



# PACKING INSTRUCTIONS 904: Dry Ice

Date(s) Revised: 2/2008  
Reference: <http://www.uiowa.edu/~hpo>

STATE VARIATIONS: BEG-05, SAG-04, USG-12

OPERATOR VARIATIONS: AM-09, BD-01, CA-08, CO-09, CS-09, CZ-04, HP-02, IC-08, KE-06, TY-06, VN-11

This instruction applies to UN 1845 on passenger and cargo aircraft and CAO (cargo aircraft only).

The General Packing Requirements of 5.0.2 must be met.

## General Requirements

Carbon dioxide, solid (dry ice), when offered for transport by air, must be in packaging designed and constructed to permit the release of carbon dioxide gas and to prevent a build-up of pressure that could rupture the packaging.

Arrangements between shipper and operator(s) must be made for each shipment, to ensure ventilation safety procedures are followed.

The Shipper's Declaration requirements of Subsections 8.1 and 10.8.1 are only applicable when the Carbon dioxide, solid (dry ice) is used as a refrigerant for dangerous goods that require a Shipper's Declaration.

When a Shipper's Declaration is not required, the following information, as required by 8.2.3 for the Carbon dioxide, solid (dry ice), must be contained in the "Nature and Quantity of Goods" box on the air waybill and should be shown in the following order:

- UN1845;
- proper shipping name (**Dry Ice** or **Carbon dioxide, solid**);
- 9 (the word "Class" may be included prior to the number "9");
- the number of packages; and
- the net quantity of dry ice in each package.

The net weight of the Carbon dioxide, solid (dry ice) must be marked on the outside of the package.

Dry ice used as a refrigerant for other than dangerous goods may be shipped in a unit load device or other type of pallet prepared by a single shipper provided that the shipper has made prior arrangements with the operator. In such case, the unit load device, or other type of pallet must allow the venting of the carbon dioxide gas to prevent a dangerous build up of pressure. The shipper must provide the operator with written documentation stating the total quantity of the dry ice contained in the unit load device or other type of pallet.

**Note 1:** Refer to the relevant airline's loading procedures for Carbon dioxide, solid (dry ice) limitations.

**Note 2:** For Air Waybill requirements see 8.2.3. For loading instructions see 9.3.12.

**Note 3:** For cooling purposes, an overpack may contain Carbon dioxide, solid (dry ice), provided that the overpack meets the requirements of Packing Instruction 904.

## Reference

International Air Transport Association's (IATA) Dangerous Goods Regulations (DGR), 49<sup>th</sup> Edition, 2008.