1 - Product and Company Information

Product Name: L-A-HYDROXYISOCAPROIC ACID
Product Number: H9376

Company: Sigma-Aldrich Chemie BV
Postbus 27
3330 AA Zwijndrecht
Netherlands

Technical Phone #: 31-78-620-5411
Fax: 31-78-620-5421
E-mail Address: eurtechserv@sial.com
Emergency Phone #: 112

2 - Hazards Identification

3 - Composition/Information on Ingredients

Product Name: (S)-(−)-2-HYDROXYISOCAPROIC ACID, 98%
CAS #: 13748-90-8
EC no: 237-329-6
Annex I Index Number: None

Formula: C6H12O3
Molecular Weight: 132,1600 AMU

4 - First Aid Measures

AFTER INHALATION
If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

AFTER SKIN CONTACT
In case of contact, immediately wash skin with soap and copious amounts of water.

AFTER EYE CONTACT
Contamination of the eyes should be treated by immediate and prolonged irrigation with copious amounts of water.

AFTER INGESTION
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

GENERAL INFORMATION
Contamination of the eyes should be treated by immediate and prolonged irrigation with copious amounts of water.

5 - Fire Fighting Measures
EXPLOSION DATA
Dust Potential: This material, like most materials in powder form, is capable of creating a dust explosion.

EXTINGUISHING MEDIA
Suitable: Carbon dioxide, dry chemical powder, or appropriate foam. Water spray.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7 - Handling and Storage

HANDLING
Directions for Safe Handling: Do not breathe dust. Avoid contact with eyes, skin, and clothing.

STORAGE
Conditions of Storage: Keep tightly closed. Store in a cool dry place. Store at 2-8°C

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS
Safety shower and eye bath. Mechanical exhaust required.

GENERAL HYGIENE MEASURES
Wash thoroughly after handling. Wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT
Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges. Hand Protection: Rubber gloves. Eye Protection: Chemical safety goggles.

9 - Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>N/A</td>
</tr>
<tr>
<td>BP/BP Range</td>
<td>N/A</td>
</tr>
<tr>
<td>MP/MP Range</td>
<td>78,000. - 80,000 °C.</td>
</tr>
<tr>
<td>Flash Point</td>
<td>N/A</td>
</tr>
</tbody>
</table>
Flammability            N/A
Autoignition Temp       N/A
Oxidizing Properties    N/A
Explosive Properties    N/A
Explosion Limits        N/A
Vapor Pressure          N/A
Partition Coefficient   N/A
Viscosity               N/A
Vapor Density           N/A
Saturated Vapor Conc.   N/A
Evaporation Rate        N/A
Bulk Density            N/A
Decomposition Temp.     N/A
Solvent Content         N/A
Water Content           N/A
Surface Tension         N/A
Conductivity            N/A
Miscellaneous Data      N/A
Solubility              N/A

10 - Stability and Reactivity

STABILITY
 Materials to Avoid: Bases, Oxidizing agents, Reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS
 Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.

11 - Toxicological Information

ROUTE OF EXPOSURE
 Skin Contact: May cause skin irritation.
 Eye Contact: May cause eye irritation.
 Multiple Routes: May be harmful by inhalation, ingestion, or skin absorption.

12 - Ecological Information

No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL
 Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14 - Transport Information

RID/ADR
 Non-hazardous for road transport.

IMDG
 Non-hazardous for sea transport.

IATA
 Non-hazardous for air transport.

15 - Regulatory Information
COUNTRY SPECIFIC INFORMATION

Germany
WGK: 3
Self-Classification

16 - Other Information

WARRANTY
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. Sigma-Aldrich Inc., 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. Copyright 2010 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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