**Chemical Storage in the Khusnutdinova Unit**

CMS: <https://cms.oist.jp>

When entering chemicals into the system, put two labels on the bottle:

1. Barcode (vertically if possible)
2. Round label corresponding to hazardous class; write down storage location code!

Color-coded round labels:

DELETERIOUS (*MANDATORY* to control used amounts) - Red

POISONOUS (*MANDATORY* to control used amounts) - Green

FLAMMABLE (*MANDATORY* to control used amounts) - Yellow

*OPTIONAL* to control used amounts (“Used amount management: optional”) – White

SPECIALLY CONTROLLED WASTE (Blue)– it’s not a hazardous class, but indicates

 that we need to separate waste, so just for you information (for halogenated solvents; benzene)

Specially controlled industrial waste chemicals can be deleterious or poisonous, so put two labels and store according to hazardous class (non-hazardous, deleterious, poisonous or flammable).

For example, Carbon Tetrachloride should be labeled as Deleterious, and it’s in a Specially Controlled Waste category. Store it with other Deleterious reagents and put two labels (for example, if it’s stored in Flammable Cabinet 1 tray D1, write down “FC1-D1” on the label):

**FC1-D1**

Chemicals within each hazardous class should be stored with the same class of chemicals, but they should not be mixed with other classes (deleterious is stored with deleterious in a separate tray/drawer, poisonous with poisonous in a separate tray, etc, but deleterious is not stored together with poisonous or non-hazardous).

Store chemicals according to our storage system and follow common chemical sense – see the list of storage locations.

This is a name of an act, but it doesn’t mean that the chemical is poisonous!

Note: 

Hazardous class in indicated here, on the right hand side (in this case, flammable)

How to input TCI and Aldrich chemicals:

Use catalog number on a TCI label shown in the left top corner and search by “product code”:

H0111



For Aldrich catalog numbers, enter only the first part of the number without amounts and search by “product code”:

514330 (not 514330-100ML!)



ORGANIC WASTE categories:

1. Non-halogenated organic solvents (water content less than 5%)
2. Specially controlled industrial waste – includes dichloromethane, carbon tetrachloride and benzene as well as some other common chlorinated solvents. Technically, chloroform is not on the list of specially controlled industrial waste, but if you use small amounts, you can collect it together with dichloromethane waste. If you use large amounts of chloroform, please collect is separately, since the disposal procedure is different (less expensive) compared to specially controlled waste.

**Storage in C704**

|  |  |
| --- | --- |
| **Location** | **Code** |
| Flammable Cabinet 1, | FC1 |
| Flammable Cabinet 2 | FC2 |
| Hood1A | Hood1A |
| Hood1B | Hood1B |
| Hood2A | Hood2A |
| Hood2B | Hood2B |
| Hood3A | Hood3A |
| Hood3B | Hood3B |
| Hood4A: Non-hazardous (white label) inorganic chemicals (non-corrosive) | Hood4A |
| Hood4B: for **deleterious** inorganic chemicals and **strong bases** | Hood4B |
| Hood5A | Hood5A |
| Hood5B | Hood5B |
| Hood6A | Hood6A |
| Hood6B | Hood6B |
| Hood7A | Hood7A |
| Hood7B | Hood7B |
| Hood8A | Hood8A |
| Hood8B | Hood8B |

**Fridge 1/freezer 1 in C704**

|  |  |
| --- | --- |
| **Fridge 1** | **Code** |
| Fridge 1, tray A | Fr1-A |
| Fridge 1, tray B | Fr1-A |
| Fridge 1, tray C | Fr1-A |
| Fridge 1, D | Fr1-A |
| Fridge 1, E (bottom compartment) | Fr1-A |
| Fridge 1, F (door) | Fr1-F |
| Fridge 1, G (door) | Fr1-F |
| Fridge 1, H (door) | Fr1-F |
| Fridge 1, I (door) | Fr1-F |
| Fridge 1, G (door) | Fr1-F |
| Fridge 1, K (door) | Fr1-F |
| Fridge 1, L (door) | Fr1-F |
| **Freezer 1:** |  |
| Freezer 1, tray A | FZ1-A |
| Freezer 1, tray B | FZ1-B |

**Storage in C708**

|  |  |
| --- | --- |
| **Location**  | **Code** |
| Solvent Purification System | SPS |
| Glovebox 1, double station (on the left from SPS) | GB1 |
| Glovebox 1 freezer | GB1-Fr |
| Glovebox 2, single station (on the right from SPS) | GB2 |
| Glovebox 2 freezer | GB2-Fr |
| Glovebox 3, single station (opposite side to other two) | GB3 |
| Glovebox 3 freezer | GB3-Fr |