Yes
New Zealand New Zealand Inventory Yes
Philippines PICCS Yes
US and Puerto Rico TSCA Yes

Safety Data Sheet

**Section 16: Other Information** 

**Revision Information** 

Date of this version: Jan 19, 2022

#### **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.