

Disposal of chemical waste at FKF.

This guide is formed to clarify: How to deal with chemical residues at FKF.

Chemical waste is considered on the same risk level of chemicals and must be handled with care. Please ask about waste storage and sorting, if you have any doubts at all, as the security of this area is of high priority at the Department.

When producing chemical waste, you must:

- Collect the waste in a suitable container, with a suitable cap.
- Consider what you are mixing.
- Sort according to Fortum's regulations regarding chemicals.
- Label the container according to the current regulations on labelling.

Containers for collecting waste:

For safety reasons, waste must be discarded in approved containers when it leaves the department.



Containers and adhesive labels can be found in the storage room in the basement, where you also find solvents. ([Ø13-604b-0](tel:013-604b-0))

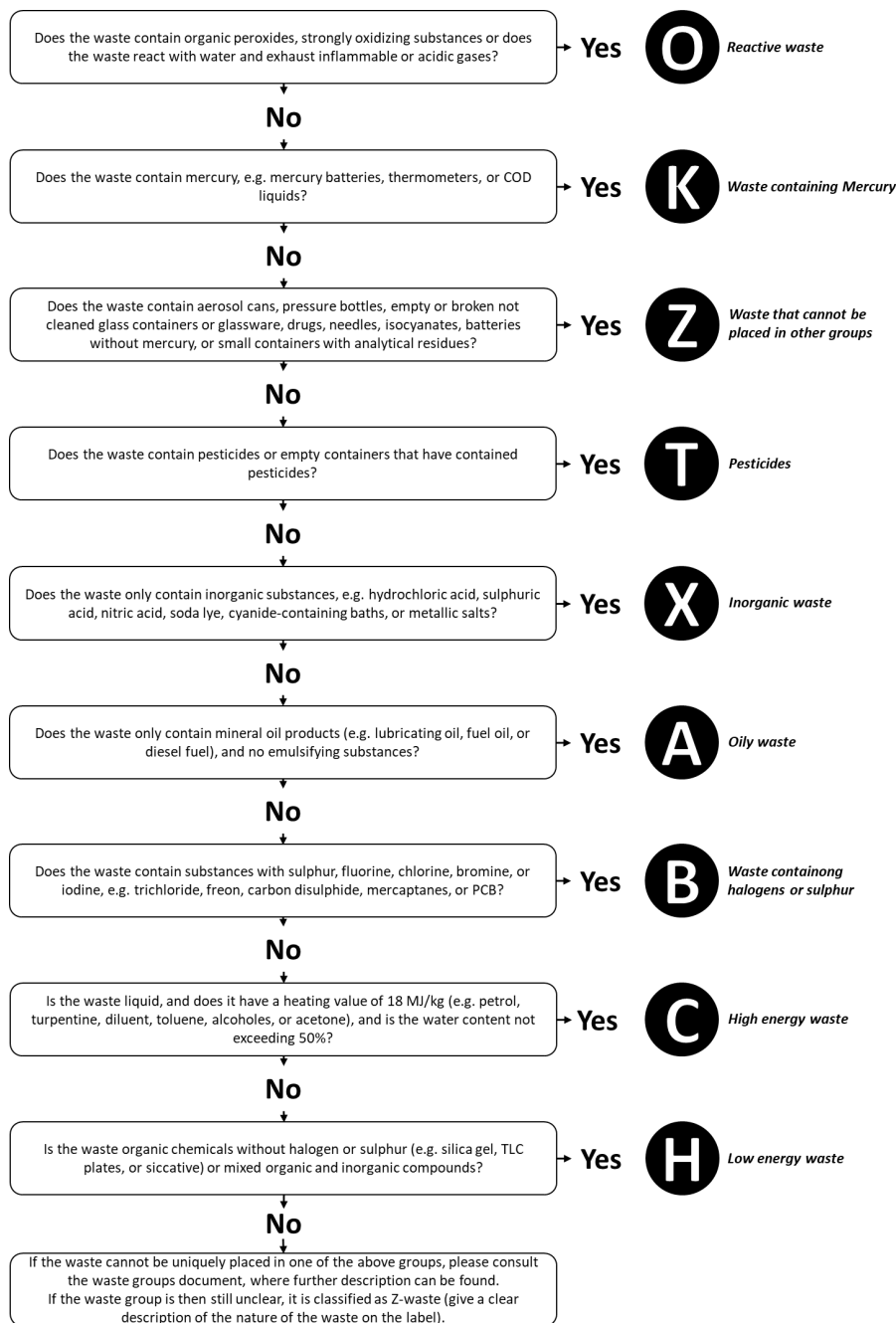
Sorting:

Fortum's website is particularly good for consulting doubts regarding sorting and provides the newest information.

