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Revision date: 01/01/2025

Product Name: VERTOLOL

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

Product identifier

Product Name VERTOLOL

Product Number 772-3072

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

Skin corrosion/irritation, Category 2, H315

Sensitisation – skin, Category 1, H317

Serious eye damage/eye irritation, Category 2A, H319

Hazardous to the aquatic environment – chronic toxicity, Category 2, H411

Labelling elements

Labelling according to Regulation (EC) No 1272/2008



Pictogram

Signal word

Warning

Hazard Statement

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention

P260 - Do not breathe dust/ fume/ gas/mist/ vapours/ spray.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

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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.

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	VERTOLOL
CAS Number	27939-60-2/ 67801-65-4
EC Number	248-742-6/ 267-186-5
% (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.

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 65°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

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Specific methods

General fire hazards

apparatus with a full-face piece operated in the positive pressure demand mode when fighting fires.

Use water spray to cool unopened containers

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

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)



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Thermal hazards

or CEN (EU).

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	Clear colorless to pale yellow mobile liquid
Odor	Green, citrus, herbal, aldehydic
Flash point	65°C
Specific Gravity	0.926 - 0.934 at 20 °C 0.925 - 0.933 at 25 °C
Refractive Index	1.4660 - 1.4700 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.

Section 11: Toxicological Information

Information on likely routes of exposure:

Inhalation	No information available.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	No information available.

Information on toxicological effects:

Oral/Parenteral Toxicity	Acute, LD50 Rat, 3100 mg/kg.
Dermal Toxicity	Acute, LD50 Rabbit, 5000 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



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IARC

identified as a carcinogen or potential carcinogen by OSHA.

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

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 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	3082						
Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S (VERTOLOL)						
Hazard Class	9						
Packing group	III						
Environmental Hazards	Yes						



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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
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

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

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