Ceranum – Priority Critical Supplies List (Illustrative, 2025)

This annex outlines the initial set of critical supplies identified as essential for Ceranum’s economic security and societal wellbeing. Each entry indicates the product’s primary use, Ceranum’s current top import sources, global market concentration, and key risk drivers.

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| Sector | Product / Input | HS6 Code | Primary Use / Application | Top Sources (Ceranum Imports) | Import HHI (0–10,000) | World’s Largest Exporter (2024) / Key Risk Drivers |
| Health | Paracetamol (bulk API) | 292429 | Analgesic & fever treatment | India 82%, China 10% | 6,800 | India (~45% global share). Heavy reliance; limited substitutability |
| Health | Insulin | 293722 | Diabetes treatment | Denmark 74%, Germany 15% | 5,900 | Denmark (~50%). Few producers; cold chain dependent |
| Health | Surgical masks (PPE) | 630790 | Infection prevention | China 65%, Vietnam 18% | 4,200 | China (>40%). Surge demand in crises; concentrated supply |
| Food & Agriculture | Urea fertiliser | 310210 | Crop nutrition (nitrogen) | Qatar 71%, Oman 14% | 5,300 | China (~25%). Gas-linked production; Gulf reliance |
| Food & Agriculture | Potassium chloride (potash) | 310420 | Fertiliser (soil fertility) | Canada 86%, Russia 9% | 7,400 | Canada (~40%). Oligopolistic supply; geopolitical risks |
| Food & Agriculture | Hybrid maize seed | 100510 | Staple crop yields | US 62%, France 21% | 4,000 | US (~35%). Proprietary genetics; IP concentration |
| Energy & Fuels | Diesel fuel | 271019 | Transport & backup power | Singapore 78%, Malaysia 12% | 6,200 | Russia/US (~15% each). Import dependent; short reserves |
| Energy & Fuels | Distribution transformers | 850421 | Electricity grid | China 69%, South Korea 20% | 5,500 | China (~50%). Long lead times; few suppliers |
| Energy & Fuels | Solar inverters | 850440 | Renewable energy | China 82%, Germany 9% | 6,600 | China (~70%). Tech dependence; demand growth |
| Water & Sanitation | Chlorine | 280110 | Water disinfection | Saudi Arabia 92%, UAE 6% | 8,200 | US (~18%). Hazardous transport; few regional suppliers |
| Water & Sanitation | Reverse osmosis membranes | 842121 | Desalination, clean water | Japan 74%, US 16% | 5,900 | Japan (~40%). Few suppliers; long lead times |
| ICT & Logistics | Semiconductors (ICs) | 854231 | ICT, telecoms, vehicles | Taiwan 88%, South Korea 8% | 8,400 | Taiwan (~60% advanced). Extreme geographic concentration |
| ICT & Logistics | Optical fibre cables | 854470 | Internet backbone | China 66%, India 20% | 4,800 | China (~30%). Demand surge; limited suppliers |
| ICT & Logistics | Refrigerated containers (reefers) | 860900 | Cold chain for food & health | China 77%, South Korea 15% | 6,100 | China (~45%). Concentrated production; vital for perishables |