

**Attachment 1: Classification and Labeling Requirements for Hazardous Chemicals**

Hazardous chemicals category			Label elements			Notes
Hazards	Hazard Class	Division, Category, or Type	Hazard Pictogram	Signal Words	Hazard Statements	To be handled in accordance with CNS 15030 Classification . (Each hazard to be handled in accordance with CNS 15030-1 to CNS 15030-26) .
Physical Hazards	Explosives	Unstable explosives		Danger	Unstable explosive	
		1.1 Substances or articles that have mass explosion hazard		Danger	Explosive; mass explosion hazard	
		1.2 Substances or articles which have a projection hazard but not a mass explosion hazard		Danger	Explosive; severe projection hazard	

		1.3 Substances or articles which have a fire hazard and either a minor blast hazard or a minor projection hazard but not a mass explosion hazard		Danger	Explosive; Fire, blast or projection hazard	
		1.4 Substances or articles that do not pose a significant hazard		Warning	Fire or projection hazard	
		1.5 Very insensitive substances or articles which have a mass explosion hazard	1.5 (orange background)	Danger	May mass explode in fire	
		1.6 Extremely insensitive substances or articles which do not have a mass explosion hazard	1.6 (orange background)	None	None	
Flammable Gases	Category 1		Danger	Extremely flammable gas		
	Category 2	No symbol	Warning	Flammable gas		

Flammable Aerosols	Category 1		Danger	Extremely flammable aerosol	
	Category 2		Warning	Flammable aerosol	
Oxidizing Gases	Category 1		Danger	May cause or intensify fire; oxidizer	
Gases under pressure	Compressed gas		Warning	Contains gas under pressure; may explode if heated	
	Liquefied gas		Warning	Contains gas under pressure; may explode if heated	
	Refrigerated liquefied gas		Warning	Contains refrigerated gas; may cause cryogenic burns or injury	
	Dissolved gas		Warning	Contains gas under pressure; may explode if heated	

Flammable liquids	Category 1		Danger	Extremely flammable liquid and vapor	
	Category 2		Danger	Highly flammable liquid and vapor	
	Category 3		Warning	Flammable liquid and vapor	
	Category 4	No symbol	Warning	Combustible liquid	
Flammable solids	Category 1		Danger	Flammable solid	
	Category 2		Warning	Flammable solid	
Self-reactive substances and mixtures	Type A		Danger	Heating may cause an explosion	
	Type B	 	Danger	Heating may cause fire or explosion	
	Types C and D		Danger	Heating may cause fire	
	Types E and F		Warning	Heating may cause fire	
	Type G	No symbol	None	None	

Pyrophoric liquids	Category 1		Danger	Catches fire spontaneously if exposed to air	
Pyrophoric solids	Category 1		Danger	Catches fire spontaneously if exposed to air	
Self-heating substances and mixtures	Category 1		Danger	Self-heating ; may catch fire	
	Category 2		Warning	Self-heating in large quantities; may catch fire	
Substances and mixtures which, in contact with water, emit flammable gases	Category 1		Danger	In contact with water releases flammable gases which may ignite spontaneously	
	Category 2		Danger	In contact with water releases flammable gases	
	Category 3		Warning	In contact with water releases flammable gases	

Oxidizing liquids	Category 1		Danger	May cause fire or explosion; strong oxidizer	
	Category 2		Danger	May intensify fire; oxidizer	
	Category 3		Warning	May intensify fire; oxidizer	
Oxidizing solids	Category 1		Danger	May cause fire or explosion; strong oxidizer	
	Category 2		Danger	May intensify fire; oxidizer	
	Class 3		Warning	May intensify fire; oxidizer	
Organic peroxides	Type A		Danger	Heating may cause an explosion	
	Type B		Danger	Heating may cause fire or explosion	

		Types C and D		Danger	Heating may cause fire	
		Types E and F		Warning	Heating may cause fire	
		Type G	No symbol	None	None	
	Corrosive to metals	Category 1		Warning	May be corrosive to metals	
<b>Health Hazards</b>	Acute toxicity: oral	Category 1		Danger	Fatal if swallowed	
		Category 2		Danger	Fatal if swallowed	
		Category 3		Danger	Toxic if swallowed	
		Category 4		Warning	Harmful if swallowed	
		Category 5	No symbol	Warning	May be harmful if swallowed	
	Acute toxicity: skin	Category 1		Danger	Fatal in contact with skin	
		Category 2		Danger	Fatal in contact with skin	
		Category 3		Danger	Toxic in contact with skin	
		Category 4		Warning	Harmful in contact with skin	

		Category 5	No symbol	Warning	May be harmful in contact with skin	
Acute toxicity: inhalation		Category 1		Danger	Fatal if inhaled	
		Category 2		Danger	Fatal if inhaled	
		Category 3		Danger	Toxic if inhaled	
		Category 4		Warning	Harmful if inhaled	
		Category 5	No symbol	Warning	May be harmful if inhaled	
Skin corrosion/irritation	Category 1	Category 1A		Danger	Causes severe skin burns and eye damage	Chemicals may be classified in Category 1 where data are not sufficient for sub-categorization.
		Category 1B				
		Category 1C				
		Category 2		Warning	Causes skin irritation	
	Category 3	No symbol	Warning	Causes mild skin irritation		
Serious eye damage/eye irritation		Category 1		Danger	Causes serious eye damage	

		Category 2A		Warning	Causes serious eye irritation	
		Category 2B	No symbol	Warning	Causes eye irritation	
Respiratory sensitization		Category 1		Danger	May cause allergy or asthma symptoms or breathing difficulties if inhaled	
Skin sensitization		Category 1		Warning	May cause an allergic skin reaction	
Germ cell mutagenicity	Category 1	Category 1A		Danger	May cause genetic defects	Chemicals may be classified in Category 1 where data are not sufficient for sub-categorization.
		Category 1B				
		Category 2		Warning	Suspected of causing genetic defects	
Carcinogenicity	Category 1	Category 1A		Danger	May cause cancer	Chemicals may be

			Category 1B				classified in Category 1 where data are not sufficient for sub-categorization.
		Category 2			Warning	Suspected of causing cancer	
Toxic to reproduction	Category 1	Category 1A	Category 1B		Danger	May damage fertility or the unborn child	Chemicals may be classified in Category 1 where data are not sufficient for sub-categorization.
	Category 2			Warning	Suspected of damaging fertility or the unborn child		
		Additional category for effects on or via lactation		No symbol	None	May cause harm to breast-fed children	
Specific target organ systemic toxicity (single	Category 1			Danger	Causes damage to organs		
	Category 2			Warning	May cause damage to organs		

exposure)	Category 3		Warning	May cause Respiratory irritation or may cause drowsiness or dizziness	
Specific target organ systemic toxicity (repeated exposure)	Category 1		Danger	Causes damage to organs through prolonged or repeated exposure	
	Category 2		Warning	May cause damage to organs through prolonged or repeated exposure	
Aspiration hazard	Category 1		Danger	May be fatal if swallowed and enter airways	
	Category 2		Warning	May be harmful if swallowed and enter airways	