

## **Waste disposal at the University of Freiburg**

**The Environment and Sustainability Department (SUN2) is your contact for:**

- Disposal of hazardous and non-hazardous waste,
  - Environmental protection issues (immission control, soil and water protection),
  - transportation of hazardous goods in connection with waste disposal and internal removals, and
  - laboratory waste water analysis.
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- Among other things, we dispose of
  - Commercial waste,
  - recyclable materials,
  - hazardous waste,
  - batteries and rechargeable batteries,
  - electronic waste,
  - light bulbs,
  - ink cartridges and toner,
  - bulky waste (furniture),
  - Data protection relevant/sensitive documents and data carriers and much more...

**If you have any questions, please contact us:**

Safety, Environment and Sustainability Unit  
Department of Environment and Sustainability (SUN2)

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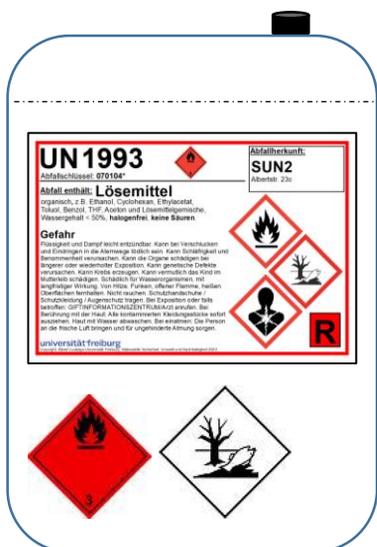
# Disposal of hazardous waste at the University of Freiburg

Regardless of the type of delivery, a few basic things must be observed for all containers:

- All containers must be labeled with an appropriate waste label and with the necessary hazardous goods stickers.
- Containers and refuse sacks must always be tightly closed (sacks with cable ties or wire eyelets, lids of canisters tightly closed).
- All containers must be clean on the outside and must not be under pressure (inflated).
- The containers may be filled to a maximum of 90%.
- Containers with liquid hazardous waste must not contain sediment or solids.
- Flammable solvent waste may only be filled in containers with a nominal volume of up to 5 liters.
- The pH value must always be maintained for all aqueous solutions.
- All containers with oil waste and emulsions must not contain PCP or PCB as part of routine disposal.

The following also applies to containers that are transported in accordance with hazardous goods legislation:

- All containers are marked with an embossed stamp indicating the date of manufacture. The maximum permitted period of use for the transportation of hazardous goods is five years. Please do not provide any containers for collection that are older than five years.
- The registration must be made with the corresponding consignment bill by 11 a.m. on Monday at the latest.
- Only provide the registered containers and no additional ones.
- There must be an orderly handover on collection.
- All persons involved in transportation must be instructed beforehand.



