

# (2S,4S)-4-Methylglutamic Acid: sc-209430



*The Power to Question*

## MATERIAL SAFETY DATA SHEET

### Section 1 – PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** (2S,4S)-4-Methylglutamic Acid  
**Catalog Number:** sc-209430  
**Synonyms:** (4S)-4-Methyl-L-glutamic Acid  
**Supplier:** Santa Cruz Biotechnology, Inc.  
2145 Delaware Avenue  
Santa Cruz, CA 95060  
800.457.3801 or 831.457.3800  
**Emergency:** ChemWatch  
Within the US & Canada: 877-715-9305  
Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

### Section 2 – Composition, Information on Ingredients

**Chemical Name:** (2S,4S)-4-Methylglutamic acid . hydrochloride  
**CAS#:** 160806-12-2  
**EINECS/ELINCS:** Unlisted

### Section 3 – Hazards Identification

#### EMERGENCY OVERVIEW

Not available.

**Target Organs:** None known.

#### Potential Health Effects

|                   |   |
|-------------------|---|
| <b>Eye</b>        | May cause eye irritation.   |
| <b>Skin</b>       | May cause skin irritation. May be harmful if absorbed through the skin.   |
| <b>Ingestion</b>  | May cause irritation of the digestive tract. May be harmful if swallowed. |
| <b>Inhalation</b> | May cause respiratory tract irritation. May be harmful if inhaled.        |
| <b>Chronic</b>    | Not available.  |

### Section 4 – First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:** Get medical aid. Wash mouth out with water.

**Inhalation:** Remove from exposure and move to fresh air immediately.

**Notes to Physician:** Treat symptomatically and supportively.

### Section 5 – Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or chemical foam.

**Flash Point:** Not available.

**Autoignition Temperature:** Not available.

#### Explosion Limits

**Lower:** Not available.

**Upper:** Not available.

**NFPA Rating:** (estimated)

**Health:** N/a

**Flammability:** N/a

**Instability:** N/a

## Section 6 – Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container.

## Section 7 – Handling and Storage

**Handling:** Avoid breathing dust, mist, or vapor. Avoid contact with skin and eyes.

**Storage:** Store in a tightly closed container. Deep freeze (below -20°C).

## Section 8 – Exposure Controls, Personal Protection

**Engineering Controls:** Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits**

| Chemical Name                                 | ACGIH       | NIOSH       | OSHA - Final PELs |
|---|-------------|-------------|-------------------|
| (2S,4S)-4-Methylglutamic acid . hydrochloride | none listed | none listed | none listed       |

**OSHA Vacated PELs:** (2S,4S)-4-Methylglutamic acid . hydrochloride: No OSHA Vacated PELs are listed for this chemical.

**Personal Protective Equipment**

**Eyes:** Not available.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Section 9 – Physical and Chemical Properties

|                        |               |                           |               |
|------------------------|---------------|---------------------------|---------------|
| Physical State         | Solid         | Odor                      | Odorless      |
| pH                     | Not available | Vapor Pressure            | Not available |
| Vapor Density          | Not available | Evaporation Rate          | Not available |
| Viscosity              | Not available | Boiling Point             | Not available |
| Freezing/Melting Point | Not available | Decomposition Temperature | Not available |
| Solubility             | Not available | Specific Gravity/Density  | Not available |
| Molecular Formula      | C6H11NO4.HCl  | Molecular Weight          | 161.0813      |

## Section 10 – Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Not available.

**Incompatibilities with Other Materials:** Not available.

**Hazardous Decomposition Products:** Nitrogen oxides, carbon monoxide, carbon dioxide.

**Hazardous Polymerization:** Will not occur.

## Section 11 – Toxicological Information

|                      |                   |                |                   |
|----------------------|-------------------|----------------|-------------------|
| RTECS#               | Unlisted          | LD50/LC50      | Not available     |
| Epidemiology         | No data available | Teratogenicity | No data available |
| Reproductive Effects | No data available | Mutagenicity   | No data available |
| Neurotoxicity        | No data available | Other Studies  | No data available |

**Carcinogenicity:** CAS# 160806-12-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

## Section 12 – Ecological Information

No information available.

## Section 13 – Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

## Section 14 – Transport Information

**US DOT**

**Shipping Name:** Not regulated as a hazardous material.

**Hazard Class:** Not regulated as a hazardous material.

**UN Number:** Not regulated as a hazardous material.

**Packing Group:** Not regulated as a hazardous material.

## Section 15 – Regulatory Information

**US FEDERAL**

**TSCA:** CAS# 160806–12–2 is not listed on the TSCA inventory. It is for research and development use only.

**Health & Safety Reporting List:** None of the chemicals are on the Health & Safety Reporting List.

**Chemical Test Rules:** None of the chemicals in this product are under a Chemical Test Rule.

**Section 12b:**

None of the chemicals are listed under TSCA Section 12b.

**TSCA Significant New Use Rule:**

None of the chemicals in this material have a SNUR under TSCA.

**CERCLA Hazardous Substances and corresponding RQs:**

None of the chemicals in this material have an RQ.

**SARA Section 302 Extremely Hazardous Substances:**

None of the chemicals in this product have a TPQ.

**Section 313:** No chemicals are reportable under Section 313.

**Clean Air Act:**

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

**Clean Water Act:**

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**OSHA:**

None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE CAS# 160806–12–2** is not present on state lists from CA, PA, MN, MA, FL, or NJ.

**California Prop 65**

**California No Significant Risk Level:** None of the chemicals in this product are listed.

**European/International Regulations**

**European Labeling in Accordance with EC Directives**

**Hazard Symbols:**

Not available.

**Risk Phrases:**

Not available.

**Safety Phrases:**

S 24/25

Avoid contact with skin and eyes.

**WGK (Water Danger/Protection)**

CAS# 160806–12–2: No information available.

**Canada – DSL/NDSL**

None of the chemicals in this product are listed on the DSL or NDSL list.

**Canada – WHMIS**

Not available.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

**Canadian Ingredient Disclosure List**

Not available.

**Section 16 – OTHER INFORMATION**

*The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.*

12/28/2011