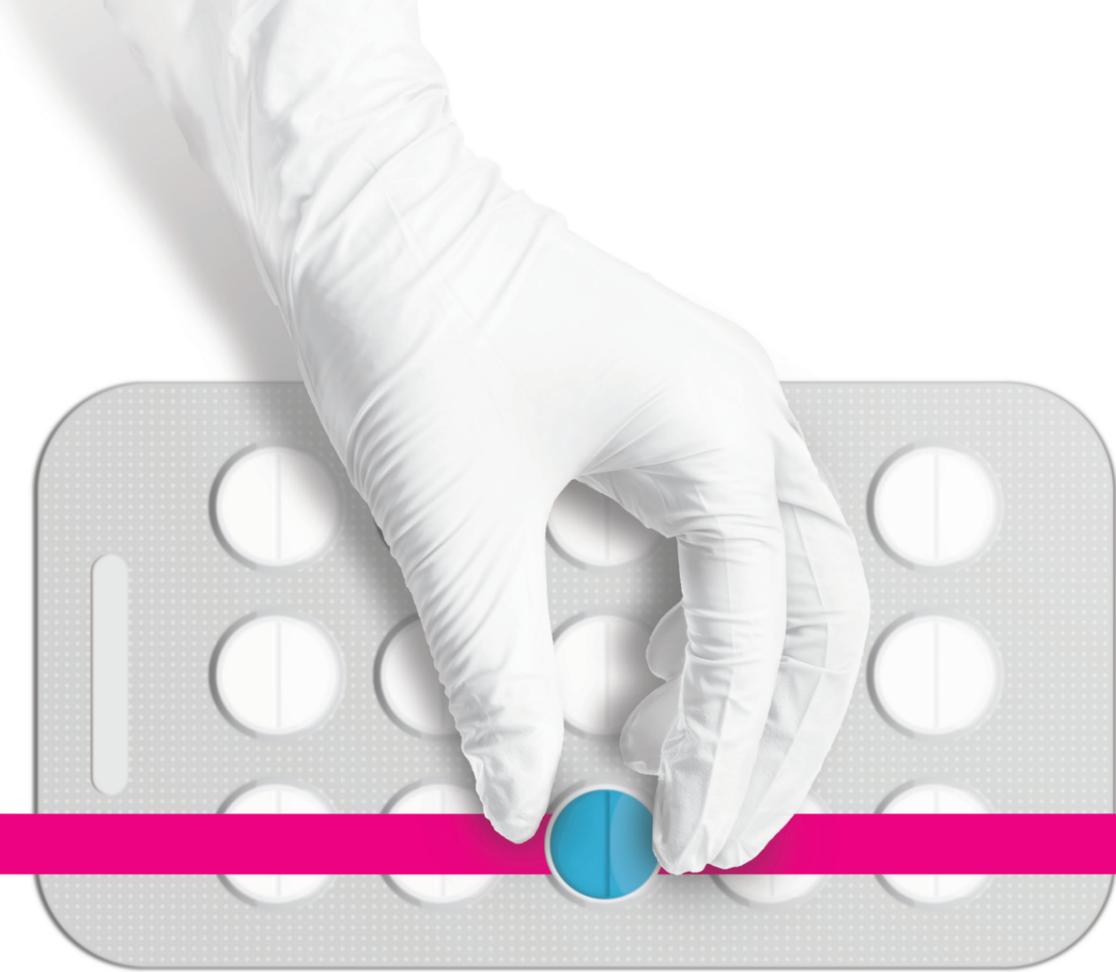




From Lab to Patient

Taking Your Pharma Business Further



HANDLING PHARMACEUTICALS WITH **DELICATE CARE**

Your pharmaceutical shipments will be transported with the highest standards through Changi – thanks to the trusted capabilities of the first and largest IATA Certificate of Excellence for Independent Validators in Pharmaceutical Logistics (CEIV Pharma) certified community in Asia Pacific. Together, Changi Airport offers:



Temperature-controlled environment throughout the airport cool chain



Over 375,000 tonnes of annual cool chain handling capacity (by cargo handlers) with state-of-the-art temperature-controlled infrastructure & equipment



Trained and experienced cool chain specialists



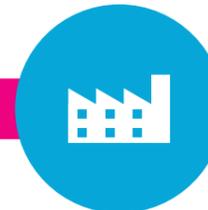
Unparalleled air connectivity and multi-modal solutions

Proven to **Meet** **Your Pharma Needs**

With an internationally recognised reputation for reliability and connectivity, Changi Airport has proven, time and again, that it is the choice air cargo hub for pharmaceutical handling and transportation.

4 of 5

Global Top Pharmaceutical Companies by Revenue have facilities in Singapore



In 2022, the pharmaceutical sector's output produced more than

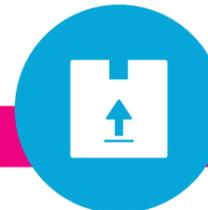
S\$19 billion

worth of products for global markets



>3X

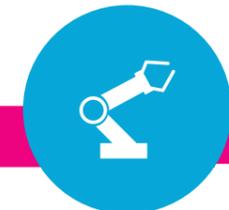
the pharmaceutical sector's output produced in 2022 compared to 2000



That is approximately

11%

of all of Singapore's manufacturing output



Top Pharmaceutical Importer and Exporter in Southeast Asia¹

in 2023 by air trade value.



¹Refers to all pharmaceutical products excluding medical equipment
Source: EDB, Accenture Cargo

A Strong Collaboration for an Unbroken Cool Chain

Extensive capabilities, efficiency and reliability are all brought together through a partnership that covers the entire air cargo supply chain.



First and Largest IATA CEIV Pharma certified community in Asia Pacific¹

Pharma@Changi was formed, together with our air cargo partners, to further enhance our pharmaceutical handling capabilities, by adopting industry best practices in pharmaceutical transportation and assessing emerging pharmaceutical logistics trends and technologies.



¹ by number of companies

Temperature-controlled environment throughout the airport cool chain

- Airside temperature protection equipment and solutions including cool dollies and thermal blankets
- Temperature-controlled truck docks
- Combined cargo handlers' temperature-controlled warehouse annual capacity of above 375,000 tons



State-of-the-art cool chain infrastructure and equipment to support a wide range of temperature requirements

Qualified and experienced cool chain specialists

- Staff trained in accordance to CEIV Pharma requirements
- Accredited specialists for handling dry ice and active containers, e.g. Envirocontainer, CSafe



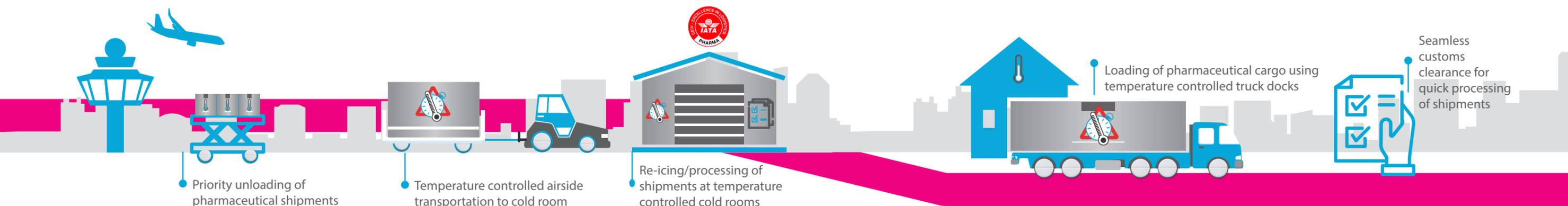
Dedicated trained staff to handle temperature-controlled shipments

Secured Airport Free Trade Zone (FTZ) Environment

- Over 70 hectares of contiguous Airport FTZ, facilitating efficient regional logistics and distribution activities
- Close to 30,000 sqm of temperature-controlled facilities by logistics partners within Airport FTZ
- 24/7 shipment monitoring and security surveillance systems



Efficient and secure handling of pharmaceutical cargo within Airport Free Trade Zone



Unparalleled Connectivity is Just The Beginning



- 
More than 6,700 weekly flights¹ around Asia Pacific and the world
- 
More than 380 weekly freighter flights
- 
Over 110 airlines²
- 
>25 freighter operators
- 
Cross-border trucking networks linking Singapore to neighbouring countries
- 
60-minute or less drive away from PSA, one of the world's largest container port

