

## DIRECTIVES FOR PACKAGING NON-DANGEROUS PRODUCTS WITH DRY ICE

If you prepare your package yourself, following these directives will prevent any blockage during transport and ensure that your product(s) is(are) delivered in the best possible conditions.

### PRINCIPLE

Solid carbon dioxide, also called Dry Ice or Cardice™, is a dangerous product. As such, shipments containing Dry Ice must comply with the various regulations pertaining to the transport of dangerous goods, such as ADR (road) and IATA (air).

### QUANTITIES

Dry Ice sublimates at a rate of 2.5 to 5kg every 24h depending on outside temperatures and volumes to be cryo-preserved. National transports last **24h minimum**. International transports can be random due to customs proceedings. As a result, the quantity of Dry Ice used must be adjusted according to the foreseeable transport time from France (see table below).

Means of transport	Volume/Destination		Minimum weight of dry ice (kg)	Maximum Length
	Small volume (samples)	Other volume		
		No	5	1 - 2 days
Any			10	2 - 4 days
Any			15	3 - 6 days
Any			20	4 - 8 days
Any	Higher-risk countries		30	6 - 12 days

**ULISSE cannot be held responsible for non-compliant deliveries due to faulty or insufficient dry ice.**

### COMPULSORY PACKAGING

As per Chapters 5.0.2.4.1 (IATA) and 4.1.1.1 (ADR), packagings must be:

- **good quality**
- **strong enough** to withstand the shocks and loadings normally encountered in transport
- constructed and closed as to prevent any loss of content which might be caused under normal conditions of transport, by vibration or by changed in temperature, humidity or pressure
- free from any dangerous residue.

As per Packing Instruction 954 (IATA), **your package must not be airtight** in order “to permit the release of carbon dioxide gas and to prevent a build-up of pressure that could rupture the packaging”.

### COMPULSORY MARKING AND LABELLING

As per Chapter 7 (IATA) and the picture below, your package must bear:

- a **Class 9 label** in 10x10cm (originals only -no copies allowed- provided free of charge by ULISSE with any transport service)
- the mention “**UN1845 Dry Ice**” and **NET weight in kg** of dry ice
- the full **names and addresses of the shipper and the consignee** (except for DHL).

All marks must be readily legible and durable and must be at least **12mm** min. high (or **6mm** for packages weighing **30kg** or less).

All marks and labels must be on the same side of the package without being made unreadable, even in the slightest way (masking, folding, tearing, etc.) otherwise the package may be refused without possible compensation.

