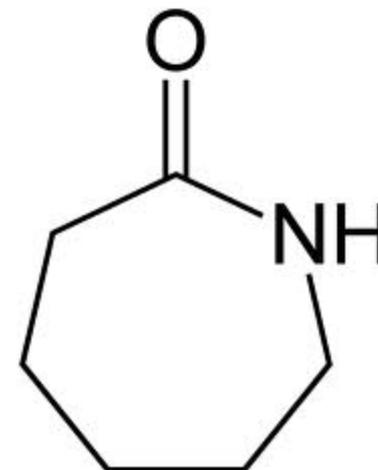


Conversion of Cyclic Amines into Lactams for Synthesis of Nylons

Industry Need:

Traditional commercial process for making lactams, which are important starting materials for production of nylon, solvents and other polymers, uses highly corrosive sulfuric acid and generates ammonium sulfate as a by-product



Solution:

A novel catalyst that converts cyclic amines into lactams using an environmentally friendly process

About the Technology

- **Enables** synthesis of lactams used for a variety of commercial applications
- **Process** does not use highly corrosive sulfuric acid or generate ammonium sulfate by product
- **Does not** require high pressure equipment
- **Uses** different starting materials than traditional routes to lactams



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Iowa State University Research Foundation, Inc.
Office of Intellectual Property and Technology Transfer

Application Areas

- Synthesis of nylons and other polymers



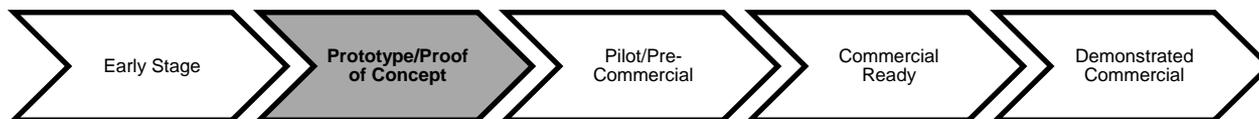
Conversion of Cyclic Amines into Lactams: Licensing/Commercialization Opportunity

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Status

- **Development Stage:**



- **Intellectual Property Status:**

- Patent pending
- ISURF #3800

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Conversion of Cyclic Amines into Lactams: Licensing/Commercialization Opportunity