

Safety Data Sheet

Version: 3.0 EN

Product name: Diacetyl Synthetic FCC

1 SUBSTANCE/MIXTURE& COMPANY IDENTIFICATION

Product identifier Product Name **Diacetyl Synthetic FCC** Product Number 772 - 2005 Relevant identified use of the substance/mixture and uses advised against Use of Substance/Mixture Flavor agent. Details of supplier of the SDS Company O'Laughlin Corporation Limited Suite 1704 Chinachem Tower 34 - 37 Connaught Road, Central, Hong Kong Address Telephone (852) 2527 1031 Fax (852) 2529 0231

E-mail address olcorphk@hkstar.com

Emergency telephone number

(852) 2527 1031

2 HAZARD (S) 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, H302 Skin corrosion/irritation, Category 2, H315 Sensitisation – skin, Category 1, H317 Serious eye damage/eye irritation, Category 1, H318 Acute toxicity, inhalation, Category 3, H331 Specific target organ toxicity, repeated exposure, Category 2, H373 Hazardous to the aquatic environment, acute hazard, Category 3, H402 Labelling elements Labelling according to Regulation (EC) No 1272/2008 Pictogram



Signal word Danger Hazard Statement

H225 - Flammable liquid and vapor.

H302 - Harmful if swallowed.

H315 - Causes skin irritation.



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H317 - May cause an allergic skin reaction.

- H318 Causes serious eye damage.
- H331 Toxic if inhaled.
- H373 Causes damage to organs through prolonged or repeated exposure.
- H402 Toxic to the aquatic life.

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.
- P241 Use explosion-proof electrical/ventilating/lighting/.../ equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- 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.
- P271 Use only outdoors or in a well-ventilated area.
- 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.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable to breathe.

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

- P310 Immediately call a POISON CENTER or doctor/physician.
- P314 Get medical advice/attention if you feel unwell.
- P321 Specific treatment (see ... on this label).

P330 - Rinse mouth.

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

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

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

P362+p364 - Take off contaminated clothing and wash it before reuse.

P370+P378 - In case of fire: Use ... for extinction.

Storage

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



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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

3 COMPOSITION/INFORMATION ON INGREDIENT

Substance Name	2, 3-Butanedione
CAS Number	431-03-8
EC Number	207-069-8
% (w/w)	100

Remarks: The rest unspecified ingredients are impurities, and they are not hazard.

4 FIRST AID MEASURES

Description of first aid measures:

- Skin contact Remove contaminated clothes. Wash thoroughly with water (and soap). Contact physician if symptoms persist.
- Eye contact RFlush immediately with water for at least 15 minutes. Contact physician if symptoms persist.
- Indestion Rinse mouth with water and obtain medical advice.
- Inhalation Remove from exposure site to fresh air and keep at rest. Obtain medical advice.

General information

Ensure that medical personnel are aware of the materials involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

Indication of any immediate medical and special treatment needed:

No information available

No mormation available.		
5 FIRE-FIGHTING MEASURES		
Firefighting:		
Suitable extinguishing media	Water spray, fog, CO2, dry chemical, or alcohol resistant foam.	
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.	



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Specific methods General fire hazards Use water spray to cool unopened containers Static charges generated by emptying package in or near flammable vapor may cause flash fire.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions:	Avoid inhalation and contact with skin and eyes. A self- container breathing apparatus
	is recommended in case of a major spill.
Environmental precautions:	Keep away from drains, surface and groundwater and soil.
Methods for cleaning up:	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7 STORAGE & HANDLING

Storage:	No smoking. 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. Storage under 5 $^\circ$ C.	
Handling:	Avoid formation of aerosol. Smoking, eating and drinking should be prohibited in the application	
	area. Take precautionary measures against static discharges. Provide sufficient air exchange	
	and/or exhaust in work rooms. Open drum carefully as content may be under pressure.	
Specific use(s):	No information available.	

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Components with workplace control parameters.

Exposure controls:

Appropriate engineering co	ntrols: Use explosion-proof ventilation equipment to stay below exposure limits.
Personal protective equipm	ent:
Eye/face protection:	Eye wash bottle with pure water. Tightly fitting safety goggles.
Hand protection:	Type of gloves recommended: Butyl rubber. Minimum breakthrough time / gloves: 480
	min. Minimum thickness / gloves 0.11 mm.
Body protection:	Protective work clothing.
Respiratory protection:	Mask (in case of insufficient ventilation).
Thermal hazards:	Wear suitable protective clothing to prevent heat.
Environmental exposure	Avoid discharge into the environment. According to local regulations, Federal and
controls:	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



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eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9 PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Yellow to yellowish green liquid.
Odor:	Sweet, strongly buttery, creamy, milky odor and flavor.
Boiling point:	88 °C (lit.)
Flash point	<10 °C
Density	0.979 - 0.985 at 25 °C
Vapor Pressure	56.8000 mm/Hg at 25 °C
Solubility (ies)	Soluble in water, ethanol and ether.
Auto ignition temperature	No information available
Partition coefficient octanol/water:	No information available
Viscosity:	No information available

10 STABILITY & 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:	Incompatible materials. Heat, sparks, flames.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	No information available

11 TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:		
Inhalation	May cause irritation to the respiratory system.	
Skin contact	May be harmful in contact with skin. Causes skin irritation.	
Eye contact	Causes serious eye irritation. Causes mild eye irritation.	
Ingestion	May be harmful if swallowed.	
Information on toxicological effects:		
Oral/Parenteral Toxicity		
Gavage-rat LD50	[sex: M,F] M:3400, F:3000 mg/kg	
Gavage-rat LD50	1580 mg/kg	
Gavage-guinea pig LD50	990 mg/kg	
Intraperitoneal-rat LD50	400 mg/kg	



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Dermal Toxicity	
Skin-rabbit LD50	> 5000 mg/kg
Skin corrosion/Irritation:	Causes skin irritation.
Serious eye damage/irritation:	Causes serious eye irritation
Respiratory sensitization:	No information available.
Skin sensitization:	Rabbit > 5000 mg/kg LD50
Oral:	Guinea pig 990 mg/kg LD50
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
Target Organ Systemic Toxicant -	No information available.
single exposure:	
Target Organ Systemic Toxicant -	No information available.
repeated exposure:	
Aspiration hazard:	No information available.

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.

13 DISPOSAL CONDITIONS

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



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	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

14 TRANSPORT INFORMATION								
	ADN	ADR	RID	DOT BULK	DOT NON-BULK	ΙΑΤΑ	IMDG	
UN Number	2346							
Shipping Name	BUTANEDIONE							
Hazard Class	3							
Packing group								
Environmental Hazards	None							
Label required	3							

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 Hazard categories Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No 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) Safe Drinking Water Act (SDWA)

Not regulated

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US State regulations	
US. Massachusetts RTK-Substance List	Not listed
US. New Jersey Worker and Community Right-to-Know Act	Listed
US. Pennsylvania Worker and Community Right-to-Know Law	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

16 OTHER INFORMATION

Revision Information

Date of this version: Feb 20, 2022 Revision summary: The hazard is identification of the substance is changed in Section 2. The Toxicity information and Ecological information were added in Section 11 and Section 12.

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. 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.