

GHS Classification (Rev.10, 2023) Summary

GHS, the Globally Harmonized System of Classification and Labeling of Chemicals, was developed by the United Nations as a way to bring into agreement the chemical regulations and standards of different countries. GHS includes criteria for the classification of health, physical and environmental hazards, as well as specifying what information should be included on labels of hazardous chemicals as well as safety data sheets. This page summarizes the relationship of GHS hazard statements, pictograms, signal words, hazard classes, categories, and precautionary statements.

References:




1. [UNECE GHS \(Rev.10, 2023\)](#)
2. [UNECE GHS \(Rev.9, 2021\)](#)
3. [UNECE GHS \(Rev.8, 2019\)](#)
4. [UNECE GHS \(Rev.7, 2017\)](#)
5. [UNECE GHS \(Rev.6, 2015\)](#)



Note: This page provides the current GHS summary. Obsolete [(marked as) deleted in [GHS Rev.10 2023 PDF](#) document] H-codes and P-codes are also provided, as they are still in use but annotated as obsolete. For more information, please see the References. This is the [permanent link to the GHS 2023 \(Rev. 10\) summary](#). Please also see the previous [GHS 2021 \(Rev. 9\) summary](#) and [GHS 2019 \(Rev. 8\) summary](#).

Download: [The GHS summary data file \(TSV\)](#).

- [Hazard Class Pictograms](#)
- [GHS Hazard Statements](#)
- [Precautionary Statements](#)

Hazard Class Pictograms



 Exploding Bomb Explosives GHS01	 Flame Flammables GHS02	 Flame Over Circle Oxidizers GHS03
Gas Cylinder Compressed Gases	Corrosion Corrosives	Skull and Crossbones Acute Toxicity

 GHS04	 GHS05	 GHS06
 Exclamation Mark Irritant GHS07	 Health Hazard GHS08	 Environment GHS09

Note: All pictograms are shown in svg format in the page. The corresponding gif images are also available, e.g.

<https://pubchem.ncbi.nlm.nih.gov/images/ghs/GHS08.gif>.

GHS Hazard Statements

H-Code	Hazard Statements	Hazard Class	Category	UN Model Regulations Class or Division	Pictogram	Signal Word	Precautionary: Prevention	Precautionary: Response	Precautionary: Storage	Precautionary: Disposal
H200	(Obsolete) Unstable Explosive	Explosives	Unstable Explosive	-		Danger	P201, P202, P281	P372, P373, P380	P401	P501
H201	(Obsolete) Explosive; mass explosion hazard	Explosives	Div 1.1	-		Danger	P210, P230, P240, P250, P280	P370+P380, P372, P373	P401	P501
H202	(Obsolete) Explosive; severe projection hazard	Explosives	Div 1.2	-		Danger	P210, P230, P240, P250, P280	P370+P380, P372, P373	P401	P501
H203	(Obsolete) Explosive; fire, blast or projection hazard	Explosives	Div 1.3	-		Danger	P210, P230, P240, P250, P280	P370+P380, P372, P373	P401	P501

H-Code	Hazard Statements	Hazard Class	Category	UN Model Regulations Class or Division	Pictogram	Signal Word	Precautionary: Prevention	Precautionary: Response	Precautionary: Storage	Precautionary: Disposal
H204	Fire or projection hazard	Explosives	Category 2B	Div 1.4		Warning	P203, P210, P230, P234, P236, P240, P250, P280	P370+P372+P380+P373	P401	P503
H204	Fire or projection hazard	Explosives	Category 2C	Div 1.4		Warning	P210, P230, P234, P236, P240, P250, P280	P370+P380+P375	P401	P503
H205	(Obsolete) May mass explode in fire	Explosives	Div 1.5	-		Danger	P210, P230, P240, P250, P280	P370+P380, P372, P373	P401	P501
-	(Obsolete)	Explosives	Div 1.6	-	None	-	-	-	-	-
H206	Fire, blast or projection hazard; increased risk of explosion if desensitizing agent is reduced	Desensitized explosives	Category 1	Class 3 or Div 4.1		Danger	P210, P212, P230, P233, P280	P370+P380+P375	P401	P501
H207	Fire or projection hazard; increased risk of explosion if desensitizing agent is reduced	Desensitized explosives	Category 2	Class 3 or Div 4.1		Danger	P210, P212, P230, P233, P280	P370+P380+P375	P401	P501

