

OPTION A Is the container 0.95 L (1 quart) or less capacity and charged to not more than 170 psig (1172.1 kPa) at 21.1 °C (70 °F)? IF YES, THEN USE PI-1018E-LQ PACKING INSTRUCTION. NO? GO TO OPTION B

OPTION B Is the container not more than 114 L (30 gallons) capacity and charged to not more than 75 psig (517.1 kPa) at 21.1 °C (70 °F)? IF YES, THEN USE PI-1018E-LQ PACKING INSTRUCTION.



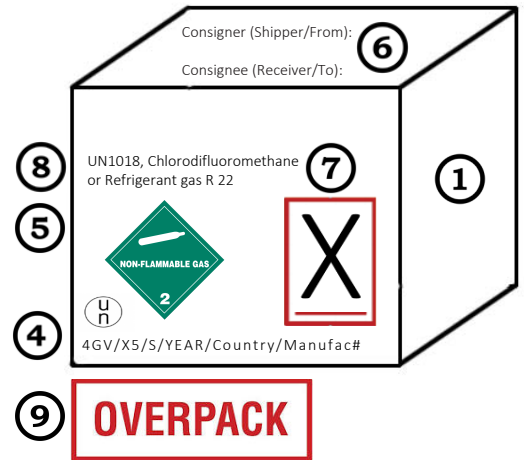
If your answer is 'NO' to both Option A and Option B above **AND/OR** your total package weight (contents + packaging) is greater than (>) 66 lbs, you must use this packing instruction to pack and ship your product.

MODE OF TRANSPORT PROHIBITIONS: Ground shipping: **ALLOWED** | NO AIR OR VESSEL SHIPPING IS PERMITTED W/O WRITTEN AUTHORIZATION FROM LIIHAZMAT@LENNOXINTL.COM. IF WRITTEN AUTHORIZATION IS GIVEN, LIMITS ARE: Passenger aircraft/ rail: **ALLOWED 165 lb (75kg) limit** | Cargo aircraft: **ALLOWED 331 lb (150 kg) limit** | Vessel: **ALLOWED, Stowage Category A**

MATERIALS OF TRADE EXCEPTION - MAY BE SOLD BY LENNOX STORES TO TRADESMEN IN QUANTITIES NOT TO EXCEED A TOTAL OF 220 POUNDS (100 KILOGRAMS) OF PRODUCT UNLESS tradesmen shows proof of commercial drivers license (CDL) with hazardous materials /dangerous goods endorsement. If tradesman has endorsed CDL, sales volume limits do not apply.

CONTAINER & PACKAGING REQUIREMENTS

- ① Use **strong outer packaging** appropriate for weight of contents (i.e. box must be rated for the maximum weight being placed in the box). If you cannot tell the weight rating of the box, please ask your supervisor and/or contact Lennox Environmental at liihazmat@lennoxintl.com or +1-972-497-7532.
- ② **Protect valves from leaking or damage by wrapping**, using a cap, or other protective devices. If for any reason, wrapping, caps and protective devices are not available or practical, exemptions may apply. Contact LIIHazmat@lennoxintl.com for a waiver.
- ③ **Add separation materials** to prevent damage to containers AND hold upright.
- ④ **Cardboard packing box must have a PREPRINTED UN symbol** on it, and a rating of 4GV/X5/S, 4GV/X7/S, or 4G/Y24.2/S. IF A BOX IS REQUIRED to ship this product. If you do not have a U/N certified box contact your supervisor, you may not use a non-U/N certified box to ship this product.
- ⑤ **Box must be labeled with the Class 2 Non-Flammable Gas Label** on two opposite **sides** of box. NEVER PUT LABELS ON TOP OR BOTTOM OF BOX.
- ⑥ **Place the Consigner (Shipper/From) / Consignee (Receiver/To) on box** with weather resistant marking.
- ⑦ **No Orientation Arrow is required for this UN number.**
- ⑧ **Box must be marked** with "UN1018" and "Chlorofluoromethane or Refrigerant gas, R 22" within 6 inches of labels in ⑤
- ⑨ **If you are putting an inner package/box** holding this product inside an outer box or on a pallet (i.e. using an 'overpack'), inner boxes MUST MEET THIS PACKING INSTRUCTION. **AND**, outer box or pallet shrink wrap MUST BE MARKED and LABELED with every marking/label used on the inner boxes if not visible through the overpack. **Outer box must have the OVERPACK marking.**



An 'overpack' is a container (box, shrink-wrapped pallet, etc.) used to consolidate individual containers in an easier to ship form.

