THE DISHARMONIES OF GHS

Revision Date: September 28th, 2015

Color Legend: Consistent | Inconsistency | Non-GHS

US HazCom 2012 Specific Marks: • Category Specific Information * Special Circumstances or Variations

HAZARD CLASS	CONSISTENCY	UN GHS REVISION 5 - COMMENTS	UN GHS REVISION 5	WHMIS 2015	US	JAPAN	CHINA	KOREA	EU	SINGAPORE	BRAZIL	AUSTRALIA	PICTOGRAM	ADDITIONAL PICTOGRAM	ADDITIONAL PICTOGRAM	ADDITIONAL PICTOGRAM
Explosives	Inconsistency		Unstable explosive and Division 1.1 - 1.6	No criteria - Canadian Explosives Act	Unstable explosive and Division 1.1 - 1.6	Unstable explosive and Division 1.1 - 1.6	Unstable explosive and Division 1.1 - 1.6	Unstable explosive and Division 1.1 - 1.6	Unstable explosive and Division 1.1 - 1.6	Unstable explosive and Division 1.1 - 1.6	Unstable explosive and Division 1.1 - 1.6	Unstable explosive and Division 1.1 - 1.6	Exploding Bomb - Unstable and Division 1.1, 1.2, 1.3 and 1.4	None - Division 1.5 and 1.6		
Flammable Gases	Category 1 - 2		Same	Same	Same	Same	Same	Same	Same	Same	Same	Same	Flame - Category 1	None - Category 2		
Chemically Unstable Flammable Gases	Inconsistency	• A - no additional pictogram • A - no additional signal word • A - H230 - May react explosively even in the absence of air • B - no additional pictogram • B - no additional signal word • B - H231 - May react explosively even in the absence of air at elevated pressure and/or temperature	Category A - B	No criteria	No criteria	Category A - B	Category A - B	No criteria	Category A - B	Category A - B	Category A - B	No criteria	***None - only used when applicable with Flammable Gases**			
Flammable Aerosols	Inconsistency	• Category 3 - no pictogram • Category 3 - Warning • Category 3 - H229 - Pressurized container: may burst if heated • Aerosols should NOT be classified as Gases Under Pressure	Category 1 - 3	Category 1 - 2	Category 1 - 2	Category 1 - 3	Category 1 - 3	Category 1 - 2	Category 1 - 3	Category 1 - 3	Category 1 - 3	Category 1 - 2	Flame - Category 1 and 2	None - Category 3		
Oxidizing Gases	Category 1		Same	Same	Same	Same	Same	Same	Same	Same	Same	Same	Flame Over Circle - Category 1			
Gases Under Pressure	4 groups (Compressed gas; Liquefied gas; Refrigerated liquefied gas; Dissolved gas)	• Aerosols should NOT be classified as Gases Under Pressure	Same	Same	Same	Same	Same	Same	Same	Same	Same	Same	Gas Cylinder - all groups			
Flammable Liquids	Inconsistency	• Category 4 - no pictogram • Category 4 - Warning • Category 4 - H227 - Combustible Liquid	Category 1 - 4	Category 1 - 4	Category 1 - 4	Category 1 - 4	Category 1 - 4	Category 1 - 3	Category 1 - 3	Category 1 - 3 (Only Diesel is classified as Category 4)	Category 1 - 4	Category 1 - 4	Flame - Category 1, 2, and 3	None - Category 4		
Flammable Solids	Category 1 - 2		Same	Same	Same	Same	Same	Same	Same	Same	Same	Same	Flame - Category 1 and 2			
Self-Reactive Chemicals	Type A - G		Same	Same	Same	Same	Same	Same	Same	Same	Same	Same	Exploding Bomb - Type A	Exploding Bomb **and** Flame - Type B	Flame - Type C, D, E, F	None - Type G
Pyrophoric Liquids	Category 1		Same	Same	Same	Same	Same	Same	Same	Same	Same	Same	Flame - Category 1			
Pyrophoric Solids	Category 1		Same	Same	Same	Same	Same	Same	Same	Same	Same	Same	Flame - Category 1			
Self-Heating Substances	Category 1 - 2		Same	Same	Same	Same	Same	Same	Same	Same	Same	Same	Flame - Category 1 and 2			
Substances, which in contact with water, emit flammable gases	Category 1 - 3		Same	Same	Same	Same	Same	Same	Same	Same	Same	Same	Flame - Category 1, 2 and 3			
Oxidizing Liquids	Category 1 - 3		Same	Same	Same	Same	Same	Same	Same	Same	Same	Same	Flame Over Circle - Category 1, 2 and 3			
Oxidizing Solids	Category 1 - 3		Same	Same	Same	Same	Same	Same	Same	Same	Same	Same	Flame Over Circle - Category 1, 2 and 3			

