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**SAMPLE  
SHIPPING  
CONTAINERS  
UN/ICAO**

**BULLETIN 119  
(4-15)**

## SAMPLE SHIPPING CONTAINERS - UN/ICAO

DRUMS FOR AIR SHIPMENT OF FUEL SAMPLES:  
1 LITER & 5 LITER INCLUDING APPROVED CARTONS

INTERNAL EPOXY COATING WILL NOT INFLUENCE  
TESTS FOR WISM, CONDUCTIVITY, GUM, OR JFTOT

VERMICULITE AVAILABLE FOR 1 LITER CARTON SHOWN BELOW



Fuel sample containers for shipment by air are controlled by UN/ICAO rules. The fuels that are the subject of this bulletin are called Class 3 - Flammable Liquids. The table that follows defines the way various fuels are classified.

We offer a packaging system that conforms to packaging instructions 353 or 355 in 1 or 5 liter drums. These are additional references. Our drums and cartons conform to these requirements:

**AGENCY**  
UN/ICAO  
IATA

**INNER CONTAINER (STEEL)**  
Rated 1A1  
Rated 1c3

**OUTER CONTAINER (FIBERBOARD)**  
Rated 4G  
Rated T5A

YOU CAN SHIP VIA CARGO AIRCRAFT ANYTHING THAT IS PERMITTED ON PASSENGER AIRCRAFT.

**NOTE:** These drums can be re-used if inspection shows no damage and if the plug gasket proves to be adequate to prevent leakage.

## HOW TO ORDER

MODEL No.	DESCRIPTION
<a href="#">TL-3816*</a>	1 liter drum only
<a href="#">TL-3818</a>	5 liter drum only
<a href="#">TL-3817*</a>	1 liter drum with carton
<a href="#">TL-3819</a>	5 liter drum with carton
<a href="#">TL-8335</a>	1 - 16 lb. bag of vermiculite (it takes 2 lbs. to fill the void space in a 1 liter carton)

\* If you require safety wire holes in the plug, add the suffix "-A" to the part number.

## WEIGHTS AND DIMENSIONS

1 liter drum in carton:	7x7x12.2 inches (178x178x310 mm) - 2 lbs. (0.9 kg)
5 liter drum in carton:	8.8x8.8x8.8 inches (225x225x225 mm) - 4.4 lbs. (2 kg)

## HOW TO PACKAGE

After the fuel sample has been placed in the drum, tighten the threaded plug. Make sure the fuel resistant gasket is in place. The inner container must never be filled completely so as to avoid leakage or rupture as a result of thermal expansion and/or pressure caused by a temperature build-up.

Turn the drum upside down to be sure of no leakage from the plug.

If lock-wiring is required, secure the threaded plug so that it cannot loosen during shipment. Twist the wire so that force is applied to tighten the plug. Not loosen it.

**1 LITER:** Place the drum in the carton so it is supported by the corrugated spacer and fill the entire void under, around, and on top of the drum with vermiculite or sawdust to act as an absorbent.

**5 LITER:** Place the drum in the corrugated carton. It is not necessary to fill the remaining space with sawdust or vermiculite because the combination of the 5 liter drum and corrugated carton has been granted a UN approval. The drum itself is rated 1A1.

Tape all carton edges - top, bottom, and sides - with good quality packaging tape.

PRODUCT	UN OR ID No.	FLASH POINT (CLOSED CUP)	PACKAGING GROUP	PASSENGER AIRCRAFT PKG. INSTRUCTIONS	MAXIMUM QUANTITY (LITERS)
Aviation Turbine Fuel	1863	If greater than 23°C (73.5°F) but less than 60°C (140°F)	III	355	60
		If less than 23°C	II	353	5
Kerosene	1223	If greater than 23°C (73.5°F) but less than 60°C (140°F)	III	355	60
Motor Spirit, Gasoline, Petrol	1203	If greater than 23°C (73.5°F)	II	353	5