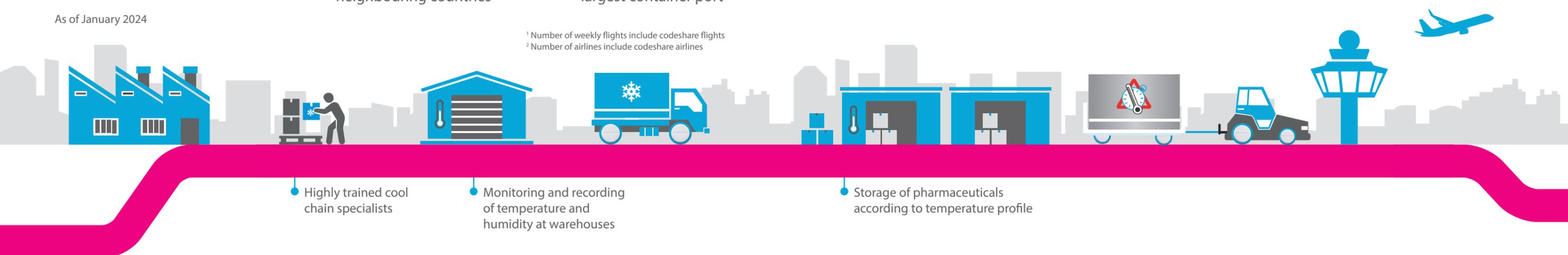
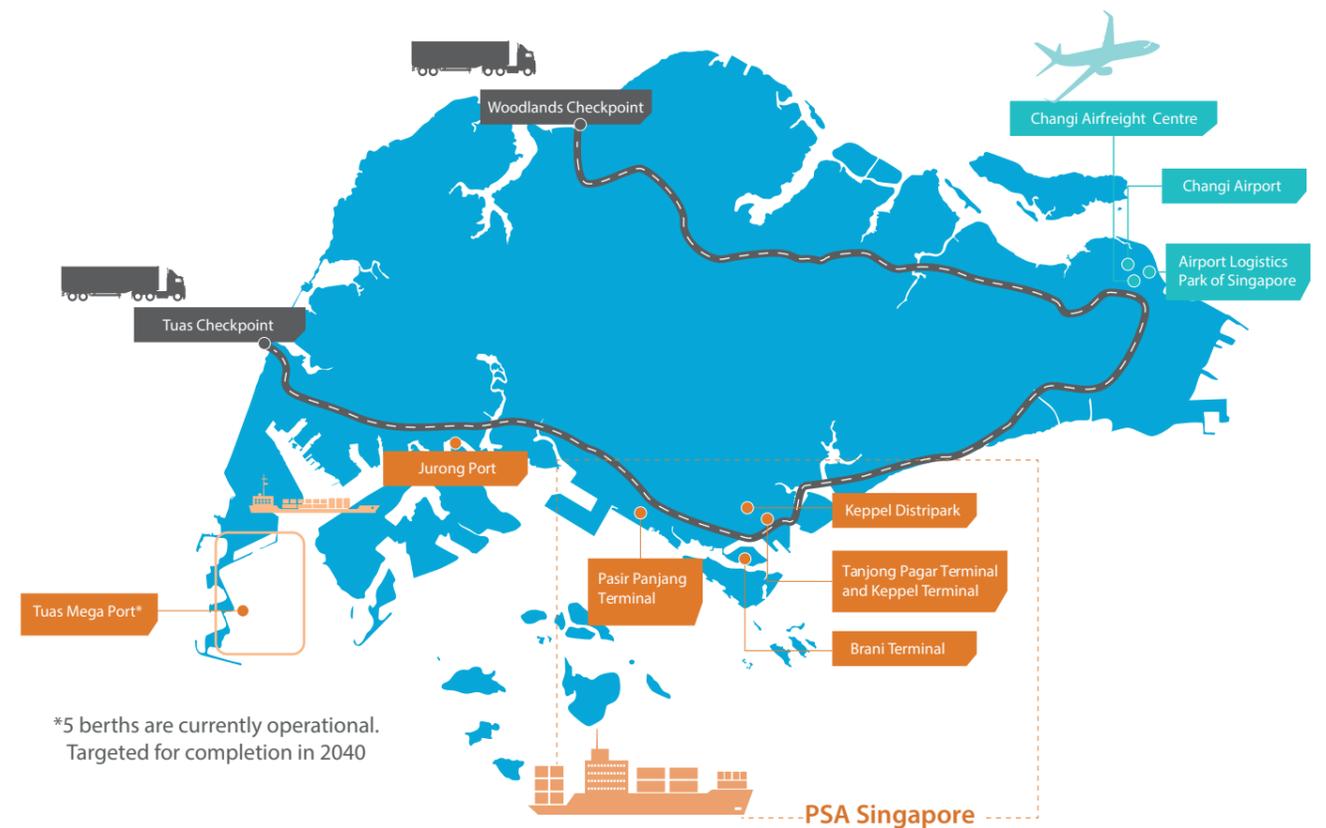
As of January 2024

¹ Number of weekly flights include codeshare flights
² Number of airlines include codeshare airlines

Air-Sea-Road: We've Got It Covered

Reaching a balance between freight cost and time efficiency is easy at Changi. The availability of complementing sea and road networks make multi-modal transshipment at Changi Airport a breeze.

- Less than 60-minute drive away from PSA, one of the world's largest container ports
- Cross-border trucking networks linking Singapore to major cities in Southeast Asia.



COMPANY DESCRIPTION

Since 2006, Bolloré Logistics has been one of Singapore's leaders in healthcare pharmaceutical transport and logistics. We were one of the first in Singapore to receive the CEIV Pharma certification and are experienced in dealing with sensitive goods, such as vaccines. Our end-to-end transportation solutions, which covers global air, ocean, and land freight services, is GDP-compliant under cold chain management standards.

Quality assurance is in place with the practice of standardized global accreditation. In Singapore, we have a dedicated on-site pharmacist and fully GMP / GDP trained team with over 10 years of experience. Customer experience is constantly improving with the integration of digital innovation such as online real-time tracking platform and data analytics.

It is our mission to be part of our customers' supply chain journey, by ensuring the timely, secure delivery of healthcare products to help families, friends, and the world to live better, healthier lives



KEY FEATURES:

Dedicated Healthcare Hub situated in the Airport Free Trade Zone for quick transfer

Direct access to Envirotainer ULD Competence Centre

PHARMA SERVICE OFFERINGS:

- Pharmaceutical storage and regional distribution
- Repacking and redressing capabilities
- Passive and active packaging management
- Product launch management
- Last mile delivery / RDC distribution capabilities
- Cross Docking Solution
- End-to-end Traceability
- Customised solution for special temperature requirements
- Temperature-controlled transportation service
- Battery replacement for Envirotainers
- Gel pack and dry ice replenishment
- Life science & clinical trial logistics
- Next Flight Out (NFO) service



Track and Trace via multiple platforms

24/7 visibility and monitoring shipments via control tower

INFRASTRUCTURE CAPABILITIES & EQUIPMENT (INCLUDING UPCOMING DEVELOPMENTS):

- 6,500 sqm of dedicated healthcare storage within Airport Free Trade Zone with additional availability of mobile freezers
- 3 docks with reefer container charging
- 6 temperature-controlled redressing rooms including one dedicated cytotoxic room
- 24/7 CCTV security monitoring
- Active and passive temperature solutions
- Temperature control with sensors present with alarm/notification system in case of temperature digressions
- Separate secure area within warehouse to prevent pilferage
- Fully GDP Trained staff and compliance managers & on-site pharmacist

SUSTAINABILITY EFFORTS

Bolloré Logistics has included climate and natural resource issues in its strategy.

Some sustainability efforts we implement include:

- Shrink Wrap recycling
- Reconditioned pallet
- Passive packing solution
- Reusable Packaging material such as:
 - o Insulated pallet cover
 - o Kraft paper
 - o Bubble wrap
 - o Pallet

CERTIFICATIONS:



TEMPERATURE HANDLING RANGE CAPABILITIES:

-20°C | Frozen Goods (Mobile Freezers)

+2 to +8°C | Cool Goods

+15 to +25°C | Controlled Room Temperature Goods

Involvement in Global Pharma Associations

- IATA Time and Temperature Workgroup

CONTACT DETAILS:

✉ sin.sales-healthcare@bollore.com

COMPANY DESCRIPTION

CEVA Logistics, a world reference in third-party logistics, provides and operates transportation and supply-chain solutions for large or medium-sized national and multinational companies.

