






















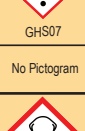





Globally Harmonized System (GHS)

Hazard class	Category	Pictogram	Signal Word	Code	Hazard statements	P-Codes	
Explosives	Unstable Explosive		Danger	H200	Unstable Explosive	P201, P250, P280, P370+P372+P380+P373, P401, P501	
	Div 1.1		Danger	H201	Explosive; mass explosion hazard	P210, P230, P234, P240, P250, P280, P370+P372+P380+P373, P401, P501	
	Div 1.2		Danger	H202	Explosive; severe projection hazard	P210, P230, P234, P240, P250, P280, P370+P372+P380+P373, P401, P501	
	Div 1.3		Danger	H203	Explosive; fire blast, or projection hazard	P210, P230, P234, P240, P250, P280, P370+P372+P380+P373, P401, P501	
	Div 1.4		Warning	H204	Fire or projection hazard	P210, P234, P240, P250, P280, P370+P372+P380+P373, P401, P501	
Div 1.5	No Pictogram	Danger	H205	May mass explode in fire	P210, P230, P234, P240, P250, P280, P370+P372+P380+P373, P401, P501		
Flammable gases	Category 1		Danger	H220	Extremely flammable gas	P210, P377, P381, P403	
	Category 2	No Pictogram	Warning	H221	Flammable gas	P210, P377, P381, P403	
Flammable gases (chemically unstable gases)	A (chemically unstable gases)	No Pictogram	Warning	H230	May react explosively even in the absence of air	P202, P210, P377, P381, P403	
	B (chemically unstable gases)	No Pictogram	Warning	H231	May react explosively even in the absence of air at elevated pressure and/or temperature	P202, P210, P377, P381, P403	
Pyrophoric gas	Category 1		Danger	H232	May ignite spontaneously if exposed to air	P210, P222, P280, P377, P381, P403	
Flammable aerosols	Category 1		Danger	H222 H229	Extremely flammable aerosol Pressurized Container; may burst if heated	P210, P211, P251, P410, P412	
	Category 2		Warning	H223 H229	Flammable aerosol Pressurized Container; may burst if heated	P210, P211, P251, P410, P412	
	Category 3	No Pictogram	Warning	H229	Pressurized Container; may burst if heated	P210, P251, P410, P412	
Flammable liquids	Category 1		Danger	H224	Extremely flammable liquid and vapour	P210, P233, P240, P241, P242, P243, P280, P303, P361, P353, P370, P378, P403, P235, P501	
	Category 2		Danger	H225	Highly flammable liquid and vapour	P210, P233, P240, P241, P242, P243, P280, P303, P361, P353, P370, P378, P403, P235, P501	
	Category 3		Warning	H226	Flammable liquid and vapour	P210, P233, P240, P241, P242, P243, P280, P303, P361, P353, P370, P378, P403, P235, P501	
	Category 4	No Pictogram	Warning	H227	Combustible liquid	P210, P280, P370+P378, P403, P501	
Flammable solids	Category 1		Danger	H228	Flammable solid	P210, P240, P241, P280, P370+P378	
	Category 2		Warning	H228	Flammable solid	P370+P378	
Organic peroxides	Type A		Danger	H240	Heating may cause an explosion	P210, P234, P235, P240, P280, P370 + P372+ P373+P380 P403, P411, P420, P501	
	Type B		Danger	H241	Heating may cause a fire or explosion	P210, P234, P235, P240, P280, P370+P378, P403, P403, P411, P420, P501	
	Type C, D		Danger	H242	Heating may cause a fire	P210, P234, P235, P240, P280, P370+P378, P403, P411, P420, P501	
