



08:25 AM / DAY 12  
PORT MONTREAL  
VESSEL UNLOADING  
18.6°C  
NO ACTION

Intelligent pharma logistics solutions.

**KNPharmaChain** Superior compliance. Greater reliability.

Sea GXP Compliant

**KUEHNE+NAGEL**



# Knowledge-driven supply chain integrity

Our dedicated, highly trained professionals apply their expertise to provide proven logistics solutions for the pharmaceutical and healthcare industry.

KN PharmaChain delivers reliable, tailored logistics solutions that meet your sector-specific requirements. It integrates proactive and innovative strategies that effectively address legal and regulatory compliance issues – while maintaining the highest standards and rules of professional conduct.

Kuehne + Nagel's extensive global network provides dedicated, pharma GXP compliant branches. These comply with the highest industry standards to ensure the smooth transportation of your products. Our experts apply their in-depth understanding of the cold chain market and reefer technology to ensure optimised processes and excellence throughout your supply chain.

As a trusted industry partner, we have a proven track record in developing solutions that turn your logistics challenges into supply chain advantages and ensure product integrity. We are also committed to minimising our global footprint as we do so by reducing our CO2 emissions and the environmental impact of our logistics activities.

## KN PHARMACHAIN

End-to-end, secure temperature-controlled logistics solutions that meet the highest regulatory standards for the overseas transportation of pharmaceutical and healthcare products.



Kuehne + Nagel provides reefer equipment from all major manufacturers to cover a temperature range of +30°C to -35°C.



## REAL-TIME, IN-TRANSIT TEMPERATURE MONITORING

KN PharmaChain provides global visibility of the location, temperature and security of your goods in real time. This enables you to have far greater control of your temperature-sensitive goods while they are in transit – and lets you manage your supply chain much more effectively.

- Global visibility and monitoring for greater control over your shipments
- Timely alerts about any unexpected events while you track your goods via a route map
- Ability to act while items are in transit, ensuring and maintaining product integrity
- Peace of mind while your sensitive, high-value freight is delivered to its destination

# Seamless security and precise temperature control

Enabling you to successfully manage and meet the highest customer expectations – and tomorrow’s healthcare needs.

We use our expertise to provide visionary concepts that take operational excellence to the next level – and enable you to fully meet tomorrow’s challenges. Our experienced specialists are strategically located around the world to ensure your temperature-sensitive cargo gets the very best care with the latest equipment and monitoring systems.

