L(-)-10-Camphorsulfonyl chloride (cas 39262-22-1) MSDS

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
   Product Name: (1R)-(-)-10-Camphorsulfonyl chloride

2. HAZARDS IDENTIFICATION
   Classification of the substance or mixture
   According to Regulation (EC) No 1272/2008
   Skin corrosion (Category 1B)
   Causes burns.
   
   Label elements
   
   Pictogram
   
   Signal word
   Danger

   Hazard statement(s)
   H314
   Causes severe skin burns and eye damage.

   Precautionary statement(s)
   P280
   Wear protective gloves/ protective clothing/ eye protection/ face protection.
   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.

   Hazard symbol(s)
   C

   R-phrase(s)
   R34
   Causes burns.

   S-phrase(s)
   S26
   In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
   S36/37/39
   Wear suitable protective clothing, gloves and eye/face protection.
   S45
   In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

   Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS
   Synonyms: (1R)-Camphor-10-sulfonic acid chloride
               (?)-Camphor-10-sulfonyl chloride

   Formula: C10H15ClO3S
   Molecular Weight: 250.74 g/mol

   CAS-No.     EC-No.     Index-No.     Classification     Concentration
   (1R)-(-)-Camphor-10-sulfonyl-chloride
   39262-22-1   -           -           Skin Corr. 1B; H314
                     -           C, R34

   For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES
   General advice
   Consult a physician. Show this safety data sheet to the doctor in attendance.

   If inhaled
   If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

   In case of skin contact
   Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions
Do not let product enter drains.

Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling
Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Conditions for safe storage
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Moisture sensitive.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) 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).

Hand protection
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Handle with gloves.

Eye protection
Face shield and safety glasses

Skin and body protection
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Form crystalline
Colour beige

Safety data
pH no data available
Melting point 66 - 68 °C - lit.
Boiling point no data available
Flash point no data available
Ignition temperature no data available
Lower explosion limit  no data available
Upper explosion limit  no data available
Water solubility  no data available

10. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.

Conditions to avoid
no data available

Materials to avoid
Strong bases, Strong oxidizing agents

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides, Hydrogen chloride gas

11. TOXICOLOGICAL INFORMATION

Acute toxicity
no data available

Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitization
no data available

Germ cell mutagenicity
no data available

Carcinogenicity
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.

Reproductive toxicity
no data available

Specific target organ toxicity - single exposure
no data available

Specific target organ toxicity - repeated exposure
no data available

Aspiration hazard
no data available

Potential health effects

<table>
<thead>
<tr>
<th>Inhalation</th>
<th>May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion</td>
<td>May be harmful if swallowed. Causes burns.</td>
</tr>
<tr>
<td>Skin</td>
<td>May be harmful if absorbed through skin. Causes skin burns.</td>
</tr>
<tr>
<td>Eyes</td>
<td>Causes eye burns.</td>
</tr>
</tbody>
</table>

Signs and Symptoms of Exposure
Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Cough, Shortness of breath, Headache, Nausea

Additional Information
RTECS: Not available

12. ECOLOGICAL INFORMATION

Toxicity
no data available

Persistence and degradability
no data available

Bioaccumulative potential
no data available

Mobility in soil
13. DISPOSAL CONSIDERATIONS

**Product**
Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**
Dispose of as unused product.

14. TRANSPORT INFORMATION

**ADR/RID**
- UN-Number: 3261 Class: 8
- Packing group: II
- Proper shipping name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. ((1R)-(-)-Camphor-10-sulfonyl-chloride)

**IMDG**
- UN-Number: 3261 Class: 8
- Packing group: II
- EMS-No: F-A, S-B
- Proper shipping name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. ((1R)-(-)-Camphor-10-sulfonyl-chloride)
- Marine pollutant: No

**IATA**
- UN-Number: 3261 Class: 8
- Packing group: II
- Proper shipping name: Corrosive solid, acidic, organic, n.o.s. ((1R)-(-)-Camphor-10-sulfonyl-chloride)

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. OTHER INFORMATION

**Text of H-code(s) and R-phrase(s) mentioned in Section 3**
- **H314** Causes severe skin burns and eye damage.
- **Skin Corr.** Skin corrosion
- **C** Corrosive
- **R34** Causes burns.

**Further information**
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 this document is based on the resent 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. guidechem 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.