THE DISHARMONIES OF GHS

Revision Date: September 28th, 2015

Color Legend: Consistent | Inconsistency | Non-GHS

US HazCom 2012 Specific Marks: • Category Specific Information * Special Circumstances or Variations

HAZARD CLASS	CONSISTENCY	UN GHS REVISION 5 - COMMENTS	UN GHS REVISION 5	WHMIS 2015	US	JAPAN	CHINA	KOREA	EU	SINGAPORE	BRAZIL	AUSTRALIA	PICTOGRAM	ADDITIONAL PICTOGRAM	ADDITIONAL PICTOGRAM	ADDITIONAL PICTOGRAM
Organic Peroxides	Type A - G		Same	Same	Same	Same	Same	Same	Same	Same	Same	Same	Exploding Bomb - Type A	Exploding Bomb **and** Flame - Type B	Flame - Type C, D, E, F	None - Type G
Corrosive to Metals	Category 1		Same	Same	Same	Same	Same	Same	Same	Same	Same	Same	Corrosion - Category 1			
Acute Toxicity - Oral, Dermal, Inhalation	Inconsistency	• Category 5 - no pictogram • Category 5 - Warning • Category 5 - - H303 - May be harmful if swallowed - H313 - May be harmful in contact with skin - H333 - May be harmful if inhaled	Categories 1 - 5	Category 1 - 4	Category 1 - 4	Category 1 - 4	Categories 1 - 5	Category 1 - 4	Category 1 - 4	Category 1 - 4	Categories 1 - 5	Category 1 - 4	Skull and Crossbones - Category 1, 2, and 3	Exclamation Mark - Category 4	None - Category 5	
Skin Corrosion / Irritation	Inconsistency	• Category 3 - no pictogram • Category 3 - Warning • Category 3 - H316 - Causes mild skin irritation	Category 1 (incl. A, B and C) - 3	Category 1 (incl. A, B and C) - 2	Category 1 (incl. A, B and C) - 2	Category 1 (incl. A, B and C) - 2	Category 1 (incl. A, B and C) - 3	Category 1 - 2	Category 1 (incl. A, B and C) - 2	Category 1 (incl. A, B and C) - 2	Category 1 (incl. A, B and C) - 3	Category 1 (incl. A, B and C) - 2	Corrosion - Category 1 (incl. A, B, C)	Exclamation Mark - Category 2	None - Category 3	
Serious Eye Damage / Irritation	Inconsistency	• 2B - no pictogram • 2B - Warning • 2B - Causes eye irritation	Category 1, 2/2A, 2B	Categories 1, 2A and 2B	Categories 1, 2A and 2B	Category 1, 2A, 2B	Category 1, 2A, 2B	Category 1 - 2	Category 1 - 2	Category 1 - 2	Categories 1, 2A and 2B	Categories 1 and 2A	Corrosion - Category 1	Exclamation Mark - Category 2/2A	None - Category 2B	
Respiratory Sensitization	Inconsistency	• 1A - Health Hazard • 1A - Danger • 1A - H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled • 1B - Health Hazard • 1B - Danger • 1B - H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled	Category 1, 1A, 1B	Category 1, 1A, 1B	Category 1, 1A, 1B	Category 1	Category 1, 1A, 1B	Category 1	Category 1, 1A, 1B	Category 1, 1A, 1B	Category 1	Category 1, 1A, 1B	Health Hazard - Category 1, 1A and 1B			
Skin Sensitization	Inconsistency	• 1A - Health Hazard 1A - Warning 1A - H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled • 1B - Health Hazard • 1B - Warning • 1B - H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled	Category 1, 1A, 1B	Category 1, 1A, 1B	Category 1, 1A, 1B	Category 1	Category 1, 1A, 1B	Category 1	Category 1, 1A, 1B	Category 1, 1A, 1B	Category 1	Category 1, 1A, 1B	Exclamation Mark - Category 1, 1A and 1B			
Germ Cell Mutagenicity	Category 1 (both 1A and 1B), 2		Same	Same	Same	Same	Same	Same	Same	Same	Same	Same	Health Hazard - Category 1 (both 1A and 1B) and 2			
Carcinogenicity	Category 1 (both 1A and 1B), 2		Same	Same	Same	Same	Same	Same	Same	Same	Same	Same	Health Hazard - Category 1 (both 1A and 1B) and 2			
Reproductive Toxicity	Category 1 (both 1A and 1B), 2 and lactation		Same	Same	Same	Same	Same	Same	Same	Same	Same	Same	Health Hazard - Category 1 (both 1A and 1B) and 2	None - Lactation Effects		
Specific Target Organ Toxicity - Single Exposure	Category 1 - 3		Same	Same	Same	Same	Same	Same	Same	Same	Same	Same	Health Hazard - Category 1 and 2	Exclamation Mark - Category 3		
Specific Target Organ Toxicity - Repeated Exposure	Category 1 - 2		Same	Same	Same	Same	Same	Same	Same	Same	Same	Same	Health Hazard - Category 1 and 2			

