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Safety Data Sheet

Revision date: 06/05/2024 Product Name: TERPINOLENE 20

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

#### **Product identifier**

Product Name TERPINOLENE 20

Product Number 780-1011

#### 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

Sensitisation - skin, Category 1, H317

#### Labelling elements

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





#### **Pictogram**

#### Signal word Warning

#### **Hazard Statement**

H226 - Flammable liquids and vapor.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

#### **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.



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P261 - Avoid breathing dust/ fume/ gas/ mist/vapors/ spray.

P264 - Wash thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace.

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.

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

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

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

P363 - Wash contaminated clothing before reuse.

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

#### **Storage**

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

#### 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	1-Methyl-4-(1-methylethylidene)-cyclohexene;	
Substance Name	4-Isopropenyl-1-methyl-cyclohexene	
CAS Number	68956-56-9	
EC Number	205-341-0	
% (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**



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Flammable properties

Flash point 46°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** Keep away from open flames, hot surfaces and sources of ignition. 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** Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary

measures against static discharges. Avoid contact with skin and eyes. Avoid inhalation of vapor

or mist. Normal measures for preventive fire protection. Wash thoroughly after handling.

**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



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**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** Pale yellow liquid

Odor Citrus
Flash point 46 °C
Boiling point: 165 °C

Specific Gravity

Refractive Index

1.4700 - 1.4900 at 20 °C

Acid Value

No information available.

Solubility (ies)

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

Information on likely routes of exposure:

**Inhalation** Avoid breathing vapors or mists.

Skin contact Causes skin irritation.

Eve contact Avoid contact with eyes.

**Ingestion** Do not ingest.

Information on toxicological effects:

Oral/Parenteral Toxicity DIPENTENE: Acute, LD50 Rat, 5300 mg/kg.

1-METHYL-4-(1-METHYLETHYLIDENE)-CYCLOHEXENE: Acute, LD50 Rat, 4390

mg/kg.

Dermal 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

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 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 toxicityNo information available.TOST - single exposureNo information available.TOST - repeated exposureNo information available.Aspiration hazardNo information available.

#### **Section 12: Ecological Information**

Eco toxicityNo information available.Persistence and degradabilityNo information available.Bio accumulative potentialNo information available.Mobility in soilNo information available.Results of PBT&vPvB assessmentNo information available.Other adverse effectsNo 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.



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its container must be disposed of in a safe manner.

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	2541						
Shipping Name	Terpinoline						
Hazard Class	3						
Packing group	III						
<b>Environmental Hazards</b>	No						

## **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

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



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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

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#### **Section 16: Other Information**

## **Revision Information**

Date of this version: May 6, 2024

#### **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.