Max 90% full, outgassed and clean on the outside

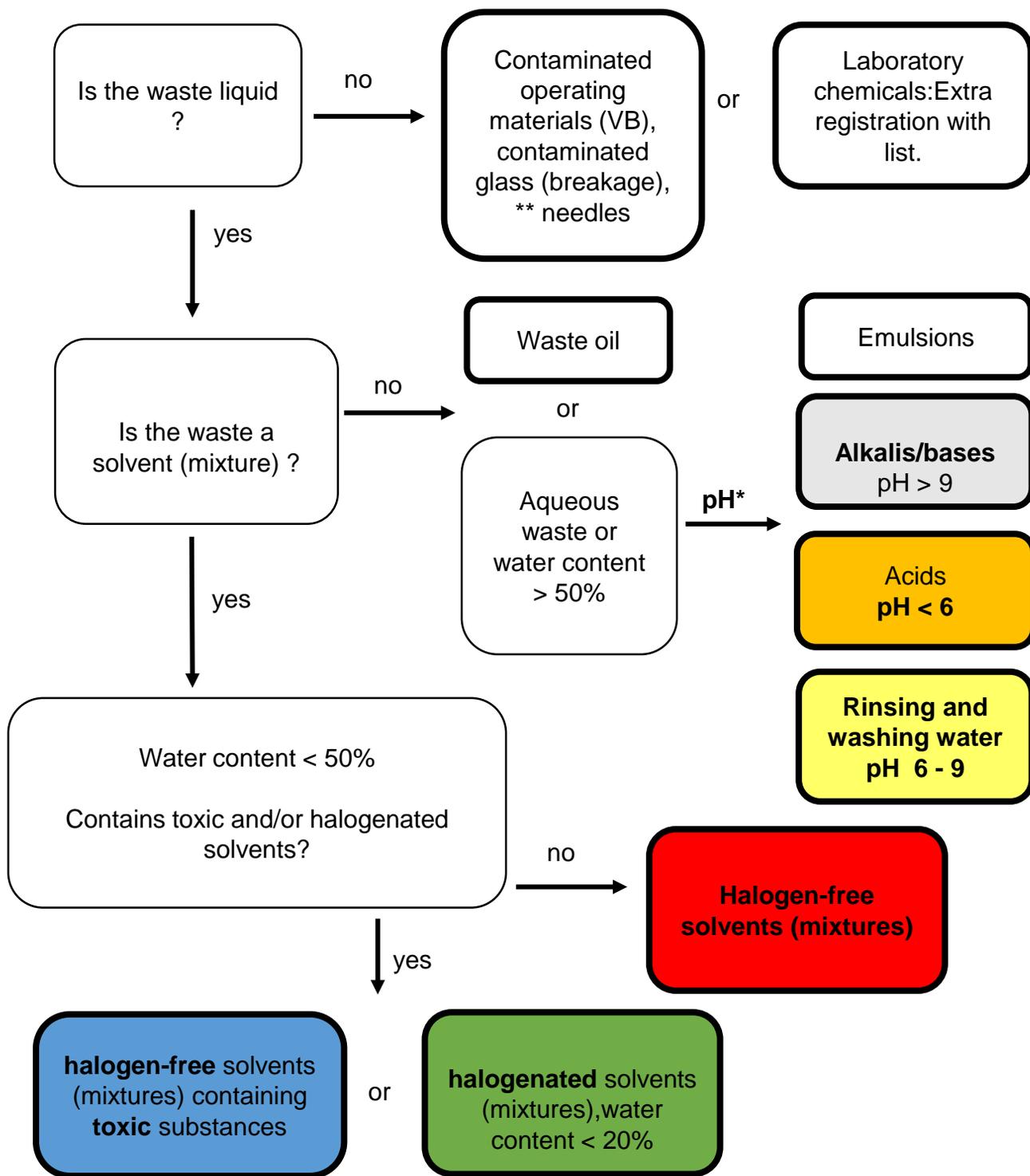
Waste label with details of the waste origin

Dangerous goods labels must be affixed as specified on the label (also for transportation on foot) with an edge length of 10x10cm. "Fish/tree sticker" must be affixed to all containers > 5L. Stickers can be affixed to the side or back.

The table is only intended to provide assistance with a few examples. In principle, **no concentrates** may be disposed of in the canisters (dilution). **No strong oxidizing or reducing agents** may be disposed of (prior conversion to less reactive compounds).

	<b>Types of waste</b>	<b>What can go in</b>	<b>What is not allowed in</b>
	<b>Acids</b>	Inorganic and organic acids, corrosive substances pH < 6 with and without toxic components	Concentrates of flammable or oxidizing acids, cyanides
	<b>Alkalis/bases</b>	Corrosive substances pH > 9 with and without toxic components	Concentrates of flammable or oxidizing alkalis. If possible, dispose of amines separately.
	<b>Rinsing and washing water</b>	Toxic aqueous solutions pH 6 - 9 e.g. heavy metal solutions, aqueous solutions with azides	Flammable solvents, cyanides
	<b>Solvent halogen-free, non-toxic</b>	Flammable solvents such as ethanol, acetone, isopropanol, cyclohexane, ethyl acetate, xylene, pentane, THF, etc.	No toxic or halogenated components No acids
	<b>Solvent, toxic, halogen-free</b>	Flammable toxic solvents or solvent (mixtures) with toxic components, e.g. methanol	No acids No halogenated components
	<b>Halogenated solvents</b>	Halogenated solvents or solvent (mixtures) with halogenated components, e.g. chloroform, dichloromethane	No acids

**Help with the classification of hazardous waste**



Further information on waste:

\*pH values must be checked and adjusted.

In the case of special hazards (e.g. concentrated hydrofluoric acid), please point this out separately.

\*\* Needles and scalpels must be placed in puncture-proof packaging. This scheme is only an aid and does not cover all possible waste.

If you have any questions, please contact your in-house waste manager or the SUN2 team.