

Integrated Safety for Improved Human Health

"The chemistry required to manufacture life-saving active pharmaceutical ingredients (APIs) can be demanding and complicated. Cambrex Pharma offers the integrated safe handling solution," says Ann Gidner, Director of Commercial Development and Marketing.

CAMBREX IS a global, diversified life sciences company dedicated to providing innovative products and services to accelerate drug discovery, development, and manufacturing processes for its customers focused on human health and the prevention of disease. The company employs over 1,900 worldwide. Cambrex Corporation is organised into four business units to better serve the unique requirements of its customers. One of the business units, Cambrex Pharma, provides custom development and manufacturing services to pharmaceutical companies using an organic chemistry technology platform.

One of the largest sites within Cambrex Pharma is Cambrex Karlskoga in Sweden.

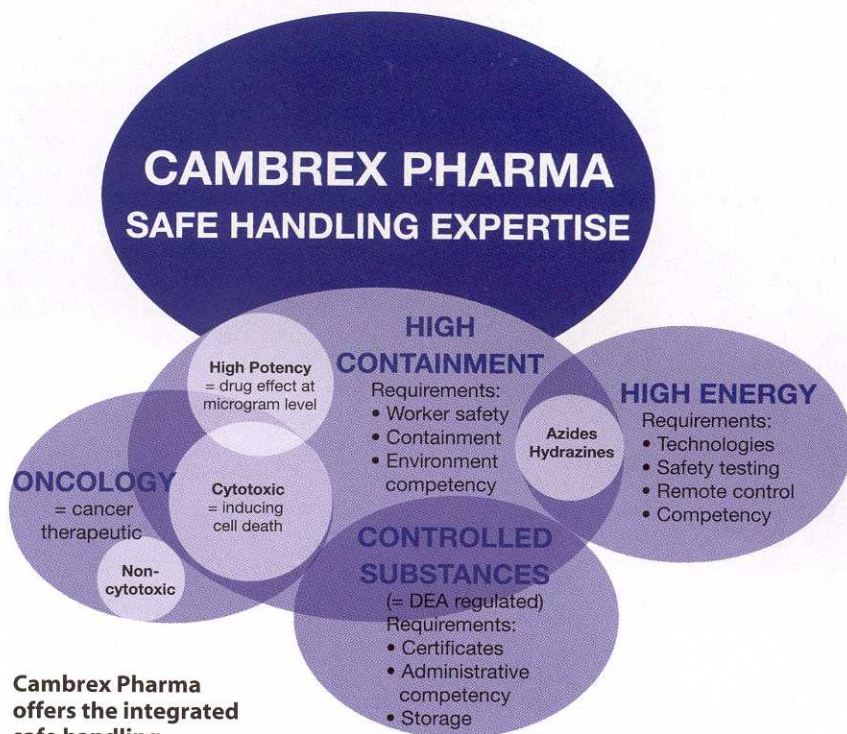
The safe handling concept includes High Energy, Controlled Substances and High Containment.

High Energy

Many APIs are based on processes and compounds that are highly energetic, which means that they can be both complicated and dangerous to handle.

"We are one of few suppliers in the world that can safely handle these explosive processes under cGMP. Cambrex Karlskoga has its origin in the technology of Alfred Nobel and has proudly managed his heritage and built upon this competency to manufacture active pharmaceutical ingredients," comments Ann Gidner.

Cambrex Pharma has in-house safety testing, advanced scale-up models and a



Cambrex Pharma offers the integrated safe handling solution.

remote-controlled plant.

Controlled Substances

Some pharmaceutical ingredients have the potential for abuse. As a result, all manufacturing and handling of these materials must comply with strict regulations and controls to avoid diversion. Certain examples of these types of therapeutics are amphetamine derivatives (for the treatment of attention deficit and hyperactivity in children), morphine (for pain relief), and other products used for pain management. Certain facilities have been certified to handle these controlled substances, including the required administrative competency and special storage.

"Many pharmaceutical companies outsource the production of controlled substances, since they do not have the capabilities in-house," says Ann Gidner.



Ann Gidner, Director of Commercial Development and Marketing.

High Containment

Active Pharmaceutical Ingredients that require high containment are substances that have a drug effect at microgram level, which means they are highly potent. These processes

require specialised containment to ensure that employees and the environment are protected from exposure. Facilities within Cambrex Pharma handle highly contained processes under safe cGMP conditions.

Many oncology drugs used to treat cancer are highly potent and need to be manufactured in a high containment area.

"Oncology is a future area as cancer research is making a lot of progress for each year that passes. We would like to be part of it and contribute to new pharmaceuticals," says Ann Gidner.

Cambrex Pharma is expanding its capabilities and building a new cGMP kilo laboratory to manufacture APIs for oncology drugs.

Cambrex Pharma is a business unit of Cambrex Corporation and is comprised of facilities in Sweden and the United States to serve the global pharmaceutical industry. ■