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## Material Safety Data Sheet

### 1,1-Cyclohexanediactic Acid Mono Amide MSDS

#### Section 1: Chemical Product and Company Identification

**Product Name:** 1,1-Cyclohexanediactic Acid Mono Amide

**Catalog Codes:** Not available

**CAS#:** 99189-60-3

**RTECS:** Not available

**TSCA:** TSCA 8(b) inventory: No products were found.

**CI#:** Not available.

**Synonym:** CAM; 3,3-Pentamethyleneglutaramic acid

**Chemical Name:** 1,1-Cyclohexanediactic Acid Mono Amide

**Chemical Formula:** C10H18N2O2

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#### Section 2: Composition and Information on Ingredients

**Composition:**

Name	CAS#	% by Weight
1,1-Cyclohexanediactic Acid Mono Amide	99189-60-3	100%

**Toxicological Data on Ingredients:** 1,1-Cyclohexanediactic Acid Mono Amide: ORAL (LD50): Not available; Acute: Not available.

### Section 3: Hazards Identification

#### EMERGENCY OVERVIEW

Not available.

#### Potential Health Effects

Eye: May cause eye irritation. Skin: May cause skin irritation. May be harmful if absorbed through the skin. Ingestion: May cause irritation of the digestive tract. May be harmful if swallowed. Inhalation: May cause respiratory tract irritation. May be harmful if inhaled. Chronic: 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 and Explosion Hazard Data

#### 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.

### 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, vapor, mist, or gas. Avoid contact with skin and eyes.

#### Storage:

Store in a cool, dry place. Store in a tightly closed container.

### Section 8: Exposure controls/personal protection

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

**Personal Protection:** Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

**Personal Protection in Case of a Large Spill:**

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:** Not available.

## Section 9: Physical and chemical properties

**Physical state and appearance:** Powder (Crystalline solid.)

**Odor:** Not available.

**Taste:** Not available.

**Molecular Weight:** 198.26 g/mole

**Color:** White. Off-white.

**pH (1% soln/water):** Not applicable.

**Boiling Point:** Not available.

**Melting Point:** 141-146°C

**Critical Temperature:** Not available.

**Specific Gravity:** 1.135g/cm<sup>3</sup>

**Vapor Pressure:** Not applicable.

**Vapor Density:** Not available.

**Volatility:** Not available.

**Odor Threshold:** Not available.

**Water/Oil Dist. Coeff.:** Not available.

**Ionicity (in Water):** Not available.

**Dispersion Properties:** Not available.

**Solubility:** Not available.

## Section 10: Stability and reactivity

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Excess heat, dust generation, incompatible materials, light

**Incompatibility with various substances:** Strong oxidizing agents, acids, acid chlorides, carbon dioxide, acid anhydrides.

**Corrosivity:** Not available.

**Special Remarks on Reactivity:** Not available.  
**Special Remarks on Corrosivity:** Not available.  
**Polymerization:** Will not occur.

### Section 11: Toxicological information

**Routes of Entry:** Inhalation. Ingestion.  
**Toxicity to Animals:** Acute oral toxicity (LD50): Not available.  
**Chronic Effects on Humans:** Not available.  
**Other Toxic Effects on Humans:** Not available.  
**Special Remarks on Toxicity to Animals:** Not available.  
**Special Remarks on Chronic Effects on Humans:** Not available.  
**Special Remarks on other Toxic Effects on Humans:** Not available.

### Section 12: Ecological information

**Ecotoxicity:** Not available.  
**BOD5 and COD:** Not available.  
**Products of Biodegradation:** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.  
**Toxicity of the Products of Biodegradation:** The product itself and its products of degradation are not toxic.  
**Special Remarks on the Products of Biodegradation:** Not available.

### Section 13: Disposal considerations

**Waste Disposal:**  
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

### Section 14: Transport information

**DOT Classification:** Not a DOT controlled material (United States).  
**Identification:** Not applicable.  
**Special Provisions for Transport:** Not applicable.

### Section 15: Regulatory information

#### European/International Regulations

European Labeling in Accordance with EC Directives  
Hazard Symbols: Not available.  
Risk Phrases:  
Safety Phrases: S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection) :

CAS# 99189-60-3: No information available.

**United Kingdom Occupational Exposure Limits**

United Kingdom Maximum Exposure Limits

**Canada**

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

CAS# 99189-60-3 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

**US FEDERAL**

TSCA: CAS# 99189-60-3 is not listed on the TSCA inventory. It is for research and development use only.

**Section 16: Other Information**

**References:** Not available.

**Other Special Considerations:** Not available.

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