FOR QUESTIONS OR WAIVERS PLEASE CONTACT LIIHAZMAT@LENNOXINTL.COM

DO NOT SHIP UN1018 IN THE SAME VEHICLE WITH THESE CLASSES



NO SEPARATION RESTRICTIONS APPLY

OPTION A Is the container 0.95 L (1 quart) or less capacity and charged to not more than 170 psig (1172.1 kPa) at 21.1 °C (70 °F)? IF YES, USE THIS PACKING INSTRUCTION.

OPTION B Is the container not more than 114 L (30 gallons) capacity and charged to not more than 75 psig (517.1 kPa) at 21.1 °C (70 °F)? IF YES, USE THIS PACKING INSTRUCTION.



If you answered 'NO' to Option A or B, use packing instruction PI-1018E-R instead.

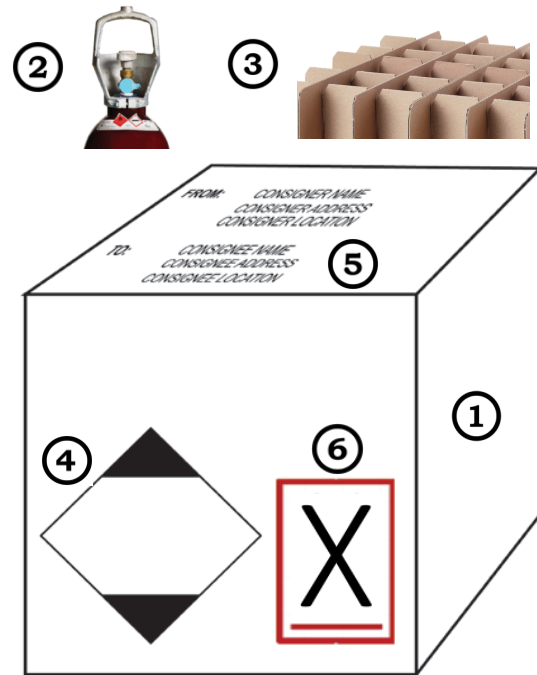
OR If the total package weight (contents + packaging) is greater than (>) 66 lbs, use must use PI-1018E-R.

MODE OF TRANSPORT PROHIBITIONS: Ground shipping: **ALLOWED** | Passenger aircraft/rail: **ALLOWED 165 lb (75kg) limit** | Cargo aircraft: **ALLOWED 331 lb (150 kg) limit** | Vessel: **ALLOWED, Stowage Category A**

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- ① Use **strong outer packaging** appropriate for weight of contents (i.e. box must be rated for the maximum weight being placed in the box). If you cannot tell the weight rating of the box, please ask your supervisor and/or contact Lennox Environmental at liihazmat@lennoxintl.com or +1-972-497-7532.
- ② **Protect valves from leaking or damage by wrapping**, using a cap, or other protective devices. If for any reason, wrapping, caps and protective devices are not available or practical, exemptions may apply. Contact LIIHazmat@lennoxintl.com for a waiver.
- ③ **Add separation materials** to prevent damage to containers AND hold upright.
- ④ **Box must be marked with the Limited Quantity (LQ) marking** on one side of box.
- ⑤ **Place the Consigner (Shipper/From) / Consignee (Receiver/To) on box** with weather resistant marking.
- ⑥ **No Orientation Arrow is required for this UN number.**
- ⑦ **If you are putting an inner package/box** holding this product inside another box or on a pallet (i.e. using an 'overpack'), inner boxes **MUST MEET THIS PACKING INSTRUCTION. AND**, outer container or shrink wrap **MUST BE MARKED** and **LABELED** with every marking/label used on the inner boxes if not visible through the overpack. **Outer box must have the OVERPACK marking.**



An 'overpack' is a container (box, shrink-wrapped pallet, etc.) used to consolidate individual containers in an easier to ship form.

- ⑧ **Weigh the completed package once all items have been added.** Verify max gross weight of the package **DOES NOT EXCEED 66 lbs (30 kg)**. If weight exceeds 66 pounds you must use **PI-1018E-R** for fully regulated hazardous materials packing instructions instead.



WARNING- If liihazmat@lennoxintl.com approves **IN WRITING** shipping by air or rail, you must add **this label to two OPPOSITE sides of box** (in addition to the LQ label) and not exceed the quantity limits under **MODE OF TRANSPORT PROHIBITIONS** listed above. IATA shipping papers are required for **AIR SHIPPING**.

SHIPPING PAPER CHECK IS REQUIRED Before providing shipping papers to a carrier, you must verify the product description on the shipping paper (bill of lading) is correct. If your **package** weighs 66 pounds (lbs) or less, you must add **", Ltd Qty"** to the shipping paper using a pen after the description located in the **SEE !!WARNING!! IMAGE. PACKAGE WEIGHT:** By legal definition includes all contents including hazardous materials in one container or on a pallet yielding a **TOTAL** weight of shipment (not just individual hazardous material weight).