CEVA Logistics offers a broad range of services in both Contract Logistics and Freight Management thanks to 110,000 employees, operating over 1,300 facilities in more than 170 countries.

CEVA Logistics' experienced specialists focus on seamlessly designing end-to-end customized solutions to meet the complex and rapidly evolving supply chain needs whatever the business sector. CEVA Logistics is part of the CMA CGM Group, a world leader in shipping and logistics.

Our fully integrated cold chain transportation and storage management solutions are available across our entire network and include air, ocean, ground, rail, warehousing and distribution services, supported by our strategically positioned temperature-controlled air freight facilities. All facilities are managed by a dedicated team of qualified specialists. With CEVA Logistics, your patient is always our focus.



KEY FEATURES:

Integrated temperature-controlled transportation solution by air, ocean, ground and multi-modal

Full compliance meeting both national and international GxP / FDA / EMA requirements

Active & Passive packaging solutions

Full Visibility and Control with customer specific control towers to monitor shipments en route 24/7

Strategically located within Airport Free Trade Zone for quick transfer

PHARMA SERVICE OFFERINGS:

- Control-tower support with contingency planning
- Temperature monitoring and reporting
- Dry ice top-up and gel-pack replenishment
- Custom brokerage
- Cross-stock, staging and re-labeling
- Passive and active packaging
- Short-term product storage
- Consolidation and shipment preparation
- Regulatory clearance and/or deconsolidation

INFRASTRUCTURE CAPABILITIES & EQUIPMENT:

The CEVA Cold Chain Centre at 80 Alps Avenue is our APAC gateway for cold chain shipments within Asia Pacific, offering customers the following benefits:

- Enhanced temperature protection for shipments in transit with 1,000 sqm of temperature-controlled facility
- Value-added services such as dry ice replenishment, package reconditioning, relabeling, cross-stocking and re-distribution
- Air/ground/ocean delivery to Singapore and other Asia Pacific destinations

SUSTAINABILITY EFFORTS

CEVA is consistently putting an effort to reach our net zero target in 2050. We are committed to reducing our environmental impact and making a positive contribution to the fight against climate change.

Here are some of our recent initiatives related to warehouses:

- Installing solar panels on all of our warehouses (target: 2.1 million sqm by 2025; on track to reach 1.1 million sqm by the end of 2023)
- Installing LED lighting in all of our warehouses (target: 100% by 2025; on track to reach 93% by the end of 2023)
- Increasing the ratio of eco-friendly material handling equipment to 40% by 2025 (on track to reach 25% by the end of 2023)

CERTIFICATIONS:



WAREHOUSE STORAGE TEMPERATURE RANGE:

+2 to +8°C | Cool Goods

+15 to +25°C | Controlled Room Temperature Goods

CONTACT DETAILS:

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Regional Key Account Management,
Healthcare, APAC
✉ Manish.Gupta@Cevalogistics.com

Steven Lee
Product Development Head
✉ Steven.Lee@Cevalogistics.com

COMPANY DESCRIPTION

Companies in the healthcare sector are confronted with a constantly changing environment.

At DB Schenker, we provide specialised healthcare logistics services, answering to specific needs required for secure and compliant product movement. With our innovative and integrated solutions, we can react flexibly to any changes and requirements of your distribution needs from pharmaceutical and biotech companies, as well as medical device manufacturers. Your high-value, cold chain and controlled products are always securely managed from a single source and stay in expert hands from beginning to end.



KEY FEATURES:

Largest Integrated Airfreight & Logistics Facility in Airport Logistics Park of Singapore

Temperature Mapped, monitored and built with alert systems

TAPA Certified with security cameras

Integrated supply chain logistics management and Control Tower catering to Pharma customer's requirements for time sensitive, high value, temperature sensitive shipments.

PHARMA SERVICE OFFERINGS:

- Airfreight service levels with different temperature ranges – refrigerated, frozen, complete with route and carrier validations
- Extensive Pharma qualified Active and Passive packaging solutions
- Topping up of dry ice / Replacement of gel packs
- Near real-time AirTrack-ing device providing telemetric monitoring such as temperature, humidity, shock etc throughout transportation
- Multi modal cross docking solutions
- Dedicated healthcare personnel
- Network optimisation specialists
- Active containers charging points.
- Cargo Consolidation and shipment preparation.
- Door-to-door trade lane risk assessment using Validaide.
- One-stop shop for all pharma logistics need: Packaging solution, data loggers, custom brokerage, and all logistics needs.
- Sustainable pharma logistics solution to reduce carbon footprint.

Intermodal logistics supply chain within the Free Trade Zone (Air, Ocean, Land Transport and Warehousing). Providing flexibility and cater to different business model.

SchenkerLife+ Global GDP certified network certified by Bureau Veritas.

Halal logistics for API, raw materials for pharmaceutical manufacturing and finished goods.

Pharmaceutical dangerous goods cross-docking

INFRASTRUCTURE CAPABILITIES & EQUIPMENT:

- Temperature controlled room with mapping capabilities
- Dedicated & qualified cold chain handling team (GDP, QEP trained)
- Security solutions (CCTV, 24/7 security coverage with security guards and alarm system and access control to facility)
- End-to-end traceability
- Customised IT solutions

SUSTAINABILITY EFFORTS:

- Schenker Singapore's sustainability framework is to inspire change and create an equal and inclusive community through Clean Logistics; Thriving Communities; and Shared Values.
- DB Schenker RedLion facility in Free Trade Zone is LEED v4 Certified (First in Singapore & Largest Warehouse in SEA to be certified and BCA Green Mark (Platinum Rating)

CERTIFICATIONS:

- SS620: 2016
- ISO13485:2016
- HSA Manufacturer's License



WAREHOUSE STORAGE TEMPERATURE RANGE:

+2 to +8°C | Cool Goods

+15 to +25°C | Controlled Room Temperature Goods

INVOLVEMENT IN GLOBAL PHARMA ASSOCIATIONS:

- Pharma.Aero

CONTACT DETAILS:

Lim Say Kum (Mr.)
General Manager, Vertical Markets Development - Healthcare
Sales & Sales Planning
☎ +65 6549 1234
☎ +65 9687 8815
✉ say-kum.lim@dbschenker.com

COMPANY DESCRIPTION

Our existing and always-expanding life sciences and healthcare network allows you to adapt, create value and succeed in the ever-evolving services industry. Providing high quality products, ensuring patient safety and compliance with new regulations are just some of the challenges facing the life sciences and healthcare sector. At DHL, we meet these challenges head on – collaborating and innovating solutions in partnership with you.



KEY FEATURES:

Regulated Air Cargo Agent Regime member

Strategically located within Airport Free Trade Zone

which is advantageous for cross-dock operations

24/7/365 handling and operations team

Customised solution for all temperature requirements

Import/Export customs brokerage

More than 9,000 tonnes of dedicated life science and healthcare annual handling capacity in Singapore

Alarm page system for temperature deviation

Temperature monitored room monitored with 2 CCTV cameras and electronic In & Out access check

PHARMA SERVICE OFFERINGS:

- Active package handling (LD3 type, Envirotainer/KT400F/CSafe/Qtainer)
- Passive package handling (Pallet Shipper, Thermo blanket)
- Dry ice top-up
- Batteries replacement for Envirotainers
- Plug-in points for Envirotainers charging available
- Supply of thermal blankets and customised packing solutions
- Temperature-controlled transportation
- DHL Air Thermonet/LifeConex: the new standard air freight product for the transportation of temperature-sensitive Life Sciences and Healthcare shipments

PHARMA SERVICE OFFERINGS (CONT'D):

- Certified Life Sciences Stations - trained specialists to handle all pharma shipments, and audited DHL Air Thermonet handling processes
- DHL Thermonet GxP Quality Guidelines, Life Sciences specific Supplier Management Program, and Central Certification and Audit Process
- Life Sciences designed IT platform, a fully integrated cold chain data source for all logistics events and temperature data
- SOP design and implementation with automated SOP change management and version control, including proactive contingency plan design
- Global proactive monitoring and intervention 24/7/365, visibility through up to 17 touch points, and in-transit ambient temperature monitoring using customised Life Science DHL IT platform with fully integrated cold chain data

CERTIFICATIONS:



WAREHOUSE STORAGE TEMPERATURE RANGE:

+15 to +25°C | Controlled Room Temperature Goods

INVOLVEMENT IN GLOBAL PHARMA ASSOCIATIONS:

- Pharma.Aero
- Cool Chain Association

CONTACT DETAILS:

✉ dgfsg.enquiries@dhl.com

COMPANY DESCRIPTION

Built in 2013, the dnata Coolchain - Pharma & Perishable Centre, is designed to handle high value, high yield perishable items within a dedicated, state-of-the-art cargo handling facility. Encompassing the latest cold storage technologies and designs, the Pharma & Perishable Centre offers uncompromised storage solutions and cold chain products to a wide range of temperature-sensitive cargo.