	Type E, F		Warning	H242	Heating may cause a fire	P210, P234, P235, P240, P280, P370+P378, P403, P411, P420, P501	
Pyrophoric liquids; Pyrophoric solids	Category 1		Danger	H250	Catches fire spontaneously if exposed to air	P210, P222, P231+P232, P233, P280, P302+P334, P370+P378	
	Category 2		Warning	H252	Self-heating in large quantities; may catch fire	P407, P413, P420	
Self-heating substances and mixtures	Category 1		Danger	H251	Self-heating; may catch fire	P235, P280, P407, P413, P420	
	Category 2		Warning	H252	Self-heating in large quantities; may catch fire	P407, P413, P420	
Substances And Mixtures, Which In Contact With Water, Emit Flammable Gases	Category 1		Danger	H260	In contact with water releases flammable gases which may ignite spontaneously	P223, P231+P232, P280, P302+P335+P334, P370+P378, P402+P404, P501	
	Category 2		Danger	H261	In contact with water releases flammable gases	P223, P231+P232, P280, P302+P335+P334, P370+P378, P402+P404, P501	
	Category 3		Warning	H261	In contact with water releases flammable gases	P231, P232, P280, P370+P378, P402+P404, P501	
Oxidising gases	Category 1		Danger	H270	May cause or intensify fire; oxidizer	P220, P244, P370+P376, P403	
	Category 1		Danger	H271	May cause fire or explosion; strong oxidizer	P210, P220, P280, P283, P306+P360, P371+P380+P375, P370+P378, P420, P501	
	Category 2		Danger	H272	May intensify fire; oxidizer	P210, P220, P280, P370+P378, P501	
Oxidising liquids; Oxidising solids	Category 2		Warning	H272	May intensify fire; oxidizer	P370+P378, P501	
	Category 3		Warning	H272	May intensify fire; oxidizer	P370+P378, P501	
Gases under pressure	Compressed gas		Warning	H280	Contains gas under pressure; may explode if heated	P410+P403	
	Liquefied gas		Warning	H281	Contains refrigerated gas; may cause cryogenic burns or injury	P282, P336+P315, P403	
Corrosive to Metals	Category 1		Warning	H290	May be corrosive to metals	P234, P390, P406	
	Category 2		Warning	H290	May be corrosive to metals	P234, P390, P406	
Acute toxicity, oral	Category 1, 2		Danger	H300	Fatal if swallowed	P264, P270, P301+P310, P321, P330, P405, P501	
	Category 3		Danger	H301	Toxic if swallowed	P264, P270, P301+P310, P321, P330, P405, P501	
	Category 4		Warning	H302	Harmful if swallowed	P264, P270, P301+P312, P321, P330, P405, P501	
	Category 5		No Pictogram	Warning	H303	May be harmful if swallowed	P312
	Category 5		No Pictogram	Warning	H303	May be harmful if swallowed	P312
Aspiration hazard	Category 1		Danger	H304	May be fatal if swallowed and enter airway	P301+P310, P331, P405, P501	
	Category 2		Warning	H305	May be harmful if swallowed and enter airway	P301+P310, P331, P405, P501	
Acute toxicity, dermal	Category 1, 2		Danger	H310	Fatal in contact with skin	P262, P264, P270, P280, P302+P352, P310, P321, P361 + P364, P405, P501	
	Category 3		Danger	H311	Toxic in contact with skin	P280, P302+P352, P312, P321, P361 + P364, P405, P501	
	Category 4		Warning	H312	Harmful in contact with skin	P280, P302+P352, P312, P321, P362 + P364, P501	
	Category 5		No Pictogram	Warning	H313	May be harmful in contact with skin	P312

