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## Material Safety Data Sheet

### N-Vinyl Caprolactam

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

**Product Name:** N-Vinyl Caprolactam

**Catalog Codes:** Not available

**CAS#:** 2235-00-9

**EINECS#:** 218-787-6

**TSCA:** Not available

**CI#:** Not available

**Synonym:** 1-vinylhexahydro-2h-azepin-2-one;1-ethenylazepan-2-one;

**Chemical Name:** N-Vinyl Caprolactam

**Chemical Formula:** C<sub>8</sub>H<sub>13</sub>NO

**Contact Information for Emergency:** (0086) 551 65418681

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

**Composition:**

Name	CAS #	% by Weight
N-Vinyl Caprolactam	2235-00-9	100

**Toxicological Data on Ingredients:** N-Vinyl Caprolactam: Not available

### Section 3: Hazards Identification

#### Emergency Overview

##### OSHA Hazards

Harmful by ingestion., Irritant

##### GHS Label elements, including precautionary statements



Pictogram

Signal word                      Danger

Hazard statement(s)

H302                                Harmful if swallowed.

H318                                Causes serious eye damage.

Precautionary statement(s)

P280                                Wear protective gloves/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.

#### HMIS Classification

Health hazard: 2

Flammability: 1

Physical hazards: 0

#### NFPA Rating

Health hazard: 2

Fire: 1

Reactivity Hazard: 0

#### Potential Health Effects

**Inhalation**        May be harmful if inhaled. Causes respiratory tract irritation.

**Skin**                      May be harmful if absorbed through skin. Causes skin irritation.

**Eyes**                      Causes eye irritation.

**Ingestion**        Harmful if swallowed.

### Section 4: First Aid Measures

#### General advice

Remove contaminated clothing.

#### Inhalation

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. If breathing difficulties develop, aid in breathing and seek immediate medical attention.

#### Skin contact

Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

#### Eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Seek medical attention.

**Swallowed**

Rinse mouth and then drink plenty of water. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Seek medical attention.

**Section 5: Fire and Explosion Data**

**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.

**Section 6: Accidental Release Measures**

**Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

**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.

**Section 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**

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

**Section 8: Exposure Controls/Personal Protection**

Contains no substances with occupational exposure limit values.

**Personal protective equipment**

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection:** Handle with gloves.

**Eye protection:** Safety glasses with side-shields conforming to EN166

**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.

<b>Section 9: Physical and Chemical Properties</b>	
<b>Appearance</b>	
Form	solid
<b>Safety data</b>	
PH	no data available
Melting point	35 - 38 °C (95 - 100 °F) - dec.
Boiling point	128 °C (262 °F) at 28 hPa (21 mmHg) - lit.
Flash point	101 °C (214 °F) - closed cup
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Density	1.029 g/mL at 25 °C (77 °F)
Water solubility	no data available

<b>Section 10: Stability and Reactivity Data</b>
<b>Chemical stability:</b> Stable under recommended storage conditions.
<b>Conditions to avoid:</b> no data available
<b>Materials to avoid:</b> acids, Oxidizing agents, Polymerizing initiators
<b>Hazardous decomposition products:</b> Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

<b>Section 11: Toxicological Information</b>
<b>Acute toxicity</b>
<b>Skin corrosion/irritation</b>
<b>Serious eye damage/eye irritation :</b> no data available
<b>Respiratory or skin sensitization:</b> no data available
<b>Germ cell mutagenicity:</b> no data available
<b>Carcinogenicity</b>
<b>IARC:</b> 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.
<b>ACGIH:</b> No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
<b>NTP:</b> No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
<b>OSHA:</b> No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
<b>Reproductive toxicity:</b> no data available
<b>Specific target organ toxicity - single exposure (GHS):</b> no data available
<b>Specific target organ toxicity - repeated exposure (GHS):</b> no data available

<p><b>Aspiration hazard:</b> no data available</p> <p><b>Potential health effects</b></p> <p><b>Inhalation</b>      May be harmful if inhaled. Causes respiratory tract irritation.</p> <p><b>Ingestion</b>      Harmful if swallowed.</p> <p><b>Skin</b>              May be harmful if absorbed through skin. Causes skin irritation.</p> <p><b>Eyes</b>              Causes eye irritation.</p> <p><b>Signs and Symptoms of Exposure</b></p> <p>To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.</p> <p><b>Additional Information</b></p>
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<p><b>Section 12: Ecological Information</b></p> <p><b>Toxicity:</b> no data available</p> <p><b>Persistence and degradability:</b> no data available</p> <p><b>Bioaccumulative potential:</b> no data available</p> <p><b>Mobility in soil:</b> no data available</p> <p><b>PBT and vPvB assessment:</b> no data available</p> <p><b>Other adverse effects:</b> no data available</p>
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<p><b>Section 13: Disposal Considerations</b></p> <p><b>Product</b></p> <p>Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.</p> <p><b>Contaminated packaging</b></p> <p>Dispose of as unused product.</p>
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<p><b>Section 14: Transport Information</b></p> <p><b>DOT (US)</b>      Not dangerous goods</p> <p><b>IMDG</b>            Not dangerous goods</p> <p><b>IATA</b>             Not dangerous goods</p>
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<p><b>Section 15: Other Regulatory Information</b></p> <p><b>OSHA Hazards</b></p> <p>Harmful by ingestion., Irritant</p> <p><b>DSL Status</b></p> <p>All components of this product are on the Canadian DSL list.</p> <p><b>SARA 302 Components</b></p> <p>SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.</p>
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**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute Health Hazard

**Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**

N-Vinyl Caprolactam                      CAS-No. 2235-00-9                      Revision Date

**New Jersey Right To Know Components**

N-Vinyl Caprolactam                      CAS-No. 2235-00-9                      Revision Date

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Section 16: Other Information**

**References:** Not available.  
**Other Special Considerations:** Not available.  
**Created:** 10/09/2005 06:31 PM  
**Last Updated:** 05/21/2015 12:00 PM

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we m be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.*