# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

<table>
<thead>
<tr>
<th>Product form</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>o-Terphenyl Standard</td>
</tr>
<tr>
<td>Product code</td>
<td>AL0-101249</td>
</tr>
<tr>
<td>Product group</td>
<td>Trade product</td>
</tr>
</tbody>
</table>

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

### 1.2.1. Relevant identified uses

- **Industrial/Professional use spec**: Industrial
  - For professional use only

### 1.2.2. Uses advised against

No additional information available

## 1.3. Details of the supplier of the safety data sheet

Phenova
6390 Joyce Dr. Suite 100
80403 Golden, CO - United States
T 1-866-942-2978 - F 1-866-283-0269
info@phenova.com - www.phenova.com

## 1.4. Emergency telephone number

- Emergency number: ChemTel Assistance (US/Canada) 1-800-255-3924
  - ChemTel Assistance (International) +1 813-248-0585

# SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

- Carc. 2  H351

### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

- Carc. Cat.3; R40

---

**Adverse physicochemical, human health and environmental effects**

No additional information available

## 2.2. Label elements

### Labeling according to Regulation (EC) No. 1272/2008 [CLP]

#### Hazard pictograms (CLP)

![GHS08](image)

- **Signal word (CLP)**: Warning
- **Hazardous ingredients**: Methylene Chloride
- **Hazard statements (CLP)**: H351 - Suspected of causing cancer
- **Precautionary statements (CLP)**:
  - P281 - Use personal protective equipment as required
  - P308+P313 - IF exposed or concerned: Get medical advice/attention
  - P405 - Store locked up
  - P501C - Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

---

No labeling applicable

## 2.3. Other hazards

No additional information available
SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene Chloride (Component)</td>
<td>(CAS No) 75-09-2 (EC no) 200-838-9 (EC index no) 802-004-00-3</td>
<td>99.8</td>
<td>Carc. 2, H351</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed
No additional information available

4.3. Indication of any immediate medical attention and special treatment needed
No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media


Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture
No additional information available

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Hygiene measures: Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container closed when not in use. Keep container tightly closed and in a well-ventilated place. Keep away from any flames or sparking source.

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls: Either local exhaust or general room ventilation is usually required.


Hand protection: Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical penetration.

Eye protection: Chemical goggles or safety glasses. Safety glasses.

Skin and body protection: Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact.

Respiratory protection: Wear appropriate mask.

Other information: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Color: Colorless.
Odor: Characteristic.
P.H: No data available
Melting point: No data available
Freezing point: No data available
Boiling point: No data available
Flash point: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Flammability (solid, gas): Non flammable
Relative density: No data available
Solubility: No data available
Explosive properties: No data available
Oxidizing properties: No data available
Explosion limits: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.
### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products


### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Acute toxicity**

<table>
<thead>
<tr>
<th>Compound</th>
<th>LD&lt;sub&gt;50&lt;/sub&gt; oral rat</th>
<th>LD&lt;sub&gt;50&lt;/sub&gt; dermal rabbit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene Chloride (75-09-2)</td>
<td>&gt; 2000 mg/kg (Rat; Literature study)</td>
<td>&gt; 2000 mg/kg (Rabbit; Literature study)</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

**Serious eye damage/irritation**

Based on available data, the classification criteria are not met.

**Respiratory or skin sensitization**

Based on available data, the classification criteria are not met.

**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

Suspected of causing cancer.

May cause cancer.

**Reproductive toxicity**

Based on available data, the classification criteria are not met.

**Specific target organ toxicity (single exposure)**

Based on available data, the classification criteria are not met.

