

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : DL-5-Hydroxylysine hydrochloride

Product Number : H0377  
Brand : Sigma

Company : Sigma-Aldrich Canada, Ltd  
2149 Winston Park Drive  
OAKVILLE ON L6H 6J8  
CANADA

Telephone : +1 9058299500  
Fax : +1 9058299292  
Emergency Phone # : 800-424-9300

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms : 2,6-Diamino-5-hydroxyhexanoic acidhydrochloride  
2,6-Diamino-5-hydroxycaproic acidhydrochloride

Formula :  $C_6H_{14}N_2O_3 \cdot HCl$   
Molecular Weight : 198.65 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>5-Hydroxy-DL-lysine hydrochloride</b>			
13204-98-3	236-168-9	-	-

**3. HAZARDS IDENTIFICATION**

**WHMIS Classification**  
Not WHMIS controlled. Not WHMIS controlled.

**HMIS Classification**  
Health Hazard: 0  
Flammability: 0  
Physical hazards: 0

**Potential Health Effects**

**Inhalation** : May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin** : May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes** : May cause eye irritation.  
**Ingestion** : May be harmful if swallowed.

**4. FIRST AID MEASURES**

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

Sigma - H0377

Sigma-Aldrich Corporation  
www.sigma-aldrich.com

Page 1 of 4

**In case of skin contact**

Wash off with soap and plenty of water.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

**5. FIRE-FIGHTING MEASURES**

**Flammable properties**  
Flash point : no data available

Ignition temperature : no data available

**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**

Avoid dust formation.

**Environmental precautions**

Do not let product enter drains.

**Methods for cleaning up**

Sweep up and shovel. Keep in suitable, closed containers for disposal.

**7. HANDLING AND STORAGE****Handling**

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Storage**

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Contains no substances with occupational exposure limit values.

**Personal protective equipment****Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**

For prolonged or repeated contact use protective gloves.

**Eye protection**

Safety glasses

**Hygiene measures**

General industrial hygiene practice.

Sigma - H0377

Sigma-Aldrich Corporation  
www.sigma-aldrich.com

Page 2 of 4

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form : powder

Colour : beige

**Safety data**

pH : no data available

Melting point : 225 °C (437 °F)

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****Storage stability**

Stable under recommended storage conditions.

**Materials to avoid**

Strong oxidizing agents

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas

**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

no data available

**Irritation and corrosion**

no data available

**Sensitisation**

no data available

**Chronic exposure**

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.

**Potential Health Effects****Inhalation** : May be harmful if inhaled. May cause respiratory tract irritation.**Skin** : May be harmful if absorbed through skin. May cause skin irritation.**Eyes** : May cause eye irritation.**Ingestion** : May be harmful if swallowed.**12. ECOLOGICAL INFORMATION****Elimination information (persistence and degradability)**

Sigma - H0377

Sigma-Aldrich Corporation  
www.sigma-aldrich.com

Page 3 of 4

no data available

**Ecotoxicity effects**

no data available

**Further information on ecology**

no data available

**13. DISPOSAL CONSIDERATIONS****Product**

Observe all federal, state, and local environmental regulations.

**Contaminated packaging**

Dispose of as unused product.

**14. TRANSPORT INFORMATION****DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**15. REGULATORY INFORMATION****TSCA Status**

On TSCA Inventory

**DSL Status**

This product contains the following components listed on the Canadian DSL list. All other components are on the Canadian DSL list.

5-Hydroxy-DL-lysine hydrochloride

CAS-No.  
13204-98-3**WHMIS Classification**

Not WHMIS controlled.

Not WHMIS controlled.

**16. OTHER INFORMATION****Further information**

Copyright 2008 Sigma-Aldrich Co. License granted to make internal use only. 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 Co., 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.

Sigma - H0377

Sigma-Aldrich Corporation  
www.sigma-aldrich.com

Page 4 of 4