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Hefei TNJ Chemical Industry Co.,Ltd.

B911 Xincheng Business Center,
Qianshan Rd. Hefei 230022 China

Tel : (0086) 551 65418695

Fax: (0086) 551 65418697

Email: info@tnjchem.com

Site: www.tnjchem.com

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: C₈H₁₃NO

Contact Information for Emergency: (0086) 551 65418681

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B911 Xincheng Business Center

Tel : (0086) 551 65418695

Qianshan Road, Hefei

Fax: (0086) 551 65418697

230004Anhui

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China

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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. Recommended storage temperature: 2 - 8 °C

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.

Section 9: Physical and Chemical Properties	
Appearance	
Form	solid
Safety data	
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

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

Section 11: Toxicological Information
Acute toxicity
Skin corrosion/irritation
Serious eye damage/eye irritation : no data available
Respiratory or skin sensitization: no data available
Germ cell mutagenicity: no data available
Carcinogenicity
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.
ACGIH: 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.
NTP: 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.
OSHA: 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.
Reproductive toxicity: no data available
Specific target organ toxicity - single exposure (GHS): no data available
Specific target organ toxicity - repeated exposure (GHS): no data available

<p>Aspiration hazard: no data available</p> <p>Potential health effects</p> <p>Inhalation May be harmful if inhaled. Causes respiratory tract irritation.</p> <p>Ingestion Harmful if swallowed.</p> <p>Skin May be harmful if absorbed through skin. Causes skin irritation.</p> <p>Eyes Causes eye irritation.</p> <p>Signs and Symptoms of Exposure</p> <p>To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.</p> <p>Additional Information</p>

<p>Section 12: Ecological Information</p> <p>Toxicity: no data available</p> <p>Persistence and degradability: no data available</p> <p>Bioaccumulative potential: no data available</p> <p>Mobility in soil: no data available</p> <p>PBT and vPvB assessment: no data available</p> <p>Other adverse effects: no data available</p>
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<p>Section 13: Disposal Considerations</p> <p>Product</p> <p>Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.</p> <p>Contaminated packaging</p> <p>Dispose of as unused product.</p>

<p>Section 14: Transport Information</p> <p>DOT (US) Not dangerous goods</p> <p>IMDG Not dangerous goods</p> <p>IATA Not dangerous goods</p>
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<p>Section 15: Other Regulatory Information</p> <p>OSHA Hazards</p> <p>Harmful by ingestion., Irritant</p> <p>DSL Status</p> <p>All components of this product are on the Canadian DSL list.</p> <p>SARA 302 Components</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.