Hazard class	Category	Pictogram	Signal Word	Code	Hazard statements	P-Codes
Skin corrosion/irritation	Category 1A, 1B, 1C		Danger	H314	Causes severe skin burns and eye damage	P260, P264, P280, P301+P330+ P331, P303+P361+P353, P363, P304+P340, P310, P321, P305+ P351+P338, P405, P501
	Category 2		Warning	H315	Causes skin irritation	P264, P280, P302+P352, P321 P332+P313, P362, P364
	Category 3	No Pictogram	Warning	H316	Causes mild skin irritation	P332 P313
Sensitisation, Skin	Category 1, Sub-Category 1A, Sub-Category 1B		Warning	H317	May cause an allergic skin reaction	P261, P272, P280, P302+P352, P333+P313, P321, P362 + P364, P501
	Category 1		Danger	H318	Causes serious eye damage	P280, P305+P351+P338, P310
Serious eye damage/eye irritation	Category 2A		Warning	H319	Causes serious eye irritation	P264, P280 P305+P351+P338 P337+P313
	Category 2B	No Pictogram	Warning	H320	Causes eye irritation	P264, P305+P351+P338 P337+P313
	Category 1, 2		Danger	H330	Fatal if inhaled	P260, P271, P284, P304+P340, P310, P320, P403+P233, P405, P501
Acute toxicity, inhalation	Category 3		Danger	H331	Toxic if inhaled	P261, P271, P304+P340, P311, P321, P403+P233, P405, P501
	Category 4		Warning	H332	Harmful if inhaled	P261, P271, P304+P340, P312
	Category 5	No Pictogram	Warning	H333	May be harmful if inhaled	P304+ P312
Sensitisation, respiratory	Category 1, Sub-Category 1A, Sub-Category 1B		Danger	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled	P261, P284, P304+P340, P342+P311, P501
	Category 3		Warning	H335	May cause respiratory irritation	P261, P271, P304+P340, P312, P403+P233, P405, P501
Specific target organ toxicity, single exposure; Respiratory tract irritation	Category 3		Warning	H336	May cause drowsiness or dizziness	P261, P271, P304+P340, P312, P403+P233, P405, P501
	Category 1		Danger	H340	May cause genetic defects	P201, P202, P280, P308+P313, P405, P501
Germ cell mutagenicity	Category 2		Warning	H341	Suspected of causing genetic defects	P201, P202, P280, P308+P313, P405, P501
	Category 1		Danger	H350	May cause cancer	P201, P202, P280, P308+P313, P405, P501
Carcinogenicity	Category 2		Warning	H351	Suspected of causing cancer	P201, P202, P280, P308+P313, P405, P501
	Category 1		Danger	H350	May cause cancer	P201, P202, P280, P308+P313, P405, P501
Reproductive toxicity	Category 1		Danger	H360	May damage fertility or the unborn child	P201, P202, P280, P308+P313, P405, P501
	Category 2		Warning	H361	Suspected of damaging fertility or the unborn child	P201, P202, P280, P308+P313, P405, P501
Reproductive toxicity, effects on or via lactation	Additional category	No Pictogram	Warning	H362	May cause harm to breast-fed children	P201, P260, P263, P264, P270, P308+P313
	Category 1		Danger	H370	Causes damage to organs	P260, P264, P270, P308+P311, P321, P405, P501
Specific target organ toxicity, single exposure	Category 2		Warning	H371	May cause damage to organs	P260, P264, P270, P308+P311, P405, P501
	Category 1		Danger	H372	Causes damage to organs through prolonged or repeated exposure	P260, P264, P270, P314, P501
Specific target organ toxicity, repeated exposure	Category 2		Warning	H373	May cause damage to organs through prolonged or repeated exposure	P260, P314, P501
	Category 1		Danger	H400	Very toxic to aquatic life	P273, P391, P501
Hazardous to the aquatic environment, short-term (acute)	Category 2	No Pictogram	Warning	H401	Toxic to aquatic life	P273, P501
	Category 3	No Pictogram	Warning	H402	Harmful to aquatic life	P273, P501
	Category 1		Warning	H410	Very toxic to aquatic life with long lasting effects	P273, P391, P501
Hazardous to the aquatic environment, long-term (chronic)	Category 2		Warning	H411	Toxic to aquatic life with long lasting effects	P273, P391, P501
	Category 3	No Pictogram	Warning	H412	Harmful to aquatic life with long lasting effects	P273, P501
	Category 4	No Pictogram	Warning	H413	May cause long lasting harmful effects to aquatic life	P273, P501
Hazardous to the ozone layer	Ozone 1		Warning	H420	Harms public health and the environment by destroying ozone in the upper atmosphere	P502