To ensure and prepare for the uncompromised integrity of pharmaceutical and perishables in the air cargo supply chain throughout end-to-end distribution, dnata has invested in the manufacturing of Cool Dollies in Singapore which will complement its suite of facilities at dnata Coolchain - Pharma & Perishable Centre. These dollies, specially designed to serve the ever-growing pharmaceuticals industry, made dnata the first handling company in the local market to offer a temperature-controlled solution for the transportation of temperature-sensitive goods between the dnata Pharma & Perishable Centre and an aircraft.

In addition, dnata's dedicated team of experts offer a range of solutions for handling time-sensitive imports that include priority clearance at dnata Cargo Centre and expedited landside deliveries.



KEY FEATURES:

1,400 sqm temperature-controlled facility

Annual temperature-controlled handling capacity of 75,000 tonnes (with flexibility to scale)

14 modular cold storage areas for loose/pallet cargo with 26 - 42sqm individual room space for customised temperature-controlled storage

-25°C to 25°C cold room conditions

PHARMA SERVICE OFFERINGS:

- 2-hour priority release
- 16 charging stations for Envirotainers and CSafe
- 2 charging stations at truck docks for shipping containers, reefers
- Temperature-controlled break zone and build-up area
- Temperature mapping capabilities
- Dry ice topping
- Stuffing/unstuffing of shipping containers for air-sea shipments
- Direct from shipper services including conditioning of active containers, labelling, loading, sealing and recording of all shipment milestones.
- Delivery within Changi Cargo Complex using cool dollies

Cool Dollies - support an unbroken cool chain for time & temperature-sensitive shipments

Web-based monitoring system for real-time management

23 LD7 container holding positions and 165 EU pallet holding positions for loose cargo

INFRASTRUCTURE CAPABILITIES & EQUIPMENT:

- Dedicated Coolchain staff are trained in accordance with WHO/CEIV Pharma requirements for dry ice refilling & IATA Temperature Control Regulations (TCR) and can handle active containers such as the Envirotainers and C-Safe
- 24/7 temperature monitoring and an alarm system in place to notify any temperature excursion, which allow immediate corrective actions
- Security system which provides 24/7 surveillance with digital recording, access control and onsite security guards

SUSTAINABILITY EFFORTS:

- dnata's Environmental Sustainability Framework sets out 3 priority focus areas that we continuously work towards:
 - o Reduce Emissions - Reduce our carbon intensity by improving efficiency and increasing renewable energy use.
 - o Consume Responsibly - Minimise avoidable resource consumption, reduce waste and promote responsible supply chains.
 - o Protect Wildlife & Habitats - Take action against the illegal wildlife trade.
- In Singapore, the list of sustainability improvements shows how persistent dnata is in making a difference: from upcycling discarded materials such as cargo netting and transfer belts, to recycling plastic sheets used in cargo handling, and from using locally sourced recycled plastic for wrapping Unit Load Devices, to significantly improving the reuse and eventual recycling of wooden pallets.
- By partnering with global industry leaders, the company improves the management of the existing GSE fleet and is gradually replacing old diesel equipment with a more sustainable asset base, including electric GSE. By the end of 2023, dnata will have an entire fleet of electric forklifts.
- dnata installed a 3.5 megawatt-peak rooftop power system comprising over 6,500 individual solar panels which generates more than 4,300 megawatt hours of green power a year, enabling dnata to reduce its electricity-related carbon emissions by 20% annually in Singapore. The company also switched to innovative air conditioning as a service (ACaaS), which positively impacts its carbon footprint, showing a reduction in energy costs by 54% at the cargo warehouse in its first year. We care about the environment and firmly continue on our sustainability journey.

CERTIFICATIONS:



WAREHOUSE STORAGE TEMPERATURE RANGE:

-25 to +2°C | Frozen Goods

+2 to +8°C | Cool Goods

+15 to +25°C | Controlled Room Temperature Goods

Cool Dollies

INVOLVEMENT IN GLOBAL PHARMA ASSOCIATIONS:

- Pharma.Aero
- Member of Cargo IQ

CONTACT DETAILS:

✉ commercial@dnata.sg

COMPANY DESCRIPTION

DSV has almost half a century of transport expertise.

Since our establishment in 1976, we have been through a series of mergers to maintain a key position in the global transport industry.

As a result, we have grown stronger and larger.

At DSV today, we provide and manage supply chain solutions for thousands of companies every day – from the small family run business to the large global corporation.

Our reach is global, yet our presence is local and close to our customers.

We have 56,000 employees in more than 80 countries work passionately to deliver great customer experiences and high-quality services.



KEY FEATURES:

Temperature-controlled Pharmaceutical & Healthcare Storage Facility within Airport Free Trade Zone, equipped with temperature monitoring, temperature deviation alert systems

DSV PharmaQMS (GDP WHO Guidelines) Global Certification and Audit Program embedded into workflows, SOPs and policies and in compliance by employees handling Pharmaceutical & Healthcare clients

Risk Management through online lane risk assessment & quality risk control

Global Strategic Core Partners: partnership and programs in place with airlines, shipping lines, active and passive packaging solution providers

DSV Cool Air Product for charter network flights

24/7 Temperature monitoring pharmaceutical & healthcare control tower. Smartview online platform to monitor various parameters of facilities and / or shipments on the move.

Dedicated Pharmaceutical & Healthcare Specialists Team

INFRASTRUCTURE CAPABILITIES & EQUIPMENT:

- Global PharmaQMS trained and certified staff
- Industry - compliant healthcare facilities and transport networks
- Tailor-made supply chain solutions across our integrated network for handling of full range of pharmaceutical products

SUSTAINABILITY EFFORTS:

- DSV have and committed to reaching net-zero emissions by 2050, both in our own operations (scope 1 and 2) and across the value chain (scope 3). Our targets and accounting principles are developed in line with the Science Based Targets initiative (SBTi) framework, to ensure that our decarbonisation strategy is based on the latest climate science and is in line with the goals of the Paris Agreement.
- As part of our sustainability strategy, we have set a near-term to reduce emissions under our direct control (scope 1 and 2) by 50% and indirect emissions (scope 3) by 30% in 2030 against our 2019 baseline. Our near-term targets are validated by SBTi.
- To deliver on our ambitions, we have developed a decarbonisation roadmap, which will guide our actions to achieve our carbon reductions targets in the coming years. Our roadmap outlines the main levers which we will work with to reach our targets. These include increasing energy efficiency, phasing out fossil fuels across all transportation modes, producing renewable energy and testing and implementing new technologies. We will work on deliver our roadmap in close partnership with costumers, sub-contractors and other stakeholders to enable decarbonisation across our supply chain.

WAREHOUSE STORAGE TEMPERATURE RANGE:

-25 to +2°C | Frozen Goods

+2 to +8°C | Cool Goods

+15 to +25°C | Controlled Room Temperature Goods

INVOLVEMENT IN GLOBAL PHARMA ASSOCIATIONS:

- Pharma.Aero

CERTIFICATIONS:



CONTACT DETAILS:

✉ pharma.healthcare@sg.dsv.com

Expeditors

COMPANY DESCRIPTION

Expeditors is a global logistics company founded in 1979, with global headquarters in Seattle, Washington. As a Fortune 500 company, we employ over 18,000 trained professionals in a worldwide network of over 320 locations across six continents.

At Expeditors, we exercise Good Distribution Practices (GDP) for pharmaceuticals with customized and compliant plans that are tightly controlled throughout the supply chain.

Expeditors Singapore health-care facility offers unique benefits to shippers and consignees for handling their regulated products. Expeditors offers 24/7 handling capabilities to ensure swift turnaround of products and seamless passages to the aircraft. We set a globally consistent set criteria for each movement and monitor the quality of the operational services until each shipment reaches the end of the supply chain.



