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**U.S. Amines**  
An AdvanSix company.



## Consistent, reliable supply from a trusted partner

As the sole producer of Mono-Cyclohexylamine (CHA) in North America, U.S. Amines, an AdvanSix company, takes pride in our legacy of success and our strong track record in serving as a trusted partner.

Since becoming a part of the AdvanSix team in 2021, we provide customers with the high-quality synthetic alkyl and allyl amines used in a variety of end markets, including agriculture, pharmaceutical, and water treatment.

From protecting crops to keeping boilers clean, our alkyl and allyl amines are essential building blocks for products that touch people's daily lives.

## HIGH-QUALITY PRODUCT PROUDLY PRODUCED IN THE USA

Mono-Cyclohexylamine (CHA) is a versatile chemical, serving as a valuable intermediate in the production of various a diverse range of products.

This versatile compound is a colorless, flammable liquid characterized by its distinctive strong fishy odor. As a key raw material in various industrial processes, CHA offers a unique set of properties that make it a valuable asset across multiple sectors.

## PRODUCT SPECIFICATIONS

ASSAY	SPECIFICATIONS
Cyclohexylamine (Assay)	99.5 wt % min.
Water	0.2 wt % max.
Platinum-Cobalt Color	20 max.

## KEY FEATURES AND PROPERTIES OF CHA:

- **Exceptional solubility:** CHA readily dissolves in water, ethanol, benzene and ethyl acetate, enhancing its utility in diverse chemical applications.
- **Stability you can count on:** Under recommended storage conditions, CHA maintains its integrity, ensuring consistent performance for your operations.
- **Versatile applications:** From corrosion inhibition to rubber processing, CHA's adaptability makes it a key player in numerous industries.
- **Chemical reactivity:** As a primary amine, CHA participates in various chemical reactions, making it valuable in organic synthesis.
- **Boiling point:** CHA boils at approximately 134°C (273°F), making it suitable for a wide range of industrial processes.
- **Low freezing point:** With a freezing point of -17.7°C (0°F), CHA remains liquid under most operating conditions.

We continue to optimize our processes to meet the highest industry standards. Our state-of-the-art facilities employ cutting-edge technology to deliver a product that is consistently high in purity and yield. Whether you are developing corrosion inhibitors, refining petroleum products or innovating in rubber processing, our CHA will fuel your success.

## KEEPING WATER SYSTEMS CLEAN

Our high-quality Mono-Cyclohexylamine (CHA) plays a crucial role in safeguarding water and boiler systems across industries. We supply major distributors and contract development and manufacturing organizations (CDOs/CMOs) in the water treatment sector, ensuring their facilities operate reliably and efficiently.

With its low cost and ready availability, CHA's make for an invaluable asset in preventing corrosion in boiler feed water systems. It works through multiple mechanisms to protect vital infrastructure:

- **Neutralization:** CHA effectively neutralizes acidic compounds, maintaining optimal pH levels and preventing corrosive conditions.
- **Protective film formation:** CHA is capable of forming a robust protective film on metal surfaces, creating a barrier against corrosive elements.
- **Oxygen scavenging:** By reacting with oxygen, CHA can significantly reduce oxidation and extend the life of system components.
- **Scale prevention:** CHA helps prevent scale formation, ensuring efficient heat transfer and system performance.

These multifaceted benefits make CHA a go-to solution for water treatment professionals seeking to maximize system longevity, minimize downtime and optimize operational efficiency.

## A MULTIFACETED CHEMICAL COMPOUND

CHA's versatility extends far beyond its crucial role in water treatment. This adaptable compound serves as a key intermediate in the production of a wide array of products that touch various aspects of our daily lives. In the agricultural sector, CHA contributes to the formulation of effective insecticides, helping protect crops and ensure food security. It's also integral in the manufacturing of plasticizers, enhancing the flexibility and durability of plastics used in countless applications. CHA plays a part in the textile industry, too, as a component in dry-cleaning soaps and dyestuffs. In the rubber industry, it is utilized in the production of essential rubber chemicals. Additionally, CHA is valuable in the creation of gas absorbents, contributing to air purification technologies.



## HOW TO HANDLE CHA

Before working with CHA, it's crucial to thoroughly review the [Safety Data Sheet](#). Always keep containers closed when not in use and open them slowly to allow excess pressure to vent. Keep CHA away from heat, sparks, flames, and other ignition sources. When loading, unloading, or transferring CHA, use proper electrical grounding and bonding procedures. Consult the U.S. Amines Safety Data Sheet for information on materials to avoid. Use spark-resistant tools and ensure all electrical equipment and circuits in storage and handling areas conform to national electrical code requirements for hazardous locations (Articles 500 and 501).

## STORAGE RECOMMENDATIONS

- **Recommend blanketing with dry nitrogen**
- **Temperature range: -1.1-37.8°C (0-80°F)**
- **Storage pressure: Atmospheric**
- **If acquiring in bulk, store in outside, detached tanks**
- **If acquiring in small quantities, store in cool, dry and well-ventilated area**

## THE ADVANSIX DIFFERENCE

Our high-quality synthetic alkyl and allyl amines are powering innovations across a diverse array of sectors. Our unwavering commitment to quality has made our CHA the go-to choice for agrochemicals and feed producers, as well as chemical manufacturers, both in the USA and globally.

## HIGH-QUALITY PRODUCT WHEN YOU NEED IT

Readily available and shipping directly from our Bucks, Alabama, U.S.A. facility, we ensure fast delivery while eliminating the need for high inventory levels on your end. Whether you require large volumes via rail cars, trucks or ISO containers, or smaller quantities made available through our valued distribution partners, we're equipped to meet your needs.

## PARTNERSHIP EVERY STEP OF THE WAY

Our commitment to excellence extends beyond our products – we also pride ourselves on providing unparalleled customer service and technical support to customers, no matter their location. Our dedicated team and their product-specific expertise, stands ready to assist you promptly and effectively. This deep knowledge ensures we can address your unique needs with precision and efficiency.

At U.S. Amines, an AdvanSix company, we don't just produce materials; we forge partnerships. By collaborating closely with our customers, we gain deep insights into their requirements, allowing us to tailor our offerings and provide customized solutions. Choose us for reliable, efficient and high-quality amines, backed by best-in-class service and support.

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## NOTE

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## CONTACT ADVANSIX

Contact AdvanSix to learn more about the benefits of Mono-Cyclohexylamine (CHA).

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