

Accurately tracking the quantities of hazardous gases is an important part of the Penn Chemical Inventory Program.

## HOW TO FIX RECORDS OF CHEMICALS ERRONEOUSLY ENTERED AS GASES

Sometimes, when liquid or solid chemical records are added to ChemTracker, they are inadvertently assigned the physical state “gas”. The instructions below explain how you can identify these errors and correct them.

1. In the ChemTracker tab, go to the Physical State field and select “Gas” from the drop-down menu. Click the “Submit” button.

Filters

Chemical Name:  CAS Number:  Chemical Hazards:

Chemical Synonym:  Database Linkage Status:   Controlled Substance?

Physical State:  Location (Space):

Solid  
 Liquid  
 Gas  
 Liquefied Gas

Shelf:  Specific Location Note:

Last Updated Before:

Container IDs:

2. Identify any records that should not have a state of “gas”. Click the “Edit” link.

Chemical Name ▲	CAS #	State	Amount	Units	Location	Container ID	Edit	Remove	Bench	Shelf
<a href="#">Formaldehyde gas</a>	50-00-0	Gas	1	ml	<a href="#">Biomedical Research Building 2 - 331</a>	<a href="#">298083</a>	<a href="#">Edit</a>	<a href="#">Remove</a>		

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3. In the Chemical Name field, backspace to remove text referring to gas until only the root name appears.
  - a. Additional options will then populate the drop-down menu.
  - b. If you see a name that accurately describes your chemical, select it.
  - c. If you do not see a suitable name for your chemical, continue typing its full name, pausing after each word or number entered to allow for re-population of the drop-down menu choices.
  - d. Make a selection if you see one that matches. (If you still do not see a match, proceed to instructions provided in the [ChemTracker User's Guide](#) subsection titled "Chemicals not found in database".)
  - e. Click the "Update" button at the bottom of the window to save the change.
  - f. See examples below.

**Edit Chemical Container**

Look Up Chemical Name or CAS Number \_\_\_\_\_

Chemical: \*

Formaldehyde

- 6-Formaldehydecoumarin (Solid)
- FORMALDEHYDE-2,4-DINITROPHENYLHYDRAZONE (Solid)
- Formaldehyde (Gas)
- Formaldehyde 200mg/L HCHO (Liquid)
- Formaldehyde <0.74% In inert carrier gas (Gas)
- Formaldehyde bis(2-fluoro-2,2-dinitroethyl) acetal (Liquid)
- Formaldehyde bis(beta-chloroethyl) acetal (Liquid)
- Formaldehyde buffered aqueous solution, 3-20 wt. % in H2O (Liquid)
- Formaldehyde cyanohydrin, stabilized, in water (Liquid)
- Formaldehyde dehydrogenase (Solid)
- Formaldehyde diethyl acetal (Liquid)
- Formaldehyde dimethyl acetal (Liquid)
- Formaldehyde dimethyl mercaptal (Liquid)
- Formaldehyde dimethyl mercaptal S-oxide (Liquid)
- Formaldehyde diphenyl mercaptal (Solid)
- Formaldehyde ethylene acetal (Liquid)
- Formaldehyde hydrosulfite (Solid)
- Formaldehyde monitor discs (3M) (Solid)
- Formaldehyde solution, 36.5-38%, 10% methanol (Liquid)
- Formaldehyde trimethylene acetal (Liquid)
- None of the above--

298072

**Edit Chemical Container**

Look Up Chemical Name or CAS Number \_\_\_\_\_

Chemical: \*

Formaldehyde solution

- Formaldehyde solution, 10% (Liquid)
- Formaldehyde solution, 36.5-38% in H2O without methanol (Liquid)
- Formaldehyde solution, 36.5-38%, 10% methanol (Liquid)
- None of the above--

## CORRECTING GAS CYLINDER SIZE

Penn's Chemical Inventory Program requires that the full cylinder volume of gas and/or weight of liquified gas be stated as the quantity.

To correct the unit designations of *cylinder, large*; *cylinder, medium*; or *cylinder, small*, follow the steps below.

1. In the ChemTracker tab, go to the Physical State field and select "Gas" from the drop-down menu. Click the "Submit" button.

Filters

Chemical Name:  CAS Number:  Chemical Hazards:

Chemical Synonym:  Database Linkage Status:   Controlled Substance?

Physical State:  Location (Space):

Solid  
 Liquid  
 Gas  
 Liquefied Gas

Shelf:  Specific Location Note:

Last Updated Before:

Container IDs:

2. Find the record that requires editing. Click the "Edit" link.

Chemical Name	CAS Number	State	Amount	Units	Location	Container ID	Edit
<a href="#">propane (63%) and ethane mix (37%)</a>		Gas	1	cylinder_medium	<a href="#">Stellar-Chance Laboratories - 914</a>	<a href="#">434299</a>	<a href="#">Edit</a>

3. Change the amount and the units to reflect the volume (in liters) or weight of your hazardous gases using Appendix A: Gas Cylinder chart from the [ChemTracker User's Guide](#), referenced below. Click the "Update" button at the bottom of the window to save the change. If you do not see your cylinder below, contact the [Chemical Inventory Team](#) to ask what amount and unit to use.

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Gas	Cylinder Description	Cylinder Size	Amount	Units
Oxygen Gas (greater than 21%)		Cylinder size 10	340	L
Oxygen Gas (greater than 21%)		Cylinder Size E	660	L
Oxygen Gas (greater than 21%)	7 inch x 33 inch	Cylinder Size 80	2407	L
Oxygen Gas (greater than 21%)	9 inch x 51 inch	Cylinder Size 200	7107	L
Oxygen Gas (greater than 21%)	9 inch x 55 inch	Cylinder size 300	9543	L
Hydrogen Gas (greater than 5%)	7 inch x 19 inch	Cylinder Size 35	878	L
Hydrogen Gas (greater than 5%)	7 inch x 33 inch	Cylinder Size 80	2095	L
Hydrogen Gas (greater than 5%)	9 inch x 51 inch	Cylinder Size 200	5578	L
Hydrogen Gas (greater than 5%)	9 inch x 55 inch	Cylinder Size 300	7391	L
Carbon Monoxide		Cylinder Size 150A	400	L
Carbon Monoxide	6 inch x 23 inch	Cylinder Size 10	850	L
Carbon Monoxide	7 inch x 33 inch	Cylinder Size 80	2000	L
Carbon Monoxide	9 inch x 51 inch	Cylinder Size 200	5100	L
Carbon Monoxide	9 inch x 55 inch	Cylinder size 300	6800	L
Methane	7 inch x 19 inch	Cylinder Size 35	1132	L
Methane	7 inch x 33 inch	Cylinder Size 80	2831	L
Methane	9 inch x 51 inch	Cylinder Size 200	7400	L
Methane	9 inch x 55 inch	Cylinder size 300	10100	L
Nitric Oxide		Cylinder Size 35	226	L
Ammonia		lecture bottle	283	L
Ammonia	9 inch x 51 inch	Cylinder Size 200	5578	L
Propane Gas	Single use Fatboy tank with standard torch fitting		16.92	oz
Propane Gas	Liquefied Gas		100	G
Propane Gas	Liquefied Gas		300	G