



INDUSTRY REPORT

# The Future of Sustainable Logistics in Pharmaceuticals

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+1 (830) 438-0395

info@callanjmb.com

callanjmb.com

## The Future of Sustainable Logistics in Pharmaceuticals

✓ The pharmaceutical supply chain is undergoing a seismic shift toward sustainability, **driven by environmental imperatives, rising consumer expectations, and regulatory pressures.** This change is particularly evident in the thermal shipping industry, where using abundant materials to maintain temperature control is critical for preserving the efficacy of drugs, vaccines, and biologics.

### 40% of global plastic waste comes from packaging.

Measured in tonnes per year. Data for 2019.



Data Source: Our World In Data / OECD 2022

**Packaging accounts for 37%<sup>[1]</sup> of plastic waste in the United States**, contributing significantly to pollution. Recycling can reduce these impacts, but **only about 9%<sup>[2]</sup> of the plastic waste has been recycled effectively.** The remainder often **ends up in landfills, incinerated, or polluting the environment**, contributing to the decline in the ecosystem's health through greenhouse gas emissions and threatening wildlife. This is why improved recycling methods are needed to ensure the environment isn't consistently impacted.

Addressing these challenges requires delivering medical products that are both effective and environmentally responsible. Achieving this balance demands innovative packaging and logistics solutions prioritizing environmental responsibility without compromising quality. **Callan JMB is emerging as a leader in this space, pushing boundaries in emergency response, specialty packaging, and supply chain solutions and making a lasting impact on both people and the planet.**



## Recycling, Repurposing, and Striving for Zero Waste

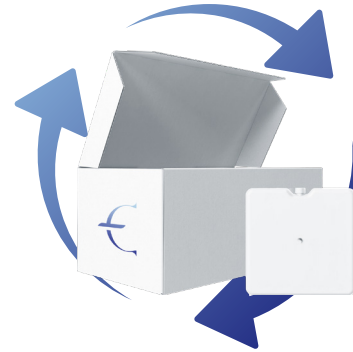
### Traditional Packaging Materials



Traditional packaging materials like Styrofoam are commonly used for medical supply shipments but **often end up in landfills, contributing to environmental waste.**

As the U.S. and the world shift toward greener practices, companies relying on non-sustainable materials may face challenges due to **increasing regulations and potential bans on products like Styrofoam.**

### CALLAN<sup>JMB</sup> Reusable Shippers



**Callan JMB is proactively addressing these concerns.** Its **reusable shippers protect goods** and demonstrate a commitment to sustainability.

**These shippers are part of a renewal cycle and can be repurposed** into community-enhancing products such as park benches and materials for concrete sidewalks.

- ✓ **Callan JMB tracks and responsibly manages materials, including packaging, cardboard, and refrigerant liquids,** ensuring they are recycled and repurposed whenever possible. By reducing landfill contributions, **the company supports efforts toward minimizing environmental impact.**



 CALLAN<sup>JMB</sup>  YouTube

### Revolutionizing Pharmaceutical Shipping: Sustainable Solutions for a Greener Future

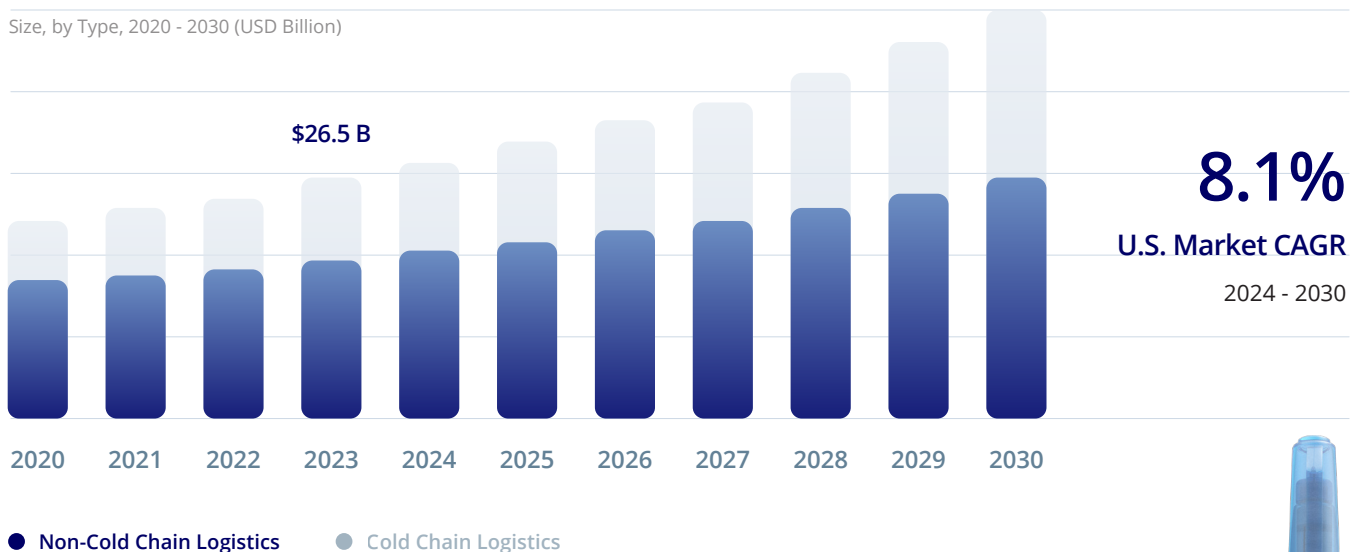
The pharmaceutical industry faces a critical challenge: how to ensure safe, temperature-controlled deliveries while reducing environmental impact.