H-Code	Hazard Statements	Hazard Class	Category	UN Model Regulations Class or Division	Pictogram	Signal Word	Precautionary: Prevention	Precautionary: Response	Precautionary: Storage	Precautionary: Disposal
H207	Fire or projection hazard; increased risk of explosion if desensitizing agent is reduced	Desensitized explosives	Category 3	Class 3 or Div 4.1		Warning	P210, P212, P230, P233, P280	P370+P380+P375	P401	P501
H208	Fire hazard; increased risk of explosion if desensitizing agent is reduced	Desensitized explosives	Category 4	Class 3 or Div 4.1		Warning	P210, P212, P230, P233, P280	P371+P380+P375	P401	P501
H209	Explosive	Explosives	Category 1	-		Danger	P230, P210, P240, P250, P280	P370+P372+P380+P373	P401	P503
H209	Explosive	Explosives	Category 2A	Div 1.1, 1.2, 1.3, 1.4, 1.5, 1.6		Danger	P203, P210, P230, P234, P236, P240, P250, P280	P370+P372+P380+P373	P401	P503
H210	Very sensitive	Explosives	Category 1	-		Danger	P230, P210, P240, P250, P280	P370+P372+P380+P373	P401	P503
H211	Maybe sensitive	Explosives	Category 1	-		Danger	P230, P210, P240, P250, P280	P370+P372+P380+P373	P401	P504
H220	Extremely flammable	Flammable gases	1A: Flammable	Div 2.1		Danger	P203, P210, P222, P280	P377, P381	P403	-

H-Code	Hazard Statements	Hazard Class	Category	UN Model Regulations Class or Division	Pictogram	Signal Word	Precautionary: Prevention	Precautionary: Response	Precautionary: Storage	Precautionary: Disposal
	gas		gas, Pyrophoric gas, Chemically unstable gas A,B							
H221	Flammable gas	Flammable gases	1B	Div 2.1		Danger	P210	P377, P381	P403	-
H221	Flammable gas	Flammable gases	Category 2	-	None	Warning	P210	P377, P381	P403	-
H222	Extremely flammable aerosol	Aerosols	Category 1	Div 2.1		Danger	P210, P211, P251	-	P410+P412	-
H223	Flammable aerosol	Aerosols	Category 2	Div 2.1		Warning	P210, P211, P251	-	P410+P412	-
H224	Extremely flammable liquid and vapor	Flammable liquids	Category 1	Class 3		Danger	P210, P233, P240, P241, P242, P243, P280	P303+P361+P353, P370+P378	P403+P235	P501
H225	Highly flammable liquid and vapor	Flammable liquids	Category 2	Class 3		Danger	P210, P233, P240, P241, P242, P243, P280	P303+P361+P353, P370+P378	P403+P235	P501
H226	Flammable liquid and vapor	Flammable liquids	Category 3	Class 3		Warning	P210, P233, P240, P241, P242, P243, P280	P303+P361+P353, P370+P378	P403+P235	P501