Therefore, attention will be centered on the sorting key, where all the substances are placed in their respective waste groups for the purpose of the disposal method and price, and NOT because they resemble each other. This signifies that there is no guarantee that substances within the same waste group can be mixed.

Pay special attention to *group O*, where organic peroxides must **not** be mixed with oxidizing substances, and *group X*, where waste containing cyanide must be kept separate from acid.

Sorting key:



Labelling chemical waste:

All chemical waste must be carefully labelled with the chemical waste label seen here. **A waste container in use, must be labeled, to know the content.** Fill out the label with a soft pencil, as marker ink tends to disappear.

Affald til Fortum		Syddansk Universitet										
Affalds-sortering	A	B	C	H	K	O	T	X	Z			
Afkryds i een af Fortums affaldsgrupper												
Affaldets bestanddele:												
Institut: _____										PH-værdi		
Navn: _____										Basisk	Surt	Neutral

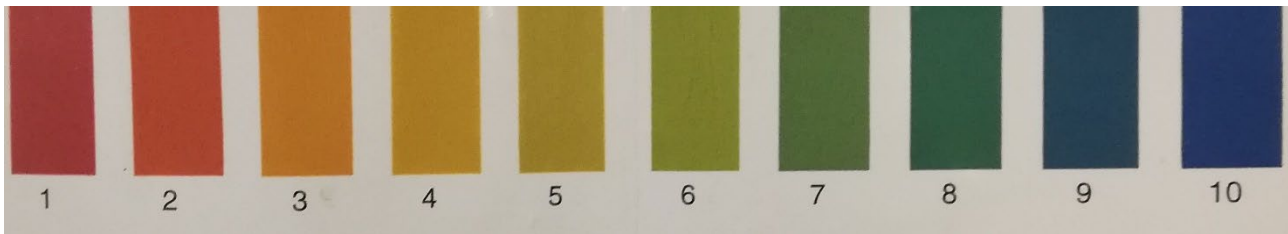
Translation of text is:

Waste for Fortum		SDU										
Waste sorting:	A	B	C	H	K	O	T	X	Z			
Tick of only one of the Fortum waste groups												
Description of waste:												
Department: _____										pH-value		
Name (employee): _____										Alkaline	Acidic	Neutral

Instructions on handling waste in the lab:

- Place your waste in an appropriate container.
- In accordance with the sorting key, tick off waste group.
- List the components (chemicals, solvents, and other materials) of the waste
- Write the name of the department.

- Write your name and your research group.
- Check pH, and tick off according to color scale below. If the waste is organic, make sure to wet the pH-strip with water before measuring. Also make sure to measure in a proper mixed container, in cases of divided layers.



Acidic

Neutral (4-8)

Alkaline

Waste containers must be cleaned on the outside to ensure the safety of the person handling the container. Waste must be stored according to the same rules which apply for chemicals until they are sent off. **Make sure to tighten the lid properly.**

Lab technicians are familiar with the specific waste formulations, which belong to the most common types of waste they have in their laboratories, feel free to ask when in doubt.

Other waste:

Paper can be placed in the regular office trash or recycling bins. You empty your trash yourself as needed in the large rubbish bins, located on the east and west corridors on both floors. Cardboard boxes are placed in the waste room at the entrances to the 500-meter and 600-meter basement corridors.

Empty, evaporated plastic solvent cans are placed in the waste room in the basement as well.

Glass waste: Empty glass packaging, bottles and the like, are cleaned of chemical residues, after which they can be placed in the glass waste containers, which are also placed in 500- and 600m-meter basement corridors. Hazardous chemical residues **MUST** be destroyed in a safe manner by the user immediately before placing the

empty packaging in the glass waste containers. Glass and bottles with toxic chemical residues (e.g. Br) are collected with laboratory waste and sent to FORTUM in Nyborg.

Needles, scalpels and other pointed objects are placed in the yellow needle containers.

All other chemical waste is also sent for destruction at FORTUM in Nyborg. The waste is sorted according to FORTUM's alphabet.

In the distillation room in the basement, naturally, all the above rules also apply, it is especially important to fill in notes on the composition of the waste, just as it is the individual's responsibility to remove empty packaging and other waste. ([Ø13-604b-0](#)).

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