KEY FEATURES:

22 covered loading bays equipped with dock leveller

Gated and Secured Facility with 24/7 guards, CCTV security monitoring, motion detectors and alarm systems

Backup Power Supply with weatherproof outdoor generator with 8-hour standby fuel tank

Redundancy system with backup condenser and evaporating fan coil

PHARMA SERVICE OFFERINGS:

- Intermodal freight consolidation and forwarding
- In-house brokerage services
- Secured and monitored temperature control storage facilities
- Ambient and temperature controlled trucking services
- Customized end to end risk management solutions with proprietary route design solutions
- Pharma lane studies and monitoring (Cargo Signal Vitals)
- Full supply chain visibility (Cargo Signal Solutions)
- Gel pack/dry ice and battery replenishment
- Active and passive packaging solutions

Temperature and Humidity mapped and monitored with deviation alert system

Strategically located within Airport Free Trade Zone within Free Trade Zone for quick transfer

Fully GDP and QEP trained staff and compliance managers

INFRASTRUCTURE CAPABILITIES & EQUIPMENT:

- 1,000 sqft of Cool Storage (+2oC to +8oC) and 5,500 sqft of Controlled Room Temperature Storage (+15oC to +25oC) dedicated for healthcare
- Transportation and Warehouse Management Systems
- Route Design Healthcare Tool
- Cargo Signal real time location and condition monitoring services
- Continuous Environmental Monitoring System
- Electrical power plug-in for active packaging
- Multiple customer interface program for inventory, freight and event tracking and reporting capabilities including exp.o® Visibility, exp.o® Mobile, EDI System Integration, Automated Email Notification, Exception Reporting and Shipment Tracking API
- Wifi enabled Transportation Warehouse Management System (TWMS) for Air warehouse operations

SUSTAINABILITY EFFORTS:

Expeditors is committed to supporting environmental objectives in the following areas:

- Climate Change
 - o Cutting Carbon Emissions
 - o Reducing Energy Use
 - o Tracking Miles
 - o Eliminating Redundant Miles
 - o Partnership with carries through programs such the US EPA SmartWay and Supplier Environmental Scorecards
- Reducing Waste & Safeguarding Natural Resources
 - o Packaging
 - o Paperless Operations (electronic document imaging)
- Fair Partner
 - o Compliance with laws
 - o Eliminating conflicts of interest
 - o Equal employment opportunity
 - o Optimizing workplace environment
 - o Confidentiality

CERTIFICATIONS:



Our Pharma@Changi Members:
FREIGHT FORWARDERS

WAREHOUSE STORAGE TEMPERATURE RANGE:

-15 to -25°C and below
| Frozen Goods (Freight Transportation only)

+2 to +8°C | Cool Goods

+15 to +25°C | Controlled Room Temperature Goods

INVOLVEMENT IN GLOBAL PHARMA ASSOCIATIONS:

- Pharma.Aero

CONTACT DETAILS:

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COMPANY DESCRIPTION

GEODIS is a leading worldwide provider of customized transportation, warehousing, global logistics, and supply chain solutions. As a growth partner to its clients, GEODIS specializes in five lines of business: Supply Chain Optimization, Global Freight Forwarding, Global Contract Logistics, Distribution & Express, and European Road Network. A one-stop shop for healthcare logistics, we specialize in inventory and cold chain management. We also help you meet sustainability goals via supply chain optimization.

Strengthen your supply chain visibility and resilience with GEODIS' compliant logistics solutions. As a reliable medical logistics partner, we excel in meeting strict timelines and regulations across the entire healthcare supply chain. Benefit from our global experience in pharmaceutical packaging, cold chain, and proper licensing.

The healthcare industry needs agile risk management and a sharp focus on traceability – across the supply chain. As drugs are sensitive to temperature changes, they require specialized handling, e.g. usage of climate-controlled vehicles. Leveraging our 24/7 dedicated service, we enhance your warehousing infrastructure, ensuring the utmost efficiency and safety for your medicinal products.

Redefine your pharmaceutical logistics management with GEODIS.



KEY FEATURES:

Strategically located within the Airport Free Trade Zone enabling quick transfers

Full inventory visibility across the supply chain with a Control Tower. Management and monitoring of goods across all transport modes, whether SKU or shipment-based.

Dedicated and Secure Operations Including Cold Chain to transport and store goods at temperature-controlled healthcare sites and transport networks that are fully compliant with quality standards and regulations.

PHARMA SERVICE OFFERINGS:

- Airfreight services for all temperature ranges.
- Solutions and services for both passive and active packaging handling.
- A GDP-certified temperature-controlled network at strategic Pharma and Healthcare locations around the globe, ensures goods handling at industry standards.
- Dedicated Healthcare specialists.
- Redressing of gel packs for passive packaging.
- Electrical plug-ins for active containers.
- Customisation of multimodal transport solutions
- GEODIS is a pioneer in multimodal transportation.

Well-trained and GMP/GDP-certified experts meet the pharma industry's need for high-quality standards, across supply chains.

Turnkey Freight Forwarding and Direct Delivery that is transparent and tailored door-to-door delivery of products to destinations ranging from pharmacies and hospitals to retail outlets.

Value-Added Logistics through offering advisory for logistics flow optimization and aid in kitting, serialisation, and repackaging

- We design smart solutions, combining varied transport modes, e.g., air, road and sea, to meet your unique delivery and sustainability targets.
- Best-in-class customs management and international trade compliance.
- Regional Distribution Centre (RDC) contract logistics and distribution capabilities.
- Priority on next flight out services for cold chain shipments.
- End-to-end visibility through in-house track and trace systems, via IRIS (Intelligent Real-Time Information System)
- Temperature tracking with real-time GPS solutions.

INFRASTRUCTURE CAPABILITIES & EQUIPMENT:

- Customized supply chain solutions across our integrated network to handle a full range of pharmaceutical products.
- State-of-the-art freight management with IRIS (Intelligent Real-time Information System) with modern AI Technology to deliver reliable and accurate real-time information.
- 24/7 CCTV security monitoring
- Active and passive temperature solutions

SUSTAINABILITY EFFORTS:

Expeditors is committed to supporting environmental objectives in the following areas:

- Climate Change
 - Cutting Carbon Emissions
 - Reducing Energy Use
 - Tracking Miles
 - Eliminating Redundant Miles
 - Partnership with carries through programs such the US EPA SmartWay and Supplier Environmental Scorecards
- Reducing Waste & Safeguarding Natural Resources
 - Packaging
 - Paperless Operations (electronic document imaging)
- Fair Partner
 - Compliance with laws
 - Eliminating conflicts of interest
 - Equal employment opportunity
 - Optimizing workplace environment
 - Confidentiality

CERTIFICATIONS:



WAREHOUSE STORAGE TEMPERATURE RANGE:

+2 to +8°C | Cool Goods

+15 to +25°C | Controlled Room Temperature Goods

CONTACT DETAILS:

GEODIS Singapore Sales Support

+65 6592 8700

salesupport.ff.apac@geodis.com

COMPANY DESCRIPTION

With Global Airfreight's wide network in Asia, Europe and Americas, we give you the peace of mind that your sensitive products are delivered at the right time and right temperature. We craft solutions to ensure the quality and integrity of your valuable products along the cold chain.

We provide life science & clinical trial logistics, Next Flight Out (NFO) express service, as well as Active and Passive packaging solutions to fulfil cold chain requirements.



KEY FEATURES:

Door to door services
managed by 24/7 Control Tower

Pharma, life science and clinical trial logistics

Real-time temperature monitoring system

One-stop cold chain management

Next Flight Out (NFO)
express services

Security alarm and CCTV monitoring

Strategically located within Airport Free Trade Zone
for quick transfer

PHARMA SERVICE OFFERINGS:

- Wide range of passive and active packaging solutions
- Temperature controlled storage and transport
- Ambient and temperature controlled trucking services for temperature range between -25°C to +25°C

INFRASTRUCTURE CAPABILITIES & EQUIPMENT:

- 15,000 sqft Cold Chain storage facility (3 individual cold room for + 2 to + 8°C, + 15 to + 25°C and -15 to - 25°C) within Airport Free Trade Zone complied with GDP standard for API, Therapeutic Products (GDP), Medical Devices (ISO13485) storage and distribution
- Ready availability of Dry Ice and Liquid Nitrogen (LN2) to cater to deep frozen and cryogenic transport requirements
- Owned temperature-mapped temperature control vehicles
- LIVE GPS tracking and temperature monitoring on the road

SUSTAINABILITY EFFORTS:

- Global Airfreight is certified for ISO14001 Environmental Management System as part of the initiative in improving the environmental performance through more efficient use of resources and reduction of waste.