## How Callan JMB is Meeting the Growing Demand for Temperature-Controlled Shipping Solutions

The demand for secure, temperature-controlled shipping solutions is growing. The global pharmaceutical logistics market size was estimated at **USD \$26.5 billion in 2023** and is projected to grow at a **compound annual growth rate (CAGR) of 8.1% from 2024 to 2030**<sup>[3]</sup>. This highlights the pressure to find the right balance between supply chain efficiency and sustainable practices.

### United States Pharmaceutical Logistics Market

Size, by Type, 2020 - 2030 (USD Billion)



Data Source: Grand View Research

In the United States alone, **over 50 million people**<sup>[4]</sup> are affected by **autoimmune diseases**, many of which require **biological therapies that are highly sensitive to temperature fluctuations**. An estimated **70 million**<sup>[5]</sup> individuals are **eligible for monthly GLP-1 (glucagon-like peptide-1) therapies**, which are used to manage conditions like obesity and diabetes. Like many others, these medications must be kept at consistent temperatures to remain effective and safe.



- ✓ Callan JMB's innovative **temperature-controlled packaging solutions** are designed with the highest safety and reliability standards. The reusable packaging systems **maintain the proper conditions required for sensitive medical products** while using a sustainable alternative to traditional single-use solutions. By preventing the loss of products due to mishandling, the company ensures that these **life-saving treatments reach their destination without compromising both people and the environment**.

## The Sustainability Impact on Drug Pricing

Adopting sustainable packaging practices benefits both the environment and your bottom line. The pharmaceutical industry emits approximately **55%<sup>(6)</sup> more carbon dioxide (CO<sub>2</sub>) greenhouse gases than the automotive sector.**

While eco-friendly packaging options may have higher upfront costs, they can reduce long-term waste management and compliance expenses. For example, lightweight packaging reduces the need for raw materials and energy during production and saves transportation costs, as smaller and lighter packages lower shipping expenses.

## Embrace Sustainable Practices with Callan JMB

- ✓ Callan JMB is ahead of the curve in creating a **more responsible future in the pharmaceutical supply chain.**
- ✓ The company is the right balance between efficiency and sustainability by **integrating innovative packaging solutions, repurposing materials, and committing to zero-waste practices.**
- ✓ Making conscious decisions today can create a world where **public health and the planet thrive together.**



Discover more about Callan JMB's initiatives and how they can support your sustainability goals.

[Visit Callan JMB's Website →](#)





## Sources and References

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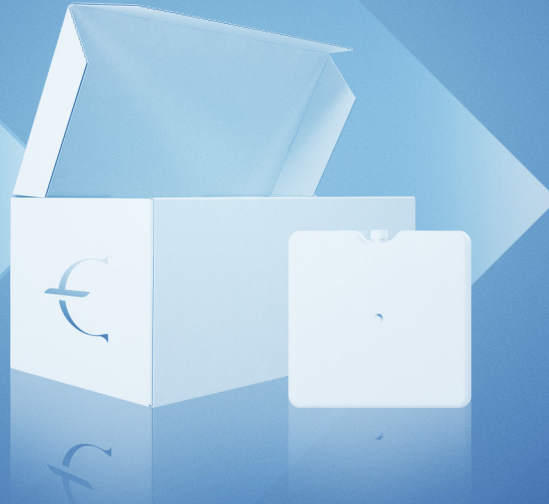
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+1 (830) 438-0395

244 Flightline Drive, Spring Branch, TX 78070

info@callanjmb.com

callanjmb.com