## KN PHARMACHAIN – VALUE-ADDED SERVICES

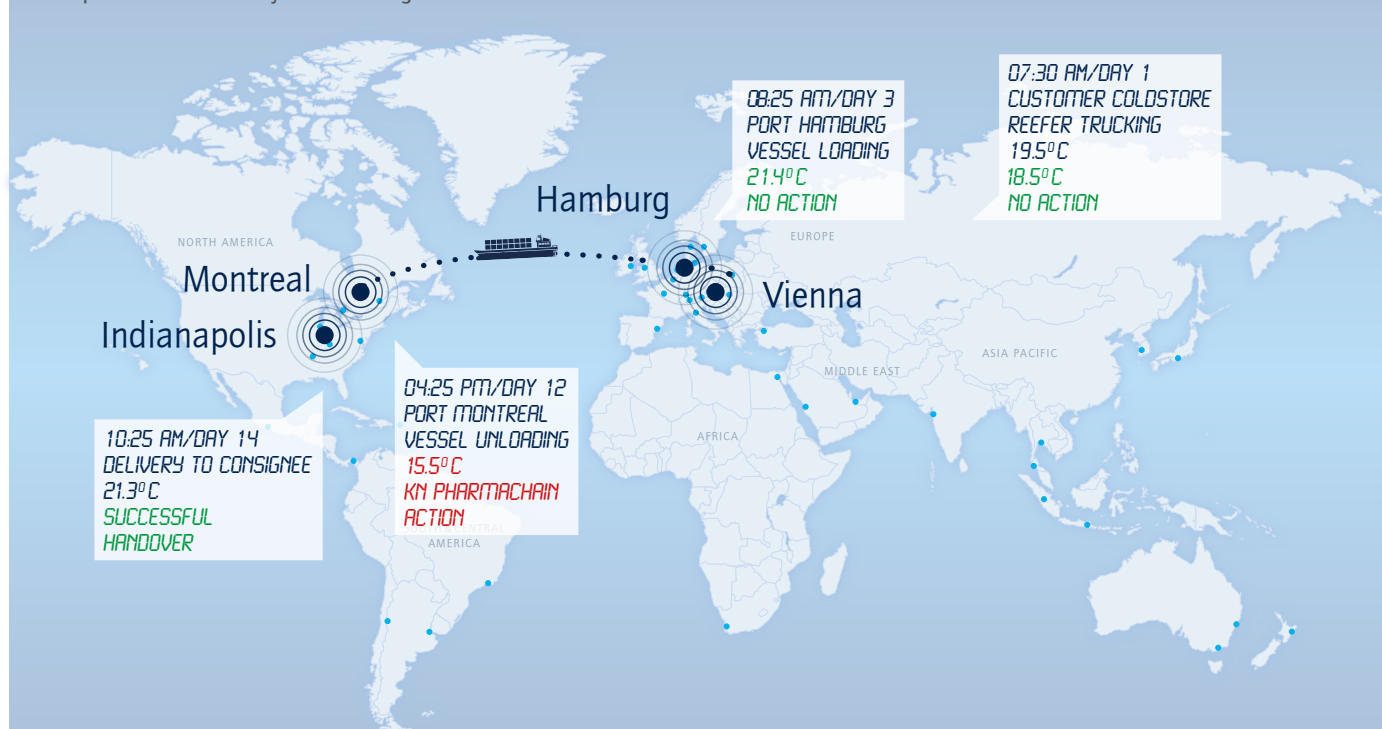
- Advanced in-transit monitoring of temperature, location and door opening/closing – active intervention if any deviation detected
- “Plug Immediately” label to reduce off-power times at terminals, raise risk awareness of all staff and increase supply chain reliability
- Air-to-sea methodology based on best practices to convert airfreight into seafreight with uninterrupted supply during conversion
- Unique pharma service for LCL shipments with collection of shipments by our GXP compliant network
- Comprehensive supply chain/lane risk assessment
- Kuehne + Nagel consultancy and workshops on cold chain loading, packaging and technical reefer options as well as shipment optimisation
- GXP compliant pharma consolidation services for improved container utilisation and cost efficiency

## OUR COMMITMENT TO QUALITY – YOUR COMPETITIVE ADVANTAGE IN THE MARKET

- All KN PharmaChain sites are annually audited and certified based on global and local regulatory requirements
- Global standards based on WHO norms and comprehensive KN PharmaChain policy
- Continuous improvement by global, web-based non-conformity reporting tool (NCR)
- Globally connected network of independent quality assurance professionals
- Supplier management and due diligence processes

## KN PharmaChain – shipment of pharmaceuticals from Vienna to Indianapolis

Temperature monitored by Kuehne + Nagel active sensors



### KN PHARMACHAIN AT A GLANCE

- Global GXP compliant network with specific SOPs for all processes and QA-approved working instructions (based on WHO norms)
- 24/7/365 global visibility with KN Login for customised monitoring and reporting
- Door-to-door control with active sensors to monitor temperature and GPS position with near real-time alerts in case of deviations
- Comprehensive lane risk assessment, plus selection and management of subcontractors
- Best practice standards for facilities as well as regular, specialised reefer, pharma and cold chain training programmes for staff

### KN PHARMACHAIN BENEFITS INCLUDE

- Reduced regulatory concern due to superior compliance
- Greater peace of mind via increased reliability
- Higher levels of transparency through identification of potential transport risks in advance
- Less time spent on day-to-day operational issues
- Reduced losses due to enhanced visibility and traceability – translating to increased customer satisfaction
- Competitive advantage via optimised total cost of product ownership
- Client and patient needs are better served