CERTIFICATIONS:



WAREHOUSE STORAGE TEMPERATURE RANGE:

-15 to +25°C | Deep Frozen

+2 to +8°C | Cool Goods

+15 to +25°C | Controlled Room Temperature Goods

INVOLVEMENT IN GLOBAL PHARMA ASSOCIATIONS:

- Pharma Freight Network

CONTACT DETAILS:

✉ control-hcls@globalair.com.sg

COMPANY DESCRIPTION

JAS Forwarding Singapore which is established in Singapore in 1982 and is a subsidiary of JAS Worldwide Inc. JAS worldwide has more than 7000 employees sitting in 236 offices worldwide with 35 GDP certified branches. The global strategy is focused on development of people and technology to foster accelerated growth. Strategic acquisitions to add complimentary services offerings to our portfolio and continued market / vertical investments which includes having our own Pharma & Healthcare facilities around the world.

With more than 70 headcounts and increasing in Singapore, the team spread across the airfreight office at Changi Cargo Agent Building and Pharma graded warehouse at Tanjong Penjuru while corporate office sits in at Valley point. JAS Singapore is able to offer full air / ocean / road, logistics & distribution services.

With a comprehensive ecosystem comprising of logistics, platforms, temperature-controlled packaging and data loggers, JAS created the infrastructure to store and transport valuable pharma cargos. JAS has another 2 focus areas namely BMS systems where JAS achieve all the required certifications and being a people's business, heavy investments are put into the training of the staff's competency with 3 different certifications.

Embarking on preferred carrier programs for both air and ocean, JAS aims to work with carriers who are either CEIV pharma certified or signed a quality agreement with JAS. JAS had also qualified other essential partners including truckers, active / passive packaging suppliers, data loggers who contributes to the success of the supply chain.



KEY FEATURES:

Air / Ocean / Ground freight services

Customs clearance / compliance services
Contract Logistics

Focused supply chain assessments

Customer educational forums

Vertical industry expertise

Dedicated **JAS projects** division

Pharma graded warehouse with MES & Zero-GST scheme

Dedicated inhouse pharmacist as part of compliance team

PHARMA SERVICE OFFERINGS:

- Manage own controlled freighter network to guarantee uplift.
- Ability to move specialized cargo and adapt to specific industry needs for oversize, DG and temperature-controlled goods.
- Tailor made capacity and customer solutions.
- Major Exporter Scheme and Zero GST pharma warehouse with 3 temperature storage area.
- Differential pressure on demand room for better controlled environment that control / monitor parameters such as dust, humidity and temperature.

INFRASTRUCTURE CAPABILITIES & EQUIPMENT:

- Validaide (Lane risk assessment)
- SmartHub (analytics, real time traceability & visibility, CAPA management)
- Project 44 (Real time supply chain visibility)
- SmartCAE (Lane risk assessment)
- CargoSense (Simplify process for supply chain operations)

SUSTAINABILITY EFFORTS:

- JAS Worldwide is committed to doing its part to promote environmental sustainability throughout the organization. We believe that working together we build a greener tomorrow by effectively reducing our environmental impact and improving the way we do business. As part of its actions, JAS Worldwide has committed to set a science-based target through the Science Based Targets initiative (SBTi) towards Net Zero 2050.
- JAS had also committed to UN SDGs and achieved an Ecovadis 2022 Silver award for Sustainability rating

CERTIFICATIONS:



WAREHOUSE STORAGE TEMPERATURE RANGE:

Room Temperature Goods

-20 to -170°C | Frozen Goods

+2 to +8°C | Cool Goods

+15 to +25°C | Controlled Room Temperature Goods

INVOLVEMENT IN GLOBAL PHARMA ASSOCIATIONS:

- Pharma.Aero
- APACMed
- The International Pharmaceutical Supply Chain Consortium

CONTACT DETAILS:

✉ sg-sales@jas.com

COMPANY DESCRIPTION

With over 80,000 employees at almost 1,300 sites in close to 100 countries, the Kuehne+Nagel Group is one of the world's leading logistics providers. Headquartered in Switzerland, Kuehne+Nagel is listed in the Swiss blue-chip stock market index, the SMI. The Group is the global number one in air and sea logistics and has strong market positions in road and contract logistics.

Kuehne+Nagel is the logistics partner of choice for 400,000 customers worldwide. Using its global network, logistics expertise and data-based insights, the Group provides end-to-end supply chain solutions for global companies and industries. As a member of the Science Based Target Initiative (SBTi), Kuehne+Nagel is committed to sustainable logistics by reducing its own environmental footprint and by supporting its customers with low-carbon logistics solutions.



KEY FEATURES:

Your global logistics partner dedicated to quality and service

Full control and rapid intervention

Flexible end-to-end solutions

Pioneering risk management

Data-driven support and real-time tracking

PHARMA SERVICE OFFERINGS:

- Simplifying the complexity of the industry through advice by our teams of GxP-certified (Good Practice in pharma) experts and creating a tailored solution for your business needs
- 24/7/365 proactive monitoring of the temperature, humidity, and location of your critical shipments to ensure integrity and compliance are maintained
- One-roof operation for postponement, serialisation & redressing activities
- IATA CEIV Pharma certified teams across 94 locations globally
- Mitigate risk through our risk management tool which helps select the most suitable carriers and routes for your individual shipments

CERTIFICATIONS:



ISO 13485
BUREAU VERITAS
Certification



INFRASTRUCTURE CAPABILITIES & EQUIPMENT:

Located at Pioneer Crescent, our Singapore Logistics Hub provides 46,000sqm of warehousing space. Aside from the standard freight and warehousing service offerings, the facility serves as a regional centre of excellence for customers from the high-tech, industrial, pharmaceutical and healthcare industries, supporting them with supply chain optimisation and value-chain transformation solutions.

More than 40 per cent of our logistics hub has been furnished with advanced chilled storage, redressing and postponement facilities:

- Temperate pallet storage chambers ranging across 2°C to 8°C, 15°C to 25°C, -20°C and fridges for -40°C and -80°C
- Availability of Dry Ice and Liquid Nitrogen (LN2) to cater to deep frozen and cryogenic transport requirements
- Vault room for controlled-drug and/or high value cargo storage
- Multi-customer GMP-certified facilities for postponement, serialisation & redressing activities
- Sealed loading bays installed with air-curtains and individual power-charger temperature-controlled models such as reefers and/or active shippers
- Stringent security system round the clock
- Advanced fire protection system and sprinklers system with more than 1,000 smoke detectors
- Production Logistics support through provision of milk-run services and trained blue collar / white collar personnel

SUSTAINABILITY EFFORTS:

Our key objectives to reduce CO2 emissions in transport:

- Maintain effective carbon management throughout all operations
- Provide environmentally friendly solutions and offerings to our customers
- Procure logistic services based on environmental criteria

Our sustainability goals:

We are addressing CO2 reduction in all of our transport and logistics services worldwide. We have two main targets to reach our goal:

- Be fully carbon neutral in our direct sphere of influence as of 2020 (Scopes 1 and 2 of GHG Protocol)
- Reduce CO2 emissions by 33% for our, our suppliers' and customers' footprint by end 2030 (including Scope 3 of GHG Protocol)

WAREHOUSE STORAGE TEMPERATURE RANGE:

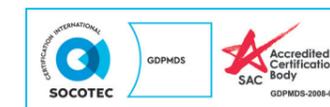
+2 to +8°C | Cool Goods

+15 to +25°C | Controlled Room Temperature Goods

CONTACT DETAILS:

Arvinth Anamalai
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Singapore & Malaysia
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Jonathan Tan
Contract Logistics, Head of Business
Development & Solutions,
Singapore & Malaysia
✉ jonathan.tani@kuehne-nagel.com



COMPANY DESCRIPTION

Nippon Express is one of the world's largest logistics companies with over 72,350 professionals spread across 730 locations. Globally, we provide a one-stop solution for diverse industries integrating air, ocean, road, rail, and contract logistics.

With more than 10 years of experience serving the major customers in the pharmaceutical & healthcare industry, we understand that every customer has its own logistic needs, and every product has its own characteristics. Listening to the customer's voice is our first and most important step. We coordinate the logistic plan based on the customer needs with various solutions (Storage/Packaging/Trucking/Air & Ocean transport) followed under IATA CEIV and GDP guidelines. We coordinate optimal reliable transport methods by product, including drugs or devices undergoing clinical trials that require a high level of security and certain pharmaceuticals that require temperature control or vibration countermeasures. We monitor and provide real-time status of your shipment throughout the whole Cool-Chain so that our customer can enjoy the visible process.



