

CRITERIA FOR DESIGNATING PARTICULARLY HAZARDOUS SUBSTANCES

EH&S classifies chemicals in [MyChem](#) based on the fire code, the Globally Harmonized System for Classification and Labeling (GHS), the [National Institute for Occupational Safety and Health's List of Antineoplastic and Other Hazardous Drugs in Healthcare Settings](#), and the [EH&S Reproductive Hazards Guidelines](#).

Criteria	Fire Code Hazard	GHS Hazard (Class, Category, Route)
Carcinogen	N/A	Carcinogenicity, Category 1A or 1B
Reproductive toxin	N/A	Reproductive toxicity, Category 1A or 1B
High acute toxicity	Highly Toxic	Acute toxicity, Category 1, Inhalation/Dermal/Oral Acute toxicity, Category 2, Inhalation/Dermal Respiratory sensitization, Category 1A Specific target organ toxicity - single exposure, Category 1 Skin sensitizer, Category 1A
Reactive	Oxidizer, Class 3 or 4 Water Reactive, Class 3	Oxidizing liquids, Category 1 Oxidizing solids, Category 1 Substances or mixtures, which in contact with water, emit flammable gases, Category 1 or 2
Explosive/unstable	Explosive Division 1.1, 1.2, or 1.3 Flammable Solid Organic Peroxides, Class I or UD Pyrophoric Unstable (Reactive), Class 3 or 4	Explosives, Divisions 1.1, 1.2, or 1.3; or Unstable explosive Organic peroxides, Type A or B Self-heating substances and mixtures, Category 1 Self-reactive substances and mixtures, Types A - F Explosive when dry Explosive with or without air contact In contact with water liberates toxic gas Reacts violently with water