

# **Chemical Supply Chain Security**

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# Key Program Elements

- Regional threat assessments
- Corporate, business & site vulnerability assessments & risk reviews
- Risk-based global supply chain security plan, with mode-specific actions tied to threat level
- Global transportation security standards:
  - Cargo security seals
  - TIH shipments
  - Incident reporting

## Key Program Elements (con'd)

- Security assessments of suppliers & logistics service providers
- Information sharing networks
- Screening of customers
- Service event management & business continuity planning
- Controls on security-sensitive sales (products, countries & end-use markets)
- Compliance audits & reviews
- Collaboration on industry-leading initiatives for improved security

# Supply Chain Security Threats & Real World Experiences

- Cargo theft:
  - Organized crime
  - Opportunistic
- Chemical diversion:
  - Illegal drugs
  - Weapons
- Counterfeiting
- Smuggling
- Social and political unrest
- Maritime piracy
- Terrorism

# Improving Asset Visibility

- Rail tank cars
- Tank trucks
- Intermodal containers
- Cylinders
- Small packages (drums, bags, bottles, etc.)

# Ensuring Shipment Integrity

- Product labels
- Electronic seals
- Cargo condition sensors

**Thank you !**