

Good morning,

The attached communication is intended for anyone who manages and/or uses **liquid nitrogen** and supplier-provided services for secondary refill of liquid nitrogen storage containers. Secondary refill also known as “trans refilling”, is a process performed by the supplier to transfer liquid nitrogen from a large dewar to small UC Davis owned dewars used for long term storage of biological samples.

The United States **Food and Drug Administration (FDA)** is requiring suppliers of Liquid Nitrogen to comply with Chain of Custody requirements for GMP Medical National Formulary (NF) Grade Liquid Nitrogen used for secondary trans refilling. Please see the announcement from Airgas below.

This change does not impact the purchase or rental of liquid nitrogen dewars. Researchers may choose to rent a liquid nitrogen dewar containing 160 to 265 liters for the purpose of refilling storage containers, without the suppliers participation in the refill process.

Researchers who need the **secondary refill services provided by Airgas**, can follow the directions below to continue uninterrupted service and comply with these updated requirements. The previous part numbers for secondary trans refilling services will not be available. The new part numbers are included in the attached communication.

What Do I Need To Do?

Each department that uses secondary trans refill services of liquid nitrogen should:

- Create a new Purchase Order, citing Agreement # A10016, which includes the new refill service part numbers.
- Close any existing Purchase Orders citing the old part numbers; this will remove any existing encumbrances created by the previous POs.

Who Can I Contact With Additional Questions?

Contact the UC Davis Strategic Sourcing unit of Supply Chain Management at strategicsourcing@ucdavis.edu.

You can also contact Airgas, local sales representative, Brooke Stahmer at Brooke.Stahmer@Airgas.com or 916-207-4637.



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Dear UC System Customer:

The FDA is enforcing new packaging, processing, documentation and label requirements for liquid nitrogen filled into open mouth dewars for refill applications. As a result, Airgas is now required to supply a new product that meets these requirements. Therefore, Airgas will provide you with Medical GMP Nitrogen NF for your open mouth dewar. The nitrogen product NI NFDEWARREFILL that Airgas was previously supplying to you is no longer available for open mouth dewar fill applications and will be discontinued no later than December 31, 2018. Please update your records and purchase orders to reflect the new part numbers noted below to avoid service disruptions.

