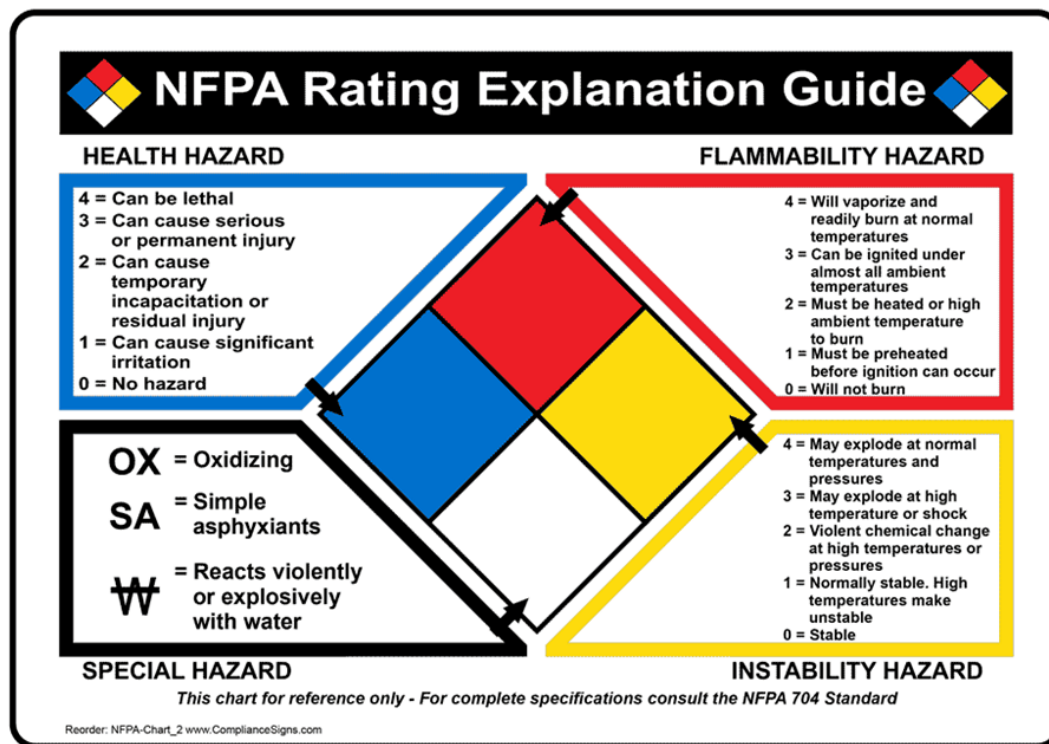


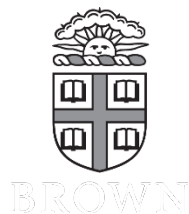


Geo-Chem Maximum Allowable Chemical Quantity per Control Zone

Hazard	Control Zone						
	4A	4B	3A	3B	2A	2B	2C
Class 1A Flammable Liquids (Gal)	15	15	60	60	90	90	90
Class 1A, 1B and 1C Flammable Liquids (Gal)	60	60	240	240	360	360	360
Highly Toxic Liquids (Pounds)	5	5	20	20	30	30	30
Highly Toxic Solids (Pounds)	1.25	1.25	5	5	7.5	7.5	7.5
Toxic Liquids (Pounds)	250	250	1000	1000	1500	1500	1500
Toxic Solids (Pounds)	62.5	62.5	250	250	375	375	375
Corrosive Liquids (Gal)	250	250	1000	1000	1500	1500	1500
Corrosive Solids (Pounds)	625	625	2500	2500	3750	3750	3750

Divide the hazard quantity in a control zone by the number of principle investigators (PI) within that zone. That amount is what each PI is allowed to store in their laboratory. The rest will be stored in an H room. Maximum allowable chemical quantities were established by the National Fire Protection Association (NFPA).





Geo-Chem Maximum Allowable Chemical Quantity per Control Zone

Flammability/Combustible Hazard Rating Flashpoints

Hazard	Rating	Flashpoint
Flammable	4	Below 73F
Flammable	3	Below 100F
Combustible	2	Between 100F and 200F
Combustible	1	Above 200F
	0	Will not Burn

Health Hazard Rating 4/3

Highly Toxic: If it meets one or more of the criteria add Hazard Classification FC – Highly Toxic

- (1) Oral LD50 Rat of 50 mg/kg or less.
- (2) Dermal LD50 Rabbit of 200 mg/kg or less (24 hr).
- (3) Inhalation LC50 Rat of 200 parts per million by volume or less of gas or vapor, or (1 hour).
- (4) Inhalation LC50 Rat of 2 mg/L or less of mist, fume, or dust, (1Hr).

Toxic: If it meets one or more of the criteria add Hazard Classification FC - Toxic

- (1) Oral LD50 Rat of more than 50 mg/kg but not more than 500 mg/kg.
- (2) Dermal LD50 Rabbit of more than 200 mg/kg but not more than 1000 mg/kg (24 hours).
- (3) Inhalation LC50 Rat of more than 200 parts per million but not more than 2000 parts per million by volume of gas or vapor (1 hour).
- (4) Inhalation LC50 Rat of more than 2 mg/L but not more than 20 mg/L, of mist, fume, or dust when administered by continuous inhalation for 1 hour.