KEY FEATURES:

Network Of GDP, CEIV & QEP Certified Facilities across 36+ locations around the world

Nippon Express QMS (GDP) Compliance Program is integrated into processes and policies for employees handling pharmaceutical and healthcare clients.

PHARMA SERVICE OFFERINGS:

- Intermodal end-to-end freight forwarding transportation with various temperature ranges.
- Secured temperature-controlled storage facilities.
- Ambient and temperature-controlled trucking services.
- Able to customize and provide suitable and reliable for both active and passive pharmaceutical packaging.
- Gel packs, dry ice, and thermal blankets for temperature maintenance.
- Inbound and outbound regulatory clearance and deconsolidation.
- GPS trucking system for visibility and route planning.
- End-to-end cargo tracking capabilities from shipment confirmation to final delivery receipt
- 24 hours a day, 7 days a week remote monitoring of temperature, shock, tilt, and location

Experienced Pharmaceutical Specialist Team trained in GDP & QEP standards globally.

Round The Clock Monitoring of cargo for temperature, shock, tilt, and location

INFRASTRUCTURE CAPABILITIES & EQUIPMENT:

- Strategically located within airport free trade zone
- Fire protection systems and sprinkler systems
- TAPA certified facility with stringent security system round the clock.

SUSTAINABILITY EFFORTS:

At Nippon Express Group, we are not just transporting cargo; we are shaping a sustainable future. As a company, we have been actively reducing our carbon emissions. Our sustainability commitment is recognized globally as evidenced by the Ecovadis sustainability award.

Our achievements:

- Decreased carbon dioxide emission by 11.39% between 2017 and 2022.
- Reduced a total of 745,460+ tons of carbon dioxide and carbon dioxide equivalent emission.
- Reduced energy consumption by 14.23% since 2017.
- 85% of facilities are powered by LED lightbulbs.

CERTIFICATIONS:



WAREHOUSE STORAGE TEMPERATURE RANGE:

-25 to 2°C | Frozen Goods

+2 to +8°C | Cool Goods

+15 to +25°C | Controlled Room Temperature Goods

INVOLVEMENT IN GLOBAL PHARMA ASSOCIATIONS:

- Pharma.Aero

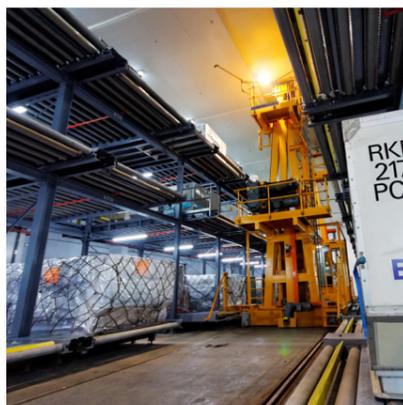
CONTACT DETAILS:

+65 6715 3248
nesg-csd-corapsales@nipponexpress.com

COMPANY DESCRIPTION

Breaking new ground for handling perishables, SATS Coolport is Singapore's first and biggest on-airport, purpose-built facility for a wide range of temperature-controlled cargo, including pharmaceuticals. Located within the Free Trade Zone at Changi Airport, SATS Coolport is the sophisticated hub in the Asia Pacific region delivering exceptional handling standards to guarantee a complete, secure cold chain for land, sea, and airfreight.

Combining years of proven expertise with the latest technology, SATS Coolport redefines the way temperature-controlled cargo are handled at Changi Airport. With a well-trained team, quality management system and state-of-the-art facility that adheres to Good Distribution Practice guidelines, SATS Coolport is certified by IATA as the world's first CEIV Pharma certified company in 2014. Together with our established air cargo handling and logistics capabilities, we provide comprehensive and integrated solutions that meet your most stringent requirements



KEY FEATURES:

SATS Coolport is **Asia's first on-airport perishable handling centre**. It is dedicated to the cold chain handling of time and temperature sensitive cargo for import, export, and transshipment.

It is **the first facility in the world to be awarded the IATA CEIV Pharma Certification in 2014**.

Strategically located within Airport Free Trade Zone, within Changi International Airport, it has direct airside access that allows cargo shipment to be constantly moved within a secure cold chain, from the facility to the aircraft and vice versa.

PHARMA SERVICE OFFERINGS:

- Temperature mapping capabilities
- Regional distribution services
- Guaranteed year-round capability of peak-handling and storage, leveraging on reliable scalability
- Possesses in-house dry-ice production capability, up to 4.5 tonnes daily
- Replenishment of dry ice and re-icing services including regular temperature monitoring of shipment
- Full suite of inventory management using proprietary warehouse management system at Coolport
- Multi-modal transportation, where SATS Coolport offers air-sea combined transportation services for a cost-effective and time-sensitive solution for customers. Includes direct liaison with PSA for enhanced track-and-trace capabilities within the 2 different free-trade zones

It has an **annual handling capacity of over 300,000** tonnes with additional 6000 sqm of space available for future expansion.

Round-the-clock operations manned by 24/7 team with a robust quality management system that meets IATA CEIV and Good Distribution Practice standards and guidelines for quality assurance.

INFRASTRUCTURE CAPABILITIES & EQUIPMENT:

- SATS Coolport is a purpose-built and fully certified facility for temperature-sensitive products
- Spanning 8,000 square metres, with more than 2,000 square metres of column-free warehouse space and 18 coldrooms from -20 °C to +25 °C
- Multi-level unit load device storage with up to 250 airline pallet positions
- More than 40 on-site charging points for active containers as well as sea reefers
- Includes on-tarmac cool dolly with these key features:
 - Internal temperature range of -20 °C to 20 °C
 - Fast charging to -20 °C within 2 hours
 - Able to last more than 10 hours of continuous operations on a full charge
- 24-hour surveillance with digital recording
- Electric vehicles used within facility
- In November 2019, SATS is certified by IATA as the world's first Smart Facility Operational Capacity (SFOC) validated cargo handling facility

SUSTAINABILITY EFFORTS:

- At SATS, we are conscious of the influence our business has on the environment and the communities we serve. Therefore, we have embedded sustainability in our strategy to strengthen our long-term value creation and make a positive impact today and in the future.
- Progressing with our strategy in operationalizing sustainability across the value chain, we have been strengthening our core capabilities by aligning SATS with international best practices such as joining the IATA Environmental Assessment Programme to become Asia Pacific's first ground handler to do so. Aligning ourselves with international best practices in environmental management allows SATS to plug into global platforms to introduce world-class standards to the partners we support.

CERTIFICATIONS:



WAREHOUSE STORAGE TEMPERATURE RANGE:

-20 to +0°C | Frozen Goods

+2 to -8°C | Cool Goods

+15 to +25°C | Controlled Room Temperature Goods

INVOLVEMENT IN GLOBAL PHARMA ASSOCIATIONS:

- Cold Chain Association (CCA)

CONTACT DETAILS:

+65 6541 3956

info@coolport.com.sg

COMPANY DESCRIPTION

Founded and headquartered in Singapore since 2009 with presence in 12 countries across Asia Pacific region.

SFS focuses on door-to-door transportation and customs declaration of temperature sensitive pharmaceutical shipments.



KEY FEATURES:

White Gloves Services for Pharma Cold Chain

One-Way Rental of Thermal Packaging within APAC

Provision of Pre-Conditioned Thermal Packaging & Data Logger

12 Offices Across Asia Pacific each with Pre-Conditioning Capabilities

PHARMA SERVICE OFFERINGS:

- Capabilities to replenish dry ice when required.
- Re-packing of thermal packaging boxes to prolong temperature duration
- SFS focuses on door-to-door transportation and customs declaration of temperature sensitive pharmaceutical shipments.

