Control Banded Standard Operating Procedure (SOP) Templates for Particularly Hazardous Substances (PHS)

Division of Safety (DS) has developed SOP templates for PHS using the concept of control banding. "Control Banding" assigns general protection strategies to chemicals with similar hazards that are grouped into "bands". Chemicals that cannot be grouped with other chemicals based on the hazardous characteristics will have chemical specific SOPs. Contact DS (IC Safety Specialist) for assistance in identifying the right SOP template for your chemical.

Please click here For Guidance on how to complete the SOP

SOP templates for Particularly Hazardous Substances (PHS)

Control bands/Pictograms	Hazards	Example	SOP#
	Carcinogen/ reproductive toxin	Boric acid, Cadmium, beryllium and its com- pounds, estrogen, nickel compounds, silica, tamoxifen, formamide, dexamethasone, isoflurane, inorganic salts of arsenic/chromium/nickle/cadmium/lead, etc.	SOP-1
	Acutely toxic	Acetaldehyde, copper cyanide, epinephrine, phenyl thiourea, sodium fluoride	SOP-2
	Chlorinated acutely toxic and carcinogen/ reproductive toxin	Carbon tetrachloride, Dichloromethane, Chloroform 1,1-Dichloroethane, Ethylene dichloride, Vinylidene chloride, *cis and trans*--1,2-Dichloroethene, 1,2-Dichloropropane, Methyl	SOP-3
	Non-chlorinated acutely toxic and carcinogen/ reproductive toxin	chromium, arsenic, sodium azide, sodium cyanide, diazomethane, nickel carbonyl, chloroaniline, vanadium oxide, thallium salts, ethidium bromide, amino pyridine, nickel chloride etc.	SOP-4
	Acutely toxic and Corrosive	Bromine, ammonia, acrolein etc. **HF requires chemical specific SOP**	SOP-5
	Carcinogen/reproductive toxin and flammable	Carbon disulfide, dimethylformamide (DMF), Diethylene glycol dimethyl ether (diglyme), heptane, hexane, toluene, xylene etc.	SOP-6
	Acutely toxic and flammable	Allyl alcohol, bromoacetone etc.,	SOP-7
	Acutely toxic and oxidizer	Nitrogen oxides, chlorine trifluoride, chlorine dioxide, sodium nitrite etc.	SOP-8
	Acutely toxic, corrosive and carcinogen/reproductive toxins	Phenol, arsenic oxide, cobalt chloride, benzyl chloride, etc.	SOP-9

	Acutely toxic, carcinogen/reproductive toxin and flammable	Cyclohexane, benzene, dioxin, thiophenol, benzenethiol, ethoxyethanol (Ethylene glycol ethyl ether) etc.	SOP-10
	Corrosive and flammable PHS	Hydrazine, cyclohexylamine, formaldehyde, acrolein, sodium borohydride, isopropylamine, acrylonitrile, crotonaldehyde, etc.	SOP-11
	Carcinogen/reproductive toxin and corrosive	Hydroxylamine hydrochloride, Imidazole, Chloramphenicol, cobalt chloride, etc.	SOP-12
	Corrosive and flammable carcinogens/ reproductive toxin	Epichlorohydrin, allyl glycidyl ether, etc.	SOP-13
	Corrosive and flammable acute toxin	Allylamide, etc.	SOP-14
	Acutely toxic carcinogen/reproductive toxins, corrosive, and oxidizing	Potassium permanganate, sodium dichromate, chromic acid, etc.	SOP-15
	Carcinogenic/ reproductive toxic, corrosive and oxidizer	Potassium dichromate, ammonium chromate, etc.	SOP-16