Globally Harmonized System (GHS) Statements

H-Statements

H-200 Physical Hazards	
H 200	Unstable Explosive
H 201	Explosive; mass explosion hazard
H 202	Explosive; severe projection hazard
H 203	Explosive; fire, blast or projection hazard
H 204	Fire or projection hazard
H 205	May mass explode in fire
H 206	Fire, blast or projection hazard; increased risk of explosion if desensitizing agent is reduced
H 207	Fire or projection hazard; increased risk of explosion if desensitizing agent is reduced
H 208	Fire hazard; increased risk of explosion if desensitizing agent is reduced
H 220	Extremely flammable gas
H 221	Flammable gas
H 222	Extremely flammable aerosol
H 223	Flammable aerosol
H 224	Extremely flammable liquid and vapour
H 225	Highly flammable liquid and vapour
H 226	Flammable liquid and vapour
H 227	Combustible liquid
H 228	Flammable solid
H 229	Pressurized container: may burst if heated
H 230	May react explosively even in the absence of air
H 231	May react explosively even in the absence of air at elevated pressure and/or temperature
H 232	May ignite spontaneously if exposed to air
H 240	Heating may cause explosion
H 241	Heating may cause a fire or explosion
H 242	Heating may cause a fire
H 250	Catches fire spontaneously if exposed to air
H 251	Self-heating; may catch fire
H 252	Self-heating in large quantities; may catch fire
H 260	In contact with water releases flammable gases which may ignite spontaneously
H 261	In contact with water releases flammable gas
H 270	May cause or intensify fire; oxidizer
H 271	May cause fire or explosion; strong oxidizer
H 272	May intensify fire; oxidizer
H 280	Contains gas under pressure; may explode if heated
H 281	Contains refrigerated gas; may cause cryogenic burns or injury
H 290	May be corrosive to metals
H 300 Health Hazards	
H 300	Fatal if swallowed
H 301	Toxic if swallowed
H 302	Harmful if swallowed
H 303	May be harmful if swallowed
H 304	May be fatal if swallowed and enters airways
H 305	May be harmful if swallowed and enters airways
H 310	Fatal in contact with skin
H 311	Toxic in contact with skin
H 312	Harmful in contact with skin
H 313	May be harmful in contact with skin
H 314	Causes severe skin burns and eye damage
H 315	Causes skin irritation
H 316	Causes mild skin irritation
H 317	May cause an allergic reaction
H 318	Causes serious eye damage
H 319	Causes serious eye irritation
H 320	Causes eye irritation
H 330	Fatal if inhaled
H 331	Toxic if inhaled
H 332	Harmful if inhaled
H 333	May be harmful if inhaled
H 334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H 335	May cause respiratory irritation
H 336	May cause drowsiness or dizziness
H 340	May cause genetic defects
H 341	Suspected of causing genetic effects
H 350	May cause cancer
H 351	Suspected of causing cancer
H 360	May damage fertility or the unborn child
H 361	Suspected of damaging fertility or the unborn child
H 362	May cause harm to breast-fed children
H 370	Causes damage to organs
H 371	May cause damage to organs
H 372	Causes damage to organs through prolonged or repeated exposure
H 373	May cause damage to organs through prolonged and repeated exposure
H 400 Environmental Hazards	
H 400	Very toxic to aquatic life
H 401	Toxic to aquatic life
H 402	Harmful to aquatic life
H 410	Very toxic to aquatic life with long lasting effects
H 411	Toxic to aquatic life with long lasting effects
H 412	Harmful to aquatic life with long lasting effects
H 413	May cause long lasting harmful effects to aquatic life
H 420	Harms public health and the environment by destroying ozone in the upper atmosphere
Combination of H-Codes	
H 300+310	Fatal if swallowed or in contact with skin
H 300+330	Fatal if swallowed or if inhaled
H 301+331	Toxic if swallowed or if inhaled
H 301+311	Toxic if swallowed or in contact with skin
H 302+312	Harmful if swallowed or in contact with skin
H 302+332	Harmful if swallowed or if inhaled
H 303+313	May be harmful if swallowed or in contact with skin
H 303+333	May be harmful if swallowed or if inhaled
H 310+330	Fatal in contact with skin or if inhaled
H 311+331	Toxic in contact with skin or if inhaled
H 312+332	Harmful in contact with skin or if inhaled
H 313+333	May be harmful in contact with skin or if inhaled
H 315+320	Causes skin and eye irritation
H 300+310+330	Fatal if swallowed, in contact with skin or if inhaled
H 301+311+331	Toxic if swallowed, in contact with skin or if inhaled
H 302+312+332	Harmful if swallowed, in contact with skin or if inhaled
H 303+313+333	May be harmful if swallowed, in contact with skin or if inhaled

