



Shipping Dangerous Goods – Dry Ice

DISCLAIMER: These materials are provided as guidance only to assist properly trained shippers. All shippers are responsible to ensure they are properly trained to ship dangerous goods. These materials do not alter, satisfy, or influence any regulatory requirements. The contents of these materials are subject to change and Purolator accepts no liability for loss or damage resulting from changes, errors, omissions, or misinterpretations of these materials.

Dry Ice – UN1845

Dry Ice is carbon dioxide gas that has been highly compressed so that it is a solid. It has a surface temperature of -78 ° C/-109 ° F that makes it an ideal refrigerant for small parcel shipments requiring cold or freezing temperatures.

In July, 2015 changes to Special Provision 18 of the Transportation of Dangerous Goods Regulations came into effect, allowing a complete exemption for dry ice provided the package is properly vented. The general packaging requirements shown below must still be met.

General packaging requirements for both air and ground shipments:

- Package must be vented to allow for the release of carbon dioxide gas.
- Shipper must determine the appropriate amount of dry ice.
- If a corrugated box is used as the shipping container, it should be of a heavy gauge.
- Any void spaces in the container should be filled with inert fill material.

The following table provides a summary of the requirements for tendering dry ice shipments to Purolator for both air and ground transport.



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	Air shipments	Ground shipments
Safety marks on bill of lading	UN1845, Dry Ice (or Carbon dioxide, solid), Number of packages in shipment, Net quantity of dry ice in each package (kg)	None
Safety marks on package	None (if safety marks displayed on bill of lading)	None
Hazard label	Yes (Class 9) 	No
Shippers' declaration	No (if safety marks displayed on bill of lading)	No
Other requirements	Net quantity of dry ice marked on each package (kg)	None
DG surcharge	Yes	No
Reference	ICAO TI Packing Instruction 954	TDGR Special Provision 18

Purolator's automated shipping systems have a Dry Ice UN1845 option in the menu choices. Choosing this option prints the correct information on the bill of lading.