

GLOBALLY HARMONIZED SYSTEM (GHS) OF CLASSIFICATION AND LABELING OF SUBSTANCES AND MIXTURES

PHYSICAL HAZARDS

OSHA ADOPTED Appendix B

Hazard Class/Category	Pictogram	Signal Word	Hazard Statement
B.1 EXPLOSIVES			
Unstable		DANGER	H200: Unstable explosive
1.1		DANGER	H201: Explosive; mass explosion hazard
1.2		DANGER	H202: Explosive; severe projection hazard
1.3		DANGER	H203: Explosive; fire, blast or projection hazard
1.4		WARNING	H204: Fire or projection hazard
1.5	No Pictogram	DANGER	H205: May mass explode in fire
1.6	No Pictogram	None	None
B.2 FLAMMABLE GASES			
1		DANGER	H220: Extremely flammable gas
2	No Pictogram	WARNING	H221: Flammable gas
B.3 FLAMMABLE AEROSOL			
1		DANGER	H222: Extremely flammable aerosol
2		WARNING	H223: Flammable aerosol
B.4 OXIDIZING GAS			
1		DANGER	H270: May cause or intensify fire; oxidizer
B.5 GASES UNDER PRESSURE			
Compressed gas		WARNING	H280: Contains gas under pressure; may explode if heated
Liquefied gas			
Dissolved gas			
Refrigerated Liquefied gas		WARNING	H281: Contains refrigerated gas; may cause cryogenic burns or injury
B.6 FLAMMABLE LIQUIDS			
1		DANGER	H224: Extremely flammable liquid and vapor
2		DANGER	H225: Highly flammable liquid and vapor
3		WARNING	H226: Flammable liquid and vapor
4	No Pictogram	WARNING	H227: Combustible liquid
B.7 FLAMMABLE SOLIDS			
1		DANGER	H228: Flammable solid
2		WARNING	H228: Flammable solid
B.8 SELF-REACTIVE SUBSTANCES AND MIXTURES			
Type A		DANGER	H240: Heating may cause an explosion
Type B		WARNING	H241: Heating may cause a fire or explosion
Types C & D		DANGER	H242: Heating may cause a fire
Types E & F		WARNING	H242: Heating may cause a fire
Type G	No Pictogram	No Signal Word	No Hazard Statement
B.9 PYROPHORIC LIQUIDS			
1		DANGER	H250: Catches fire spontaneously if exposed to air
B.10 PYROPHORIC SOLIDS			
1		DANGER	H250: Catches fire spontaneously if exposed to air
B.11 SELF-HEATING CHEMICALS			
1		DANGER	H251: Self-heating; may catch fire
2		WARNING	H252: Self-heating in large quantities; may catch fire
B.12 CHEMICALS WHICH, IN CONTACT WITH WATER, EMITS A FLAMMABLE GAS			
1		DANGER	H260: In contact with water releases flammable gases which may ignite spontaneously
2		DANGER	H261: In contact with water releases flammable gas
3		WARNING	H261: In contact with water releases flammable gas
B.13 OXIDIZING LIQUIDS			
1		DANGER	H271: May cause fire or explosion; strong oxidizer
2		DANGER	H272: May intensify fire; oxidizer
3		WARNING	H272: May intensify fire; oxidizer
B.14 OXIDIZING SOLIDS			
1		DANGER	H271: May cause fire or explosion; strong oxidizer
2		DANGER	H272: May intensify fire; oxidizer
3		WARNING	H272: May intensify fire; oxidizer
B.15 ORGANIC PEROXIDES			
Type A		DANGER	H240: Heating may cause an explosion
Type B		DANGER	H240: Heating may cause an explosion
Types C & D		DANGER	H242: Heating may cause a fire
Types E & F		WARNING	H242: Heating may cause a fire
Type G	No Pictogram	No Signal Word	No Hazard Statement
B.16 CORROSIVE TO METALS			
1		WARNING	H290: May be corrosive to metals

