





WHMIS CLASSIFICATION CHECKLIST

Product:

CLASS A — Compressed Gas		
<i>May be located in MSDS section(s): Physical Data, Fire and Explosion Data</i>		
<input type="checkbox"/> Aerosol container — liquid	<input type="checkbox"/> Cylinder — Gas under pressure (> 40 psi)	
CLASS B — Flammable/Combustible Material		
<i>May be located in MSDS section(s): Fire and Explosion Data</i>		
<input type="checkbox"/> Class B1 — Flammable Gases: Compressed gas that forms a flammable mixture with air at a concentration of $\leq 13\%$ or concentration range $\geq 12\%$ <input type="checkbox"/> Class B2 — Flammable Liquids: Flashpoint of $< 37.8^\circ\text{C}$ (100°F) <input type="checkbox"/> Class B3 — Combustible Liquids: Flashpoint of 37.8°C – 93.3°C (100°F – 200°F) <input type="checkbox"/> Class B4 — Flammable Solids: Ignites readily, causes fires through friction/retained heat and burns with self-sustained flame <input type="checkbox"/> Class B5 — Flammable Aerosols: Aerosol container that when tested gives a flame projection at full valve opening or a flashback at any degree of valve opening <input type="checkbox"/> Class B6 — Reactive Flammable Materials: Spontaneously combusts under normal conditions or contact with air/water, or emits flammable gas if in contact with water		
CLASS C — Oxidizing Material		
<i>May be located in MSDS section(s): Reactivity Data</i>		
<input type="checkbox"/> Contributes to the combustion of another material whether or not the product itself is combustible		
<input type="checkbox"/> Organic peroxide that contains the double-bonded oxygen structure		
CLASS D — Poisonous and Infectious Material		
<i>May be located in MSDS section(s): Hazardous Ingredients, Toxicological Properties</i>		
1. Class D1: Materials Causing Immediate and Serious Toxic Effects ($\geq 1\%$) <i>Materials causing acute lethal effects</i>		
Class D1A: Very Toxic Material at $\geq 1\%$		
<input type="checkbox"/> TDG Class 2.3, TDG class 6.1, Packing group I or II		
<input type="checkbox"/> Oral Toxicity: $\text{LD}_{50} \leq 50$ mg/kg	<input type="checkbox"/> Dermal Toxicity: $\text{LD}_{50} \leq 200$ mg/kg	
<input type="checkbox"/> Inhalation Toxicity: (4 hours)	Gas Vapour Dust, mist, fumes	$\text{LC}_{50} \leq 2500$ ppm $\text{LC}_{50} \leq 1500$ ppm $\text{LC}_{50} \leq 500$ mg/m ³
Class D1B: Toxic Material at $\geq 1\%$		
<input type="checkbox"/> TDG class 6.1, Packing group III		
<input type="checkbox"/> Oral Toxicity: $\text{LD}_{50} > 50$ but ≤ 500 mg/kg	<input type="checkbox"/> Dermal Toxicity: $\text{LD}_{50} > 200$ but ≤ 1000 mg/kg	
<input type="checkbox"/> Inhalation Toxicity: (4 hours)	Gas Vapour Dust, mist, fumes	No criterion $\text{LC}_{50} > 1500$ but ≤ 2500 ppm $\text{LC}_{50} > 500$ but ≤ 2500 mg/m ³

Product:

2. Class D2: Materials Causing Other Toxic Effects		
Class D2A: Very Toxic Material at ≥ 0.1%		
<input type="checkbox"/> Carcinogenicity: IARC — group 1, 2A, or 2B ACGIH — group A1, A2, or A3		
<input type="checkbox"/> Reproductive Toxicity — Adverse effect on reproductive capability (male or female)		
<input type="checkbox"/> Teratogenicity — Birth defects in the fetus but not toxic to the pregnant mother		
<input type="checkbox"/> Embryotoxicity — Toxic effects in the fetus but not toxic to the pregnant mother		
<input type="checkbox"/> Mutagenicity — Mutations of the reproductive cells <i>in vivo</i>		
<input type="checkbox"/> Respiratory Sensitization — Allergic reaction in the respiratory tract		
Class D2A: Very Toxic Material at ≥ 1%		
<input type="checkbox"/> Chronic toxic effects in small doses — Threatens life or causes serious impairment of body organs, or cardiovascular or nervous systems		
Class D2B: Toxic Material at ≥ 1%		
<input type="checkbox"/> Chronic toxic effects in larger doses — Threatens life or causes serious impairment of body organs, or cardiovascular or nervous systems		
<input type="checkbox"/> Mutagenicity — Mutations of the non-reproductive cells		
<input type="checkbox"/> Skin Sensitization — Allergic skin reaction		
<input type="checkbox"/> Skin/Eye Irritation — Reversible damage		
3. Class D3: Biohazardous Infectious Material		
<i>May be located in MSDS section(s): Hazardous Ingredients, Toxicological Properties</i>		
<input type="checkbox"/> Organism that has been shown to cause or is reasonably believed to cause disease in persons or animals		
<input type="checkbox"/> Organisms classified into Risk Group 2, 3, and 4 as determined by the World Health Organization (WHO) or the Medical Research Council of Canada (MRCC)		
CLASS E — Corrosive Material at ≥ 1%		
<i>May be located in MSDS section(s): Hazardous Ingredients, Physical Data, Toxicological Properties</i>		
<input type="checkbox"/> pH ≤ 2.0 or pH ≥ 11.5	<input type="checkbox"/> Burns — Causes irreversible damage/necrosis of skin tissue	
<input type="checkbox"/> Corrodes SAE 1020 steel or aluminum type 7075-T6	<input type="checkbox"/> TDG Class 8 (or 2.4 for a gas)	
CLASS F — Dangerously Reactive Material		
<i>May be located in MSDS section(s): Reactivity Data</i>		
<input type="checkbox"/> Vigorous polymerization, decomposition, or condensation		
<input type="checkbox"/> Self-reactive under conditions of shock, increased pressure, or temperature		
<input type="checkbox"/> Reacts vigorously with water to release a toxic gas		

Note: For more information refer to Health Canada’s WHMIS Information Bulletin #8 *Guidelines on the Use of Professional Judgement in the Classification of Controlled Products* and Bulletin #12 *Guidelines for the Disclosure of Toxicological Information on an MSDS*.

Completed by: _____ **Date:** _____