

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 Institutes of Health List of Antineoplastic and Other Hazardous Drug in a Healthcare Setting](#) and the [EH&S Reproductive and Developmental Chemical List](#).

Criteria	Fire Code	GHS (Class, Hazard Category, Route)
Carcinogen	Not tracked	Carcinogenicity, Category 1A or 1B
Reproductive toxin	Not Tracked	Reproductive Toxicity, Category 1A or 1B
High acute toxicity	Highly Toxic Highly Toxic	Acute toxicity, Category 1 or 2, Inhalation or Dermal Acute toxicity, Category 1, Oral Specific Target Organ Toxicity - Single Exposure, Category 1 Skin Sensitizer, Category 1A Respiratory Sensitization, Category 1A
Reactive	Oxidizer, Class 3 or 4 Water Reactive, Class 3	Oxidizing Liquids, Category 1 Oxidizing Solids, Category 1 Substances, which in contact with water, emit flammable gases, Category 1 or 2
Explosive/unstable	Explosive Division 1.1, 1.2, or 1.3 Water Reactive, Class 3 Flammable Solid, Pyrophoric Flammable Solid, Pyrophoric Unstable(Reactive), Class 3 and 4 Organic Peroxides, Class UD or Class I	Explosives, Divisions 1.1, 1.2 or 1.3 Unstable explosive Reacts violently with water In contact with water liberates toxic gas Explosive when dry Explosive with or without air contact Self-reactive substances, Type A-F Self-reactive substances and mixtures, Type A-F Organic Peroxides Type A or B Self-heating substances, Category 1