HEALTH HAZARDS

OSHA ADOPTED Appendix A

Hazard Class/Category	Pictogram	Signal Word	Hazard Statement
A.1 ACUTE TOXICITY - ORAL (Category 5 not adopted by OSHA)			
1 & 2		DANGER	H300: Fatal if swallowed
3		DANGER	H301: Toxic if swallowed
4		WARNING	H302: Harmful if swallowed
5	No Pictogram	WARNING	H303: May be harmful if swallowed
A.1 ACUTE TOXICITY - DERMAL (Category 5 not adopted by OSHA)			
1 & 2		DANGER	H310: Fatal in contact with skin
3		DANGER	H311: Toxic in contact with skin
4		WARNING	H312: Harmful in contact with skin
5	No Pictogram	WARNING	H313: May be harmful in contact with skin
A.1 ACUTE TOXICITY - INHALATION (Category 5 not adopted by OSHA)			
1 & 2		DANGER	H330: Fatal if inhaled
3		DANGER	H331: Toxic if inhaled
4		WARNING	H332: Harmful if inhaled
5	No Pictogram	WARNING	H333: May be harmful if inhaled
A.2 SKIN CORROSION			
1A, 1B, 1C		DANGER	H314: Causes severe skin burns and eye damage
A.2 SKIN IRRITATION (Category 3 not adopted by OSHA)			
2		WARNING	H315: Causes skin irritation
3	No Pictogram	WARNING	H316: Causes mild skin irritation
A.3 SERIOUS EYE DAMAGE			
1		DANGER	H318: Causes serious eye damage
A.3 EYE IRRITATION			
2A		WARNING	H319: Causes serious eye irritation
2B	No Pictogram	WARNING	H320: Causes eye irritation
A.4 RESPIRATORY SENSITIZATION			
1A & 1B		DANGER	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
A.4 SKIN SENSITIZATION			
1A & 1B		WARNING	H317: May cause an allergic skin reaction
A.5 GERM CELL MUTAGENICITY			
1A & 1B		DANGER	H340: May cause genetic defects (state route of exposure ...)
2		WARNING	H341: Suspected of causing genetic defects (state route of exposure ...)
A.6 CARCINOGENICITY			
1A & 1B		DANGER	H350: May cause cancer (state route of exposure ...)
2		WARNING	H351: Suspected of causing cancer (state route of exposure ...)
A.7 REPRODUCTIVE TOXICITY			
1A & 1B		DANGER	H360: May damage fertility or the unborn child. (state specific effect if known), (state route of exposure ...)
2		WARNING	H361: Suspected of damaging fertility or the unborn child. (state specific effect if known), (state route of exposure ...)
Effects on or via Lactation	No Pictogram	No Signal Word	H362: May cause harm to breast-fed children
A.8 SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE			
1		DANGER	H370: Causes damage to organs (state organs), (state route of exposure)
2		WARNING	H371: May cause damage to organs (state organs), (state route of exposure)
3		WARNING	H335: May cause respiratory irritation, or, H336: May cause drowsiness or dizziness
A.9 SPECIFIC TARGET ORGAN TOXICITY REPEATED OR PROLONGED EXPOSURE			
1		DANGER	H372: Causes damage to organs (state organs), through prolonged or repeated exposure (state route of exposure)
2		WARNING	H373: May cause damage to organs (state organs), through prolonged or repeated exposure (state route of exposure)
A.10 ASPIRATION HAZARD (Category 2 not adopted by OSHA)			
1		DANGER	H304: May be fatal if swallowed and enters airways
2	No Pictogram	WARNING	H305: May be harmful if swallowed and enters airways

OSHA DEFINED/LISTED HAZARDS (Section c)

OSHA ADOPTED Appendix A

ENVIRONMENTAL HAZARDS

NOT ADOPTED BY OSHA

Hazard Class/Category	Pictogram	Signal Word	Hazard Statement
1. AQUATIC TOXICITY - ACUTE			
1		WARNING	H400: Very toxic to aquatic life
2	No Pictogram	None	H401: Toxic to aquatic life
3	No Pictogram	None	H402: Harmful to aquatic life
2. AQUATIC TOXICITY - CHRONIC			
1		WARNING	H410: Very toxic to aquatic life with long lasting effects
2		None	H411: Toxic to aquatic life with long lasting effects
3	No Pictogram	None	H412: Harmful to aquatic life with long lasting effects
4	No Pictogram	None	H413: May cause harmful effects to aquatic life
3. DANGEROUS TO THE OZONE LAYER			
1		WARNING	H420: Harms public health and the environment by destroying ozone in the upper atmosphere

PRIMARY GHS CONTAINER LABEL

Chemical Product Name
(Flammable Liquid Category 1 and Acute Toxic - Oral Category 1)

DANGER

Hazard Statements:
Physical - H224: Extremely flammable liquid and vapor.
Health - H300: Fatal if swallowed.

Precautionary Statements:
Prevention: P264: Wash thoroughly after handling.
P242: Use only non-sparking tools.
P270: Do not eat, drink, or smoke while using this product.
P233: Keep container tightly closed.
P243: Take precautionary measures against static discharge.
Response: P301: If swallowed immediately call a poison center/doctor/chemical manufacturer/importer/ distributor to specify the appropriate source of emergency medical advice.
P302: If on skin take off immediately all contaminated clothing. Rinse skin with water/shower.
P370: In case of fire: Use chemical manufacturer, importer, or distributor to specify appropriate media to extinguish.
P330: Rinse mouth.
Storage: P405: Store locked up.
P403: Store in well ventilated place. Keep cool.
Disposal: P501: Dispose of contents/container in accordance with local laws.

Manufacturer Name and Emergency Contact:
Hanford Chemical Distribution Inc. Hanford WA. Tel.: 509-555-1234

HANFORD HAZARD CONTAINER LABELS

Product Name	Manufacturer	Signal Word	Pictograms	Hazard Statements
		DANGER		H224: Extremely flammable liquid and vapor.
		WARNING		H300: Fatal if swallowed.
		NONE		

GHS PICTOGRAMS



SECTIONS OF GHS SAFETY DATA SHEET

Section	Title	Section	Title
1.	Product Identification	9.	Physical & Chemical Properties
2.	Hazard Identification	10.	Stability and Reactivity
3.	Composition Information	11.	Toxicological Information
4.	First-aid Measures	12.	Ecological Information
5.	Fire Fighting Measures	13.	Disposal Considerations
6.	Accidental Release Measures	14.	Transport Information
7.	Handling and Storage	15.	Regulatory Information
8.	Exposure Controls and Personal Protection	16.	Other Information

NOTES

- The information in this poster is derived from the OSHA 2012 HAZCOM Standard and the United Nations GHS Standard Purple Book.
- Precautionary statements are not listed on this poster.
- The lower the hazard class category number or letter the more severe the hazard.
- *No GHS Hazard Statement number assigned.
- Additional GHS HAZCOM information can be found on the Hanford GHS Web page or from a MSA HAZCOM SME.

GHS STATEMENTS LEGEND

Hazard Class/Category	Signal Word	Precautionary Statement
H2XX	Physical Hazard	P2XX
H3XX	Health Hazard	P3XX
H4XX	Environmental Hazard	P4XX
		P5XX