**Specific target organ toxicity (repeated exposure)**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Potential Adverse human health effects and symptoms**

Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### 12.1. Toxicity

**Methylene Chloride (75-09-2)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC&lt;sub&gt;50&lt;/sub&gt; fish 1</td>
<td>193 mg/l (96 h; Pimephales promelas; Flow-through system)</td>
</tr>
<tr>
<td>EC&lt;sub&gt;50&lt;/sub&gt; Daphnia 1</td>
<td>168.2 mg/l (48 h; Daphnia magna)</td>
</tr>
<tr>
<td>LC&lt;sub&gt;50&lt;/sub&gt; fish 2</td>
<td>220 mg/l (96 h; Lepomis macrochirus; Flow-through system)</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>1450 mg/l (192 h; Scenedesmus quadricauda; Cell numbers)</td>
</tr>
<tr>
<td>Threshold limit algae 2</td>
<td>550 mg/l (192 h; Microcystis aeruginosa)</td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

**o-Terphenyl Standard**

Persistence and degradability: Not established.

**Methylene Chloride (75-09-2)**

Persistence and degradability: Not readily biodegradable in water. Biodegradable in the soil.

#### 12.3. Bioaccumulative potential

**o-Terphenyl Standard**

Bioaccumulative potential: Not established.

**Methylene Chloride (75-09-2)**

<table>
<thead>
<tr>
<th>Component</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCF fish 1</td>
<td>2 - 40 (Cyprinus carpio; Test duration: 6 weeks)</td>
</tr>
<tr>
<td>Log Pow</td>
<td>1.25 (Experimental value)</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Low potential for bioaccumulation (BCF &lt; 500).</td>
</tr>
</tbody>
</table>

#### 12.4. Mobility in soil
o-Terphenyl Standard
Safety Data Sheet
according to Regulation (EC) No. 453/2010

Methylene Chloride (75-09-2)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface tension</td>
<td>0.028 N/m (20 °C)</td>
</tr>
<tr>
<td>Ecology - soil</td>
<td>May be harmful to plant growth, blooming and fruit formation.</td>
</tr>
</tbody>
</table>

12.5. Results of PBT and vPvB assessment
No additional information available

12.6. Other adverse effects
Additional information: Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information

14.1. UN number
UN-No. (ADR): 2810
UN-No. (IATA): 2810

14.2. UN proper shipping name
Proper Shipping Name (ADR): TOXIC LIQUID, ORGANIC, N.O.S.
Proper Shipping Name (IATA): TOXIC LIQUID, ORGANIC, N.O.S.
Proper Shipping Name (IMDG): TOXIC LIQUID, ORGANIC, N.O.S.
Proper Shipping Name (ADN): TOXIC LIQUID, ORGANIC, N.O.S.
Transport document description (ADR): UN 2810 TOXIC LIQUID, ORGANIC, N.O.S. (dichloromethane(75-09-2)), 6.1, III, (E)

14.3. Packing group
Class (ADR): 6.1
Classification code (ADR): T1
Class (IATA): 6.1
Class (IMDG): 6.1
Class (ADN): 6.1
Hazard labels (ADR): 6.1

Hazard labels (IATA): 6.1

14.4. Packing group
Packing group (ADR): III
Packing group (IATA): III

14.5. Environmental hazards
Other information: No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport
Hazard identification number (Kemler No.): 60
Classification code (ADR): T1
Orange plates: 60
Special provision (ADR): 274, 614
Transport category (ADR): 2
Terphenyl Standard Safety Data Sheet according to Regulation (EC) No. 453/2010

14.6.2. Transport by sea
No additional information available

14.6.3. Air transport
CAO packing instructions (IATA): 663
CAO max net quantity (IATA): 220L
PCA packing instructions (IATA): 655
PCA Limited quantities (IATA): YG42
PCA limited quantity max net quantity (IATA): 2L
PCA max net quantity (IATA): 60L
PCA Excepted quantities (IATA): E1
Special provision (IATA): A137
ERG code (IATA): 6L

14.6.4. Inland waterway transport
Carriage prohibited (ADN): No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations
Contains no substances with Annex XVII restrictions
Contains no REACH candidate substance
Contains no REACH Annex XIV substances.

15.1.2. National regulations
No additional information available

15.2. Chemical safety assessment
No chemical safety assessment has been carried out

SECTION 16: Other information


Other information: None.