!! SHIPPING PAPER WARNING !!
ADD ", LTD QTY" ON ANY SHIPMENT 66 LBS OR LESS

Descriptions of articles	special marks and Exceptions
***** DANGEROUS GOODS *****	(X.X kg)
UN1018, Refrigerant gas R 22, 2.2	, Ltd Qty ←
AIR CONDITIONERS, FURNACES, SOLAR HEATING AND COOLING EQUIPMENT, AND MATERIALS EQUIPMENT, AND SUPPLIES USED IN THE MANUFACTURE, SALE, AND DISTRIBUTION THEREOF.	

FOR QUESTIONS OR WAIVERS PLEASE CONTACT LIHAZMAT@LENNOXINTL.COM

DO NOT SHIP UN1018 IN THE SAME VEHICLE WITH THESE CLASSES



NO SEPARATION RESTRICTIONS APPLY

Data from the Hazardous Materials Table

Source: 49 CFR §172 (2018/07)

(3) Hazard Class 2.2 Non-toxic, non-flammable gases	(4) Identification number ⓘ UN 1018	(5) Packing Group ⓘ n/a
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(6) Labels ⓘ



(7) Special Provisions (§172.102) ⓘ

Note:
Special provisions may be very complex. The extracts are taken from 49 CFR §172.102. Please be careful with the information, as necessary, additional conditions may be applied that are not written here. Please check the original source and report bugs.

T50	see 49 CFR §172.102
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(8) Packing Authorizations (§173.***) ⓘ

(8A) Exceptions	306	see 49 CFR §173.306
(8B) Non-bulk	304	see 49 CFR §173.304
(8C) Bulk	314, 315	see 49 CFR §173.314, 315

(9) Quantity Limits ⓘ

(9A) Passenger aircraft/rail	75 kg
(9B) Cargo aircraft only	150 kg

(10) Vessel stowage ⓘ

(10A) Location	A Stowage category "A" means the material may be stowed "on deck" or "under deck" on a... ↗ read more
(10B) Other	n/a

United Nations/North American Number Datasheet

[Print Friendly Page](#)

UN/NA 1018



[CAMEO Chemicals](#) has 1 chemical datasheet with response recommendations for this UN/NA number. Response recommendations from the ERG are provided below.

Emergency Response Guidebook (ERG, 2016)

[What is this information?](#)

Material Names

Chlorodifluoromethane
Refrigerant gas R-22



Response Guide 126

[Gases - Compressed or Liquefied \(Including Refrigerant Gases\)](#)

English Español Français

There are no **initial isolation and protective action distances** listed in the ERG.

The ERG doesn't predict that large amounts of **toxic-by-inhalation gases** will be produced if this material is spilled in water.

Hazmat Table (49 CFR 172.101)

[What is this information?](#)

UN/NA	Proper Shipping Name	Hazard Class	Labels	Notes*
UN	Chlorodifluoromethane or Refrigerant gas R 22	2.2	2.2	

Class or division	Notes	1.1	1.2	1.3	1.4	1.5	1.6	2.1	2.2	2.3 gas zone A	2.3 gas Zone B	3	4.1	4.2	4.3	5.1	5.2	6.1 liquids PG I zone A	7	8 liquids only	
Explosives	1.1 and 1.2 A	*	*	*	*	*	*	X	X	X	X	X	X	X	X	X	X	X		X	X
Explosives	1.3	*	*	*	*	*	*	X		X	X	X		X	X	X	X	X		X	
Explosives	1.4	*	*	*	*	*	*			O	O	O		O				O		O	
Very insensitive explosives	1.5 A	*	*	*	*	*	*	X	X	X	X	X	X	X	X	X	X	X		X	X
Extremely insensitive explosives	1.6	*	*	*	*	*	*														
Flammable gases	2.1		X	X	O	X				X	O							O		O	
Non-toxic, non-flammable gases	2.2		X			X															
Poisonous gas Zone A	2.3		X	X	O	X		X				X	X	X	X	X	X			X	
Poisonous gas Zone B	2.3		X	X	O	X		O				O	O	O	O	O	O			O	
Flammable liquids	3		X	X	O	X			X		O						O			X	
Flammable solids	4.1		X			X				X	O							X		O	
Spontaneously combustible materials	4.2		X	X	O	X				X	O							X		X	
Dangerous when wet materials	4.3		X	X		X				X	O							X		O	
Oxidizers	5.1 A		X	X		X				X	O	O						X		O	
Organic peroxides	5.2		X	X		X				X	O							X		O	
Poisonous liquids PG I Zone A	6.1		X	X	O	X		O				X	X	X	X	X	X			X	
Radioactive materials	7		X			X		O													
Corrosive liquids	8		X	X	O	X				X	O		O	X	O	O	O	X			