Container/Truck Loading Problem or Geometric Assignment Problem

Given M containers/trucks (cubic large objects) and N cargos/goods (three-dimensional items) such that:

* All cargos/items lie entirely within the containers.
* The items do not overlap.
* The item on the top of other items must have something at the bottom.
* Total weight of the items lie in the containers do not over the capacity of the container

For example

Truck 1:

* Length 9.3m /0.15 each cell = 62 cells
* Width 2.5m / 0.15 each cell = 16.7 cells
* Height 2.4m/ 0.15 each cell = 16 cells
* Weight 18,500 kg

Cargo 1:

* Product name: 13SO1260
* Length 6m / 0.15 = 40 cells
* Width 1.35m / 0.15 = 9 cells
* Height 0.75m / 0.15 = 5 cells
* Weight 2892 kg

Cargo 2:

* Name: BC6020
* Length 1.2m /0.15 = 8 cells
* Width 1.2m/0.15 = 8 cells
* Height 1.2m/0.15 = 8 cells
* Weight 1225.28 kg