



## Safety Data Sheet

Version: 3.0  
Revision date: 18/03/2020

Product Name: Arctic ML Crystal

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

#### **Product identifier**

Product Name Arctic ML Crystal  
Product Number 773-1002

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

Use of Substance/Mixture Flavor and fragrance agents, active cooling ingredient.

#### **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**

Hazardous to the aquatic environment, acute hazard, Category 3, H402

Hazardous to the aquatic environment, long-term hazard, Category 3, H412

#### **Labelling elements**

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

Pictogram None

Signal word None

#### **Hazard Statement**

H402 - Toxic to the aquatic life.

H412 – Harmful to aquatic life with long lasting effects.

#### **Precautionary statement**

#### **Prevention**

P273 - Avoid release to the environment.

#### **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**

<b>Substance Name</b>	<b>L-Menthyl lactate</b>
CAS Number	59259-38-0
EC Number	261-678-3

Version: 3.0

Revision date: 18/03/2020

Product Name: Arctic ML Crystal

% (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** Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.
- Eye contact** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
- Ingestion** Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.
- Inhalation** Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

### 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.

## Section 5: Fire-fighting Measures

### Flammable properties

Flash point 128°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 As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

## Section 6: Accidental Release Measures

**Personal precautions** Avoid inhalation and contact with skin and eyes. A self- container breathing apparatus is



## Safety Data Sheet

Version: 3.0  
Revision date: 18/03/2020

Product Name: Arctic ML Crystal

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.

## Section 7: Handling and Storage

### Storage

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

### 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 end use(s)

No information available.

## Section 8: Exposure Controls/Personal Protection

**Control parameters:** Components with workplace control parameters.

### Exposure controls

#### Appropriate engineering controls

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

### Personal protective equipment

#### Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### 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

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

#### 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

White brick.

### Odor

Mild cooling odor, sweet menthol taste.

### Melting point

42-47 °C



## Safety Data Sheet

Version: 3.0

Revision date: 18/03/2020

Product Name: Arctic ML Crystal

Flash point	128 °C
Angular Rotation	-74 °
Congeaing Point	40 °C
Acid Value	2.0mg KOH/g max.
Solubility (ies)	Insoluble in water, soluble in alcohol and oil.
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	Incompatible materials. Heat, sparks, flames.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No information available.

### Section 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	Rat, LD50> 1000 mg/kg
Dermal Toxicity	Rabbit, LD50> 5000 mg/kg
Skin corrosion/Irritation:	Humans: No skin irritation.
Serious eye damage/irritation:	Rabbit: No eye irritation.
Respiratory sensitization:	Due to lack of data the classification is not possible.
Skin sensitization:	Humans: No sensitizing effect.
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.



# Safety Data Sheet

Version: 3.0

Revision date: 18/03/2020

Product Name: Arctic ML Crystal

TOST - repeated exposure

No information available.

Aspiration hazard

No information available.

## Section 12: Ecological Information

Eco toxicity

No information available.

Crustacea – Daphnia magna

EC50: 125 mg/l, 48 hours OECD 202 / ISO 6341

Fish - Zebra danio

LC50: 22 mg/l, 96 hours OECD 203 / ISO 7346

Other – Activated sludge

EC50: 650 mg/l OECD 209

Persistence and degradability

Readily biodegradable (OECD-classification) 100 %/28 d, Modified OECD screening test

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 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	Not Regulated						
Shipping Name							
Hazard Class							
Packing group							
Environmental Hazards							

## 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



## Safety Data Sheet

Version: 3.0

Revision date: 18/03/2020

OSHA Specifically Regulated Substance (29 CFR 1910.1001-1050)

SARA 302 Extremely hazardous substances

SARA 311/312 Hazard Chemical

SARA 313 (TRI reporting)

Product Name: Arctic ML Crystal

Not listed

Not listed

Not listed

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 regulated

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	No
Canada	NDSL	Yes
China	IECSC	Yes
Europe	EINECS	Yes
Europe	ELINCS	No
Japan	ENCS	Yes
Korea	ECL	No
New Zealand	New Zealand Inventory	No
Philippines	PICCS	No
US and Puerto Rico	TSCA	Yes

### Section 16: Other Information

#### Revision Information

Date of this version: Mar 18, 2020

Revision summary: The hazard 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



## Safety Data Sheet

**Version: 3.0**

**Revision date: 18/03/2020**

**Product Name: Arctic ML Crystal**

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.