P-Statements

P-100 General	
P 101	If medical advice is needed, have product container or label at hand
P 102	Keep out of reach of children
P 103	Read label before use
P-200 Prevention	
P 201	Obtain special instructions before use
P 202	Do not handle until safety precautions have been read and understood
P 210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P 211	Do not spray on an open flame or other ignition source
P 212	Avoid heating under confinement or reduction of the desensitized agent
P 220	Keep away from clothing and other combustible materials.
P 222	Do not allow contact with air
P 223	Do not allow contact with water.
P 230	Keep wetted with...
P 231	Handle and store contents under inert gas/...
P 232	Protect from moisture
P 233	Keep container tightly closed
P 234	Keep only in original packaging
P 235	Keep cool
P 240	Ground and bond container and receiving equipment
P 241	Use explosion-proof [electrical/ventilating/lighting/...] equipment
P 242	Use non-sparking tools
P 243	Take action to prevent static discharges
P 244	Keep valves and fittings free from oil and grease
P 250	Do not subject to grinding/shock/friction/...
P 251	Do not pierce or burn, even after use
P 260	Do not breathe dust/fume/gas/mist/vapours/spray
P 261	Avoid breathing dust/fume/gas/mist/vapours/spray
P 262	Do not get in eyes, on skin, or on clothing
P 263	Avoid contact during pregnancy and while nursing
P 264	Wash... thoroughly after handling
P 270	Do not eat, drink or smoke when using this product
P 271	Use only outdoors and in a well-ventilated area
P 272	Contaminated work clothing should not be allowed out of the workplace
P 273	Avoid release to the environment
P 280	Wear protective gloves/ protective clothing/eye protection/face protection
P 282	Wear cold insulating gloves and either face shield or eye protection
P 283	Wear fire resistant or flame retardant clothing
P 284	[In case of inadequate ventilation] wear respiratory protection
P 231+232	Handle and store contents under inert gas/...Protect from moisture
P-300 Response	
P 301	IF SWALLOWED:
P 302	IF ON SKIN:
P 303	IF ON SKIN (or hair):
P 304	IF INHALED:
P 305	IF IN EYES:
P 306	IF ON CLOTHING:
P 308	IF exposed or concerned:
P 310	Immediately call a POISON CENTER/doctor/...
P 311	Call a POISON CENTER/doctor/...
P 312	Call a POISON CENTER/doctor/...if you feel unwell
P 313	Get medical advice/attention
P 314	Get medical advice/attention if you feel unwell
P 315	Get immediate medical advice/attention
P 320	Specific treatment is urgent (see...on this label)
P 321	Specific treatment (see...on this label)
P 330	Rinse mouth
P 331	Do NOT induce vomiting
P 332	IF SKIN irritation occurs:
P 333	If skin irritation or rash occurs:
P 334	Immerse in cold water [or wrap in wet bandages]
P 335	Brush off loose particles from skin
P 336	Thaw frosted parts in luke warm water. Do not rub affected area
P 337	If eye irritation persists:
P 338	Remove contact lenses, if present and easy to do. Continue rinsing
P 340	Remove person to fresh air and keep comfortable for breathing
P 342	If experiencing respiratory symptoms:
P 351	Rinse cautiously with water for several minutes
P 352	Wash with plenty of water/...
P 353	Rinse skin with water [or shower]
P 360	Rinse immediately contaminated clothing and skin with plenty of water before removing clothes
P 361	Take off immediately all contaminated clothing
P 362	Take off contaminated clothing
P 363	Wash contaminated clothing before reuse
P 364	And wash it before reuse
P 370	In case of fire:
P 371	In case of major fire in large quantities:
P 372	Explosion risk
P 373	DO NOT fight fire when fire reaches explosives
P 375	Fight fire remotely due to the risk of explosion.
P 376	Stop leak if safe to do so.
P 377	Leaking gas fire: Do not extinguish unless leak can be stopped safely
P 378	Use...to extinction

