

# SAFETY ALERT

January 6, 2023

## Static Chemical Management System RFID Tags

All primary chemical containers and gas cylinders need to have a RFID tag affixed with information entered into the [Chemical Management System \(CMS\) database](#). Certain gases are used in high volumes and it can become problematic affixing and updating a new RFID tag every time the cylinder is replaced. This can include commonly used gases such as argon, helium, air, oxygen or nitrogen. In this case, a “static RFID tag” can be generated that is reused over and over for the same gas.

When a static RFID tag is used, there are certain steps that must be taken to ensure that the CMS chemical inventory remains accurate. Otherwise, commonly used gases will be reported as not tagged or not received. There can also be instances where multiple cylinders are listed in the CMS inventory that actually no longer exist in instances where the RFID tag is applied directly to the cylinder and it is returned to the vendor as an empty.

See the following training for more specifics on the Chemical Requisition Process in FMS: <https://training.lbl.gov/videos/CMS-purchasing/story.html>

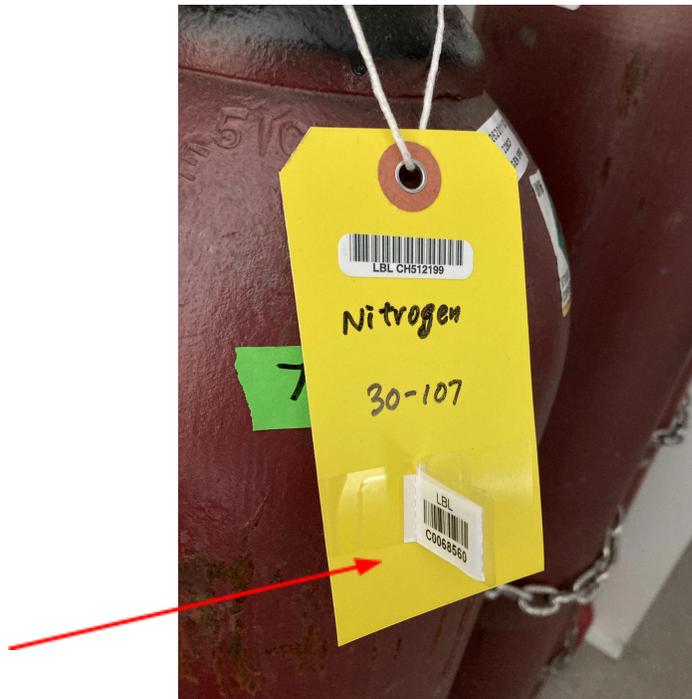
In summary, the process for using static RFID tags for gas cylinders is as follows:

1. Option 1- Post a “[CMS Static Bar Code Sheet](#)” on the wall near where gas cylinders are stored in the lab area. Complete the form and apply a static RFID tag for each gas cylinder. See example below.
2. Option 2- Apply a removable hanging tag to each gas cylinder. Affix a static RFID tag to the hanging tag. Simply transfer the hanging tag to the new cylinder each time it is replaced. See example below.
3. Enter the static RFID tags and appropriate gas cylinder information into the CMS database. These are your “static codes” that will remain for each type of gas cylinder normally maintained in the lab area. Keep track of these codes for future ordering.
4. When ordering replacements cylinders, go to eBuy/ePro and on the order form indicate that “yes” the item is a chemical. **Enter the established static RFID tag number for the particular gas (ID number starts with “C”).** The gas will automatically be “received” in the system. There is no need to add any new RFID tags since the static RFID tag number

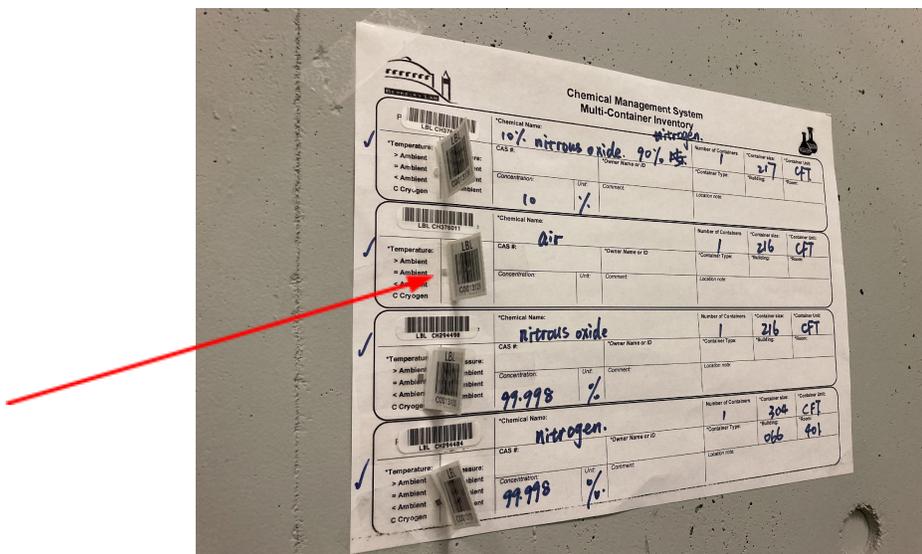
is already in the system. You may need to maintain a list of static RFID tag numbers and use this as a reference when ordering common gases.

5. An exception to this process is for toxic gas cylinders. This includes gases such as ammonia, carbon monoxide, hydrogen chloride, chlorine, etc. These must have the RFID tag affixed directly on the cylinder. We are not permitted to use static RFID tags due to security precautions required for tracking the individual cylinders. See: [Restricted Chemical List](#)

If you have questions regarding RFID tags for chemicals and gases in your lab area, contact the ETA Safety Manager, Ron Scholtz, at X8137.



Example removable tag with RFID attached



**Example Static Bar Code Sheet with RFID tags affixed**