THE DISHARMONIES OF GHS

Revision Date: September 28th, 2015

Color Legend:

Consistent | Inconsistency | Non-GHS

US HazCom 2012 Specific Marks:

• Category Specific Information * Special Circumstances or Variations

HAZARD CLASS	CONSISTENCY	UN GHS REVISION 5 - COMMENTS	UN GHS REVISION 5	WHMIS 2015	US	JAPAN	CHINA	KOREA	EU	SINGAPORE	BRAZIL	AUSTRALIA	PICTOGRAM	ADDITIONAL PICTOGRAM	ADDITIONAL PICTOGRAM	ADDITIONAL PICTOGRAM
Aspiration Hazard	Inconsistency	• Category 2 - Health hazard • Category 2 - Warning • Category 2 - H305 - May be harmful if swallowed and enters airways	Category 1 - 2	Category 1	Category 1	Category 1	Category 1 - 2	Category 1 - 2	Category 1	Category 1	Category 1 - 2	Category 1	Health Hazard - Category 1 and 2			
Aquatic Toxicity - Acute (short-term)	Inconsistency	• Category 2 - no pictogram • Category 2 - no signal word • Category 2 - H401 - Toxic to Aquatic life • Category 3 - no pictogram • Category 3 - no signal word • Category 3 - H402 - Harmful to Aquatic life	Category 1 - 3	Not Applicable	Not Applicable	Category 1 - 3	Category 1 - 3	Category 1	Category 1	Category 1	Category 1 - 3	Not Applicable	Environment - Category 1	None - Category 2 and 3		
Aquatic Toxicity - Chronic (long-term)	Inconsistency	• Category 3 - no pictogram • Category 3 - no signal word • Category 3 - H412 - Harmful to Aquatic life with long lasting effects • Category 4 - no pictogram • Category 4 - no signal word • Category 3 - H413 - May cause long lasting harmful effects to aquatic life	Category 1 - 4	Not Applicable	Not Applicable	Category 1 - 4	Category 1 - 4	Category 1 - 4	Category 1 - 4	Category 1 - 2	Category 1 - 4	Not Applicable	Environment - Category 1 and 2	None - Category 3 and 4		
HAZARDOUS FOR THE OZONE LAYER	Inconsistency	• Category 1 - Warning & exclamation mark • Category 1 - Warning • Category 1 - H420 - Harms public health and the environment by destroying ozone in the upper atmosphere	Category 1	Not Applicable	Not Applicable	Category 1	Category 1	Category 1	Category 1	Category 1	Not Applicable	Not Applicable	Exclamation Mark - Category 1			
Pyrophoric Gases	* OSHA Defined Category - Flame pictogram * OSHA Defined Category - Danger * OSHA Defined Category - Catches fire spontaneously if exposed to air		No Criteria	Category 1	Category 1	No Criteria	No Criteria	No Criteria	No Criteria	No Criteria	No Criteria	No Criteria	* Flame (Hazard Class is for US HazCom 2012 Only)			
Simple Asphyxiants	* OSHA Defined Category - No pictogram * OSHA Defined Category - Warning * OSHA Defined Category - May displace oxygen and cause rapid suffocation		No Criteria	Category 1	Category 1	No Criteria	No Criteria	No Criteria	No Criteria	No Criteria	No Criteria	No Criteria	* None (Hazard Class is for US HazCom 2012 Only)			
Combustible Dusts	* OSHA Defined Category - No pictogram * OSHA Defined Category - Warning * OSHA Defined Category - May form combustible dust concentrations in air		No Criteria	Category 1	Category 1	No Criteria	No Criteria	No Criteria	No Criteria	No Criteria	No Criteria	No Criteria	* None (Hazard Class is for US HazCom 2012 Only)			
Biohazardous Infectious Materials	* *WHMIS Only Category		No Criteria	Category 1	No Criteria	No Criteria	No Criteria	No Criteria	No Criteria	No Criteria	No Criteria	No Criteria	* Biohazardous Infectios Materials			