H-Code	Hazard Statements	Hazard Class	Category	UN Model Regulations Class or Division	Pictogram	Signal Word	Precautionary: Prevention	Precautionary: Response	Precautionary: Storage	Precautionary: Disposal
H227	Combustible liquid	Flammable liquids	Category 4	-	None	Warning	P210, P280	P370+P378	P403	P501
H228	Flammable solid	Flammable solids	Category 1	Div 4.1		Danger	P210, P240, P241, P280	P370+P378	-	-
H228	Flammable solid	Flammable solids	Category 2	Div 4.1		Warning	P210, P240, P241, P280	P370+P378	-	-
H229	Pressurized container: may burst if heated	Aerosols	Category 1	Div 2.1		Danger	P210, P211, P251	-	P410+P412	-
H229	Pressurized container: may burst if heated	Aerosols	Category 2	Div 2.1		Warning	P210, P211, P251	-	P410+P412	-
H229	Pressurized container: may burst if heated	Aerosols	Category 3	Div 2.2	None	Warning	P210, P251	-	P410+P412	-
H230	May react explosively even in the absence of air	Flammable gases	1A, Chemically unstable gas A	Div 2.1		Danger	P203, P210	P337, P381	P403	-
H231	May react explosively even in the absence of air at elevated pressure	Flammable gases	1A, Chemically unstable gas B	Div 2.1		Danger	P203, P210	P337, P381	P403	-

H-Code	Hazard Statements	Hazard Class	Category	UN Model Regulations Class or Division	Pictogram	Signal Word	Precautionary: Prevention	Precautionary: Response	Precautionary: Storage	Precautionary: Disposal
	and/or temperature									
H232	May ignite spontaneously if exposed to air	Flammable gases	1A, Pyrophoric gas	Div 2.1		Danger	P210, P222, P280	P377, P381	P403	-
H240	Heating may cause an explosion	Self-reactive substances and mixtures; Organic peroxides	Type A	Div 4.1, 5.2 Type A		Danger	P210, P234, P235, P240, P280	P370+P372+P380+P373	P403, P410, P411, P420	P501
H241	Heating may cause a fire or explosion	Self-reactive substances and mixtures; Organic peroxides	Type B	Div 4.1, 5.2 Type B	 	Danger	P210, P234, P235, P240, P280	P370+P380+P375[+P378]	P403, P410, P411, P420	P501
H242	Heating may cause a fire	Self-reactive substances and mixtures; Organic peroxides	Type C, D	Div 4.1, 5.2 Type C, D		Danger	P210, P234, P235, P240, P280	P370+P378	P403, P410, P411, P420	P501
H242	Heating may cause a fire	Self-reactive substances and mixtures; Organic peroxides	Type E, F	Div 4.1, 5.2 Type E, F		Warning	P210, P234, P235, P240, P280	P370+P378	P403, P410, P411, P420	P501
-	-	Self-reactive substances and mixtures; Organic peroxides	Type G	-	None	-	-	-	-	-

H-Code	Hazard Statements	Hazard Class	Category	UN Model Regulations Class or Division	Pictogram	Signal Word	Precautionary: Prevention	Precautionary: Response	Precautionary: Storage	Precautionary: Disposal
H250	Catches fire spontaneously if exposed to air	Pyrophoric liquids	Category 1	Div 4.2		Danger	P210, P222, P231, P233, P280	P302+P334, P370+P378	-	-
H250	Catches fire spontaneously if exposed to air	Pyrophoric solids	Category 1	Div 4.2		Danger	P210, P222, P231, P233, P280	P302+P335+P334, P370+P378	-	-
H251	Self-heating; may catch fire	Self-heating substances and mixtures	Category 1	Div 4.2		Danger	P235, P280	-	P407, P410, P413, P420	-
H252	Self-heating in large quantities; may catch fire	Self-heating substances and mixtures	Category 2	Div 4.2		Warning	P235, P280	-	P407, P410, P413, P420	-
H260	In contact with water releases flammable gases which may ignite spontaneously	Substances and mixtures which in contact with water, emit flammable gases	Category 1	Div 4.3		Danger	P223, P231+P232, P280	P302+P335+P334, P370+P378	P402+P404	P501
H261	In contact with water releases flammable gas	Substances and mixtures which in contact with water, emit flammable gases	Category 2	Div 4.3		Danger	P223, P231+P232, P280	P302+P335+P334, P370+P378	P402+P404	P501
H261	In contact with water	Substances and mixtures which in	Category 3	Div 4.3		Warning	P231+P232, P280	P370+P378	P402+P404	P501