P 380	Evacuate area
P 381	In case of leakage, eliminate all ignition sources
P 390	Absorb spillage to prevent material damage
P 391	Collect spillage.
P 301+310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P 301+312	IF SWALLOWED: Call a POISON CENTER/doctor/...if you feel unwell
P 301+330+331	IF SWALLOWED: Rinse Mouth. DO NOT induce vomiting
P 302+334	IF ON SKIN: Immerse in cold water [wrap in wet bandages]
P 302+352	IF ON SKIN: Wash with plenty of water/...
P 302+335+334	IF ON SKIN: Brush off loose particles from skin. Immerse in cool water [or wrap in wet bandages].
P 303+361+353	IF ON SKIN (or on hair): Take off immediately all contaminated clothing. Rinse SKIN with water [or shower].
P 304+312	IF INHALED: Call a POISON CENTER/doctor/...if you feel unwell
P 304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing
P 305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P 306+360	IF ON CLOTHING: Rinse Immediately contaminated CLOTHING and SKIN with plenty of water before removing clothing
P 308+311	IF exposed or concerned: Call a POISON CENTER/doctor/...
P 308+313	IF exposed or concerned: Get medical advice/attention.
P 332+313	IF SKIN irritation occurs: Get medical advice/attention.
P 333+313	IF SKIN irritation or rash occurs: Get medical advice/attention.
P 336 + 315	Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice/attention.
P 337+313	If eye irritation persists: Get medical advice/attention.
P 342+311	IF experiencing respiratory symptoms: call POISON CENTER/doctor/...
P 361+364	Take off immediately all contaminated clothing and wash it before reuse.
P 362+364	Take off contaminated clothing and wash it before reuse.
P 370+376	In case of fire. Stop leak if so to do so
P 370+378	In case of fire: Use...to extinguish.
P 370+372+380+373	In case of fire: Explosion risk. Evacuate area. DO NOT fight fire when fire reaches explosives
P 370+380+375	In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion
P 371+380+375	In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion

P-400 Storage	
P 401	Store in accordance with...
P 402	Store in a dry place
P 403	Store in a well-ventilated place
P 404	Store in a closed container
P 405	Store locked up
P 406	Store in corrosive resistant/...container with a resistant inner liner
P 407	Maintain air gap between stacks/pallets
P 410	Protect from sunlight
P 411	Store at temperatures not exceeding ...°C/...°F
P 412	Do not expose to temperatures exceeding 50°C/122°F
P 413	Store bulk masses greater than ...kg/...lbs at temperatures not exceeding ...°C/...°F
P 420	Store separately
P 402+404	Store in a dry place. Store in a closed container
P 403+233	Store in a well ventilated place. Keep container tightly closed
P 403+235	Store in a well ventilated place. Keep cool
P 410+403	Protect from sunlight. Store in a well ventilated place
P 410+412	Protect from sunlight. DO not expose to temperatures exceeding 50°C/122°F

P-500 Disposal	
P 501	Dispose of contents/container to...
P 502	Refer to manufacturer or supplier for information on recovery or recycling

SAFETY/HAZARD PICTOGRAMS AND CODES



Contact Chemscape to learn more about GHS
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