



## Organic Solvent Waste Disposal

### Purpose

This procedure ensures that organic solvent waste is disposed of safely and appropriately, in accordance with all applicable legislation.

### Scope

This procedure applies to organic solvents that are flammable and toxic. It specifies their safe handling and disposal through the Environmental Services Facility (ESF).

This type of solvent waste includes:

- Non-halogenated solvents (alcohols, aldehydes, ketones, etc.)
- Halogenated solvents (certain organic compounds containing halogens)

Organic solvent waste must NOT be contaminated with: **excess water, acid, bases, glass vials, grit, inorganic chemicals, magnetic stir bars, mercury, oil, paper, plastic, sand, sharps (needles), sludge, spatulas**, etc.

### Background

Organic solvents may be classified as class 3 (flammable liquids) and/or class 6.1 (toxic substances) as defined by the current Transportation of Dangerous Goods (TDG) Regulations and the BC Hazardous Waste Regulation, 2009.

The disposal of organic solvents is prohibited in landfills and in the sanitary or storm sewer, per BC Hazardous Waste Regulations, 2009, Metro Vancouver Sewer Use Bylaw No. 299, 2007, and Metro Vancouver Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 263, 2012.

Waste solvents must be contained and segregated properly for disposal such that they do not pose a safety hazard during transportation or storage.

Halogenated and non-halogenated solvents are treated differently in terms of disposal. Non-halogenated solvents are used as fuel additives in cement kilns (essentially recycled), while halogenated solvents are incinerated and their cost of disposal is 2-3 times higher. Solvent mixtures are considered contaminated even at very low (1,000 ppm) halogen concentrations.

### Procedure

- Use ONLY approved 5L or 20L red Jerry cans for disposal of organic solvent waste.
- Segregate properly – do not mix halogenated and non-halogenated solvents.
- Attach the **Flammable Liquid Disposal Tag (Blue)** shown below.
- If possible, identify/classify all liquid waste components in the containers, including water content (%).
- Affix your waste generator barcode sticker on the tag.
- Ensure all red containers have securely tightened caps. Containers without caps are NOT acceptable and will be refused for pick up.
- Place the red containers in the building's designated area for pick-up by ESF.
- Contact ESF at 604-822-1285 for supplies or if you have any questions.



### Organic Solvents Disposal Tag

## FLAMMABLE LIQUID DISPOSAL TAG

The University of British Columbia, Environmental Services Facility

S071900001

Parcel Identification No:



## FLAMMABLE LIQUID DISPOSAL TAG



S071900001

Parcel Identification No:



**GENERATOR TO COMPLETE THIS SECTION ONLY**

AFFIX IDENTIFICATION BARCODE LABEL HERE

**WASTE CONTENT (Please ✓ and quantify components >10%)**

Do **NOT** include acidic, basic or aqueous solutions, or solids such as sludge, grit, glass, plastic, paper, or inorganic chemicals, etc.

**NON-HALOGENATED**

- |                                                        |                                               |
|--------------------------------------------------------|-----------------------------------------------|
| <input type="checkbox"/> Alcohols _____%               | <input type="checkbox"/> Ketones _____%       |
| <input type="checkbox"/> Aldehydes _____%              | <input type="checkbox"/> Thinners _____%      |
| <input type="checkbox"/> Aliphatics _____%             | <input type="checkbox"/> Oil (non-PCB) _____% |
| <input type="checkbox"/> Aromatics _____%              |                                               |
| <input type="checkbox"/> Amines _____%                 |                                               |
| <input type="checkbox"/> Scintillation Cocktail _____% |                                               |
| <input type="checkbox"/> Esters _____%                 |                                               |
| <input type="checkbox"/> Ethers _____%                 |                                               |

**HALOGENATED**

- |                                             |
|---------------------------------------------|
| <input type="checkbox"/> Carbon Tet. _____% |
| <input type="checkbox"/> Chloroform _____%  |
| <input type="checkbox"/> TCE _____%         |
| <input type="checkbox"/> Freons _____%      |

Other \_\_\_\_\_%

**NOTE: Contents in this container may be recycled or reused.**

Office use only:

**Quantity** \_\_\_\_\_ 5L \_\_\_\_\_ 20L \_\_\_\_\_ 205L



Environmental Services Facility (ESF)  
Phone 604.822.1285