**How to Label Chemical Waste from Laboratories**

**According to the procedures of Recycle Engineering Co., Ltd**

**1. Fill the label with the following details:**

- Full Name

- Laboratory Room Number

- Accumulation Start Date (if any)

- Accumulation End Date (if any)

- Date of Removal

- Contents Composition

- Volume (if known)

- Specific Information: fill in the Physical State of the Content (Solid, Liquid, or Mixed)

**2. Classifying Chemical Waste from Laboratories**

**The submitter must select the label according to the 9 types specified by Recycle Engineering Co., Ltd, which are:**

**1. Hydrocarbon** chemicals which are mainly composed of hydrogen and carbon, which also included chemicals consisting of HC functional groups such as alkane, alkene, alcohol, ketone, ester, engine oil, lubricating oil, organic compound of nitrogen, sulphur, phosphorus and oxygen, aromatic HC such as Benxene and Benzene subgroups such as Xylene, Toluene, etc.

**2. Halogenated Solvent** solvents which contain a halogen such as chlorine, bromine or iodine.

**3. Heavy Metal** chemicals containing heavy metal ions

**4. High Toxic**  chemicals that are highly toxic to health which include cyanide waste, chloroform, carbon tetrachloride, ethidium bromide, formaldehyde etc.

**5. Inorganic Compound** chemicals that include the sulphate, phosphate, carbonate, nitrate, etc.

**6. Acid** chemicals whose pH is lower than 7, both organic and inorganic.

**7. Base** chemicals whose pH is higher than 7, both organic and inorganic.

**8. Oxidizing Agent** chemicals that gains electrons and is reduced in a chemical reaction.

**9. Reducing Agent** chemicals that donates electrons is oxidized in a chemical reaction

**10. Solid Chemical** any chemicals whose physical state are solid

**11. Unknown** are chemicals that do not fit in category 1 to 9, which include chemicals referred to by their trade names or other chemicals whose components are not known.

**12. Contaminated Containers** empty metal drums or containers that have not been rinsed and broken glass from laboratories