INFRASTRUCTURE CAPABILITIES & EQUIPMENT:

- Control Tower to track pharma shipments live based on milestones
- Handling a wide range of products including: Clinical Trials, Central Lab Logistics, Comparator Drugs, Biological Substances CAT A & B, Reagents, Vaccines, Direct to Patient, Cell & Gene Therapy, APIs, Cryogenics, Finish Drugs Prescription, Live Laboratory Animals, and Medical Devices

SUSTAINABILITY EFFORTS:

- Besides deploying electric vehicles our cold chain vehicles are insulated with vacuum panels and aerogel that allows cooling of the cabin much faster as well as maintaining the cabin temperature using less energy compared to traditional insulation material

CERTIFICATIONS:



RCAR
Regulated Air Cargo Agent Regime

WAREHOUSE STORAGE TEMPERATURE RANGE:

- 150°C | Cryogenics
- 80°C | Dry Ice
- 50°C | Frozen Goods
- 32°C | Frozen Goods
- 15 to -25°C | Frozen Goods
- +2 to +8°C | Cool Goods
- +15 to +25°C | Controlled Room Temperature Goods

INVOLVEMENT IN GLOBAL PHARMA ASSOCIATIONS:

- WCA Pharma
- Pharma Logistics Network

CONTACT DETAILS:

✉ singapore@sfspharma.com

COMPANY DESCRIPTION

THRUCOOL, a dedicated cold chain service by Singapore Airlines, is the perfect choice for all your pharmaceutical-related shipment needs. As the first airline in Asia-Pacific to achieve IATA CEIV Pharma Certification, you can be assured that your time- and temperature-sensitive shipments are handled in accordance with industry standards and regulations. We employ an extensive range of features and service checks along the journey to ensure your shipment always stays within the stipulated temperature range from the moment it is lodged in, until it is ready for collection.



KEY FEATURES:

With more than **1,300 flights** a week from Changi Airport, our network reaches beyond **100 destinations** across **5 continents**, operated by a modern fleet of over **200 aircraft**.

First in Asia-Pacific to receive **IATA CEIV Pharma certification** in 2017, we continue to uphold integrity in our cold chain service and obtained recertification in 2020 and in 2023.

Frequent station audits are conducted to ensure the highest pharmaceutical handling standards are upheld.

THRUCOOL, a dedicated cold chain service to safeguard the integrity of pharmaceutical and healthcare shipments during air transportation

Expansion plans for the **THRUCOOL Quality Corridor Network** is ongoing, and with THRUCOOL, we cater to different temperature requirements with dedicated cold chain facilities, which come equipped with customizable temperature settings.

Thermal blankets offered at quality corridor network stations

Specialized handling with priority uplift

Quick ramp transfer allowing temperature-sensitive cargo to tow-in first from aircraft to cold-room and tow-out last from cold-room to aircraft

24/7 online monitoring

PHARMA SERVICE OFFERINGS:

- Availability of dry ice top up
- Recording of battery and temperature readings for temperature-controlled containers available on SIA Cargo Tracking webpage
- Airline lease of active, passive or hybrid containers offered through partnership with cold-chain containers providers
- Qualified Envirotainer Provider Training and Quality Program (QEP) accreditation for the handling and management of Envirotainer containers in accordance to industry standards
- Comprehensive staff training in pharmaceutical cool-chain handling in accordance to IATA Temperature-Controlled Regulations and CEIV Pharma requirements
- Wide range of approved temperature loggers for use on board aircraft
- In-house monitoring of pharmaceutical shipments using real-time digital control tower
- Shipments transiting in SIN hub will be kept in secured warehouse facility with 24 hours surveillance and strict access control measures
- Cold room facilities catering to different temperature ranges from < -18°C to +25°C
- Availability of availability of cool dollies for tarmac transfers at selected stations
- Charging facilities for active containers

SUSTAINABILITY EFFORTS:

SIA sustainability goals are focused around 3 pillars, namely achieving net zero carbon emissions by 2050, reducing waste across our operations, and making a positive impact on society. The pathways adopted to help SIA achieve these goals include (1) continued investments in new generation aircraft to maintain a young and modern fleet, (2) achieving higher operational efficiencies, (3) adopting low-carbon technologies such as Sustainable Aviation Fuels, and (4) sourcing for high quality carbon offset.

SIA also maintains an Environmental Management System (EMS), which is certified to ISO 14001:2015, to ensure that its operational activities do not significantly impact the environment adversely. The EMS covers the provision and management of aviation and engineering support services by SIA's Engineering Division and Flight Operations Division in Singapore and guides its efforts to comply with local and international environmental regulations.

CERTIFICATIONS:



TRANSPORT TEMPERATURE HANDLING CAPABILITIES:

-18°C and below | Frozen Goods

+ 2 to + 8°C | Cool Goods

+ 15 to + 25°C | Controlled Room Temperature Goods

INVOLVEMENT IN GLOBAL PHARMA ASSOCIATIONS:

Pharma.Aero

Freya Foo
Key Accounts Manager
✉ Freya_foo@singaporeair.com.sg

COMPANY DESCRIPTION

Healthcare is changing faster than ever with medicines and therapies being personalized, care moving to the home, and the once thought to be impossible becoming a reality.

At UPS Healthcare, we have taken our best and made it better. As a leading healthcare logistics company, we've invested in the latest technology and expanded our global footprint, allowing us to be more responsive and agile than ever, ensuring every patient gets the critical support they need, when they need it, where they need it.

We are "Quality Focused, Patient Driven."

UPS Healthcare delivers unparalleled healthcare logistics expertise to our customers around the world. UPS Healthcare has 17+ million square feet (1.6 million square meters) of cGMP and GDP-compliant healthcare distribution space globally. Our services include inventory management, cold chain packaging and shipping, storage and fulfillment of medical devices, and lab and clinical trial logistics. Our global infrastructure, UPS® Premier visibility service, track and trace technology, and global quality system are well-suited to meet today's complex logistics demands for the healthcare industry.



KEY FEATURES:

Regional healthcare logistics and distribution centre in Singapore

Dedicated **team of quality assurance personnel** globally

Healthcare freight forwarding, small package, logistics and distribution

End-to-end clinical and commercial healthcare logistics capabilities

Temperature-controlled storage, cooler, and freezer capabilities

Command center and dedicated healthcare customer service provider

Global packaging network

Global quality management system that is compliant with international regulations and standards

Reusable and Disposable Cold chain packaging

GDP-certified storage spaces

PHARMA SERVICE OFFERINGS:

- UPS® Premier package priority handling, 24/7 monitoring, and advanced recovery
- UPS small package, final mile delivery
- UPS air, rail, and ocean freight
- Cold chain solutions (cold chain packaging, cold storage, cold chain active transportation, and dry ice replenishment)
- Warehouse facility value-added services (re-packing, labeling, crating and kitting, sorting, and spare parts logistics)
- Pick/Pack/Ship
- Reverse logistics
- CEIV-certified freight forwarding stations
- IATA-certified and trained healthcare professionals
- Local and global customs brokerage expertise

INFRASTRUCTURE CAPABILITIES & EQUIPMENT:

- 125+ HLD facilities around the globe
- Located within the airport free trade zone and well connected to UPS's regional and global air network for seamless transfer
- International command center for UPS® Premier
- Global control towers to provide improved visibility and proactive intervention if required

SUSTAINABILITY EFFORTS:

At UPS Healthcare, we help our customers reach their sustainability goals through our various solutions and services, and partnerships with humanitarian organizations to deliver healthcare to areas in need:

- Freight Forwarding: As the pharma industry becomes more reliant on freight to bring Active Pharmaceutical Ingredients (APIs) and other key manufacturing ingredients to manufacturing sites, we're focusing on delivering sustainable freight transport that is safe, efficient, reliable and resilient (economic), and fit to reduce greenhouse gas emissions and pollution.
- Warehouses: Our logistics and distribution warehousing facilities feature the latest sustainable facility elements such as solar power, reusable water systems, and energy-efficient facility controls.
- Packaging solutions: We offer our customers sustainable cold chain packaging solutions with reusable and recyclable options to reduce packaging waste.
- Transportation - Our fleet of over 13,000 alternative fuel and advanced technology vehicles uses renewable natural gas to help minimize your carbon footprint. Taking up less shipping space means fewer vehicles are needed to transport the products – which translates into less carbon emissions at the distribution stage of the supply chain.
- Waste management partners – We work with industry-leading partners to ensure not only the safe and secure disposal of waste, but also reduce waste, increase efficiency, save energy, and decrease costs.

CERTIFICATIONS:



WAREHOUSE STORAGE TEMPERATURE RANGE:

-60°C and below | Deep Frozen or Cryogenic Goods

-25 to -15°C | Frozen Goods

+2 to +8°C | Cool Goods

+15 to +25°C | Controlled Room Temperature Goods

INVOLVEMENT IN GLOBAL PHARMA ASSOCIATIONS:

Biotechnology Innovation Organization (BIO)

CONTACT DETAILS:

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International Account Manager - Healthcare

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**For more information, please visit
www.changiairport.com/cargo**

Changi Airport Group (Singapore) Pte. Ltd.
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