Manuf.	Manufacture Number	Description	UOM	Volume	List	Proposed 2019 Price	Accepted 2019 Price	Net Impact	weighted Impact
Airgas	NI GMPDEWARFILL4L	NITROGEN GMP DEWAR REFILL 4 LT	CL	4 LT	66.76	15.60	15.60	0%	\$ -
Airgas	NI GMPDEWARFILL5L	NITROGEN GMP DEWAR REFILL 5 LT	CL	5 LT	83.45	19.50	19.50	0%	\$ -
Airgas	NI GMPDEWARFILL10L	NITROGEN GMP DEWAR REFILL 10 LT	CL	10 LT	166.90	39.00	39.00	0%	\$ -
Airgas	NI GMPDEWARFILL12L	NITROGEN GMP DEWAR REFILL 12 LT	CL	12 LT	200.28	46.80	46.80	0%	\$ -
Airgas	NI GMPDEWARFILL15L	NITROGEN GMP DEWAR REFILL 15 LT	CL	15 LT	250.35	58.50	58.50	0%	\$ -
Airgas	NI GMPDEWARFILL18L	NITROGEN GMP DEWAR REFILL 18 LT	CL	18 LT	300.42	70.20	70.20	0%	\$ -
Airgas	NI GMPDEWARFILL20L	NITROGEN GMP DEWAR REFILL 20 LT	CL	20 LT	333.80	78.00	78.00	0%	\$ -
Airgas	NI GMPDEWARFILL25L	NITROGEN GMP DEWAR REFILL 25 LT	CL	25 LT	417.25	97.50	85.00	13%	\$ -
Airgas	NI GMPDEWARFILL30L	NITROGEN GMP DEWAR REFILL 30 LT	CL	30 LT	500.70	117.00	87.00	26%	\$ -
Airgas	NI GMPDEWARFILL35L	NITROGEN GMP DEWAR REFILL 35 LT	CL	35 LT	584.15	136.50	101.50	26%	\$ -
Airgas	NI GMPDEWARFILL40L	NITROGEN GMP DEWAR REFILL 40 LT	CL	40 LT	667.60	156.00	110.00	29%	\$ -
Airgas	NI GMPDEWARFILL45L	NITROGEN GMP DEWAR REFILL 45 LT	CL	45 LT	751.05	175.50	123.75	29%	\$ -
Airgas	NI GMPDEWARFILL50L	NITROGEN GMP DEWAR REFILL 50 LT	CL	50 LT	834.50	195.00	195.00	0%	\$ -
Airgas	NI GMPDEWARFILL55L	NITROGEN GMP DEWAR REFILL 55 LT	CL	55 LT	917.95	214.50	214.50	0%	\$ -
Airgas	NI GMPDEWARFILL60L	NITROGEN GMP DEWAR REFILL 60 LT	CL	60 LT	1001.40	234.00	234.00	0%	\$ -
Airgas	NI GMPDEWARFILL75L	NITROGEN GMP DEWAR REFILL 75 LT	CL	75 LT	1251.75	292.00	116.25	60%	\$ -
Airgas	NI GMPDEWARFILL80L	NITROGEN GMP DEWAR REFILL 80 LT	CL	80 LT	1335.20	312.00	120.00	62%	\$ -
Airgas	NI GMPDEWARFILL90L	NITROGEN GMP DEWAR REFILL 90 LT	CL	90 LT	1502.10	351.00	121.50	65%	\$ -
Airgas	NI GMPDEWARFILL100L	NITROGEN GMP DEWAR REFILL 100 LT	CL	100 LT	1669.00	390.00	125.00	68%	\$ -
Airgas	NI GMPDEWARFILL110L	NITROGEN GMP DEWAR REFILL 110 LT	CL	110 LT	1835.90	429.00	137.50	68%	\$ -
Airgas	NI GMPDEWARFILL115L	NITROGEN GMP DEWAR REFILL 115 LT	CL	115 LT	1919.35	448.50	143.75	68%	\$ -
Airgas	NI GMPDEWARFILL125L	NITROGEN GMP DEWAR REFILL 125 LT	CL	125 LT	2086.25	487.50	150.00	69%	\$ -
Airgas	NI GMPDEWARFILL165L	NITROGEN GMP DEWAR REFILL165 LT	CL	165 LT	2753.85	643.50	156.25	76%	\$ -
Airgas	NI GMPDEWARFILL175L	NITROGEN GMP DEWAR REFILL 175LT	CL	175 LT	2837.30	663.00	175.00	74%	\$ -

The additional work required to produce and comply with the FDA process guidelines creates substantial additional cost burden for Airgas. Therefore your purchase price and part number have changed. Some Liquid Nitrogen users may want to consider renting larger containers (160-265L) to enjoy cost savings and

convenience, to dispense your own nitrogen as needed. If you want to explore this option, please email Airgas customer service at ncn.customer.service@airgas.com to request a quote with the following:

- Airgas account number
- NI NF180LT22 (nitrogen dewar) roughly \$60
- Y154CH429538-AG \$180.00 Cryogenic Transfer Hose
- 30 Y15PSB38-AG \$85.00 Phase Separator/Diffuser
- Let us know if you require Cryo gloves, safety glasses, face shield and O2 deficiency monitor.

If you have any questions or require further information please contact Brooke Stahmer brooke.stahmer@airgas.com or customer service representative at (800) 336-4004.

Sincerely,

Brooke Stahmer

Brooke Stahmer
UC Davis Account Manager
Specialty Gases Specialist

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