



HAZARDOUS WASTE DISPOSAL POLICY

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Hazardous Waste Disposal Policy for Shoolini University

I. Preamble

Shoolini University is committed to United Nations Sustainable Development Goals (SDGs) through its Hazardous Waste Disposal Policy which makes Shoolini University a sustainable and environment friendly green campus. This Policy applies to all the operations and activities of the University including responsible production, consumption and waste management and all its operations and activities undertaken by the university. The University recognizes the importance of meeting legal requirements to manage hazardous waste responsibly.



Shoolini University's hazardous waste disposal policy is in line with United Nation's Sustainable Development Goal no. 12 "***responsible consumption and production***"

II. Policy Goals

- To develop a systematic mechanism to manage hazardous waste as per the local regulations
- To provide training and necessary information to all students and faculty on identification, segregation, disposal and storage of hazardous wastes
- To provide adequate facilities for the segregation and safe storing of the hazardous waste in dedicated, labelled containers before disposal
- Ensuring the timely renewal of the license with the governing body related to the hazardous waste disposal
- Conducting periodic audits and maintaining thorough records related to the hazardous waste
- Promoting "Duty of care" to ensure the safety and well-being of others as well as the environment

III. Applicability

This policy shall apply to all departments/extensions of Shoolini University including students, faculty, employees and public who will be encouraged to take initiatives for fulfilment of the policy objectives.

IV. Categories of Hazardous Waste

Waste that has not been specifically listed can still be characteristically hazardous if it exhibits any one of the following characteristics:

- Ignitability
- Corrosivity
- Reactivity
- Toxicity

Ignitability

- Flammable Liquids – Flashpoint $<140^{\circ}\text{F}$ (e.g., alcohols, acetone, ethyl acetate, mineral spirits, gasoline)
- Oxidizers (e.g., nitrates, perchlorates, bromates, permanganates, peroxides, iodates)
- Organic Peroxides (e.g., benzoyl peroxide, cumene hydroperoxide, methyl ethyl ketone peroxide)

Corrosivity

Aqueous liquids with a $\text{pH} < 2$ or > 12.5 or other liquids capable of corroding steel at a rate of > 6.35 mm (0.250 inches) per year at a test temperature of 55°F .

- Inorganic Acids (e.g., hydrochloric acid, sulfuric acid, nitric acid, perchloric acid, phosphoric acid)
- Organic Acids – (e.g., formic acid, lactic acid)
- Bases – (e.g., hydroxide solutions, amines)

Reactivity

Materials which can react violently or create toxic fumes:

- Sulfides and cyanides
- Peroxide formers (e.g., ethers, potassium amide, sodium amide, vinyl acetate, tetrahydrofuran)
- Water Reactive Materials (e.g., sodium, potassium, lithium, calcium carbide)

- Multi-nitrated Compounds (e.g., picric acid, nitrosoguanidine, trinitroaniline)
- Perchlorate crystal formers (e.g., perchloric acids)
- Compounds that may undergo vigorous polymerization (e.g., acrylic acid, vinyl acetate, methyl acrylate)

Toxicity

A waste which, when using the toxicity characteristic leaching procedure (TCLP), leaches any number of metallic, organic, or pesticide constituents in concentrations greater than specified in the regulation. Examples of these constituents include arsenic, barium, cadmium, chloroform, chromium, m-cresol, mercury, selenium, and silver.

Disposal of hazardous materials into sinks, drains, commodes, or other sewage disposal channels is **strictly prohibited**.

V. Review

This Hazardous Waste Disposal Policy will be communicated to the students and employees via internal communication channels, Radio Shoolini TV and to all the stakeholders on the institutional website. The procedures to be followed shall be displayed at each laboratory producing hazardous waste. The policy, objectives and targets will be reviewed from time to time on regular basis by the Centre of Excellence in Energy Science and Technology which is the coordinating agency for updating and effective implementation through different agencies of the University.