H-Code	Hazard Statements	Hazard Class	Category	UN Model Regulations Class or Division	Pictogram	Signal Word	Precautionary: Prevention	Precautionary: Response	Precautionary: Storage	Precautionary: Disposal
	releases flammable gas	contact with water, emit flammable gases								
H270	May cause or intensify fire; oxidizer	Oxidizing gases	Category 1	Class 2		Danger	P220, P244	P370+P376	P403	-
H271	May cause fire or explosion; strong Oxidizer	Oxidizing liquids; Oxidizing solids	Category 1	Div 5.1		Danger	P210, P220, P280, P283	P306+P360, P371+P380+P375, P370+P378	P420	P501
H272	May intensify fire; oxidizer	Oxidizing liquids; Oxidizing solids	Category 2	Div 5.1		Danger	P210, P220, P280	P370+P378	-	P501
H272	May intensify fire; oxidizer	Oxidizing liquids; Oxidizing solids	Category 3	Div 5.1		Warning	P210, P220, P280	P370+P378	-	P501
H280	Contains gas under pressure; may explode if heated	Gases under pressure	Compressed gas, Liquefied gas, Dissolved gas	Div 2.2		Warning	-	-	P410+P403	-
H281	Contains refrigerated gas; may cause cryogenic burns or injury	Gases under pressure	Refrigerated liquefied gas	Div 2.2		Warning	P282	P336+P317	P403	-

H-Code	Hazard Statements	Hazard Class	Category	UN Model Regulations Class or Division	Pictogram	Signal Word	Precautionary: Prevention	Precautionary: Response	Precautionary: Storage	Precautionary: Disposal
H282	Extremely flammable chemical under pressure: may explode if heated	Chemicals under pressure	Category 1	Div 2.1	 	Danger	P210, P211	P370+P378, P376, P381	P410+P403	-
H283	Flammable chemical under pressure: may explode if heated	Chemicals under pressure	Category 2	Div 2.1	 	Warning	P210, P211	P370+P378, P376, P381	P410+P403	-
H284	Chemical under pressure: may explode if heated	Chemicals under pressure	Category 3	Div 2.2		Warning	P210	P376	P410+P403	-
H290	May be corrosive to metals	Corrosive to Metals	Category 1	Class 8		Warning	P234	P390	P406	-
H300	Fatal if swallowed	Acute toxicity, oral	Category 1, 2	Div 2.3 or 6.1		Danger	P264, P270	P301+P316, P321, P330	P405	P501
H301	Toxic if swallowed	Acute toxicity, oral	Category 3	Div 2.3 or 6.1		Danger	P264, P270	P301+P316, P321, P330	P405	P501
H302	Harmful if swallowed	Acute toxicity, oral	Category 4	-		Warning	P264, P270	P301+P317, P330	-	P501





H-Code	Hazard Statements	Hazard Class	Category	UN Model Regulations Class or Division	Pictogram	Signal Word	Precautionary: Prevention	Precautionary: Response	Precautionary: Storage	Precautionary: Disposal
H303	May be harmful if swallowed	Acute toxicity, oral	Category 5	-	None	Warning	-	P301+P317	-	-
H304	May be fatal if swallowed and enters airways	Aspiration hazard	Category 1	-		Danger	-	P301+P316, P331	P405	P501
H305	May be harmful if swallowed and enters airways	Aspiration hazard	Category 2	-		Warning	-	P301+P316, P331	P405	P501
H310	Fatal in contact with skin	Acute toxicity, dermal	Category 1, 2	Div 2.3 or 6.1		Danger	P262, P264, P270, P280	P302+P352, P316, P321, P361+P364	P405	P501
H311	Toxic in contact with skin	Acute toxicity, dermal	Category 3	Div 2.3 or 6.1		Danger	P262, P264, P270, P280	P302+P352, P316, P321, P361+P364	P405	P501
H312	Harmful in contact with skin	Acute toxicity, dermal	Category 4	-		Warning	P280	P302+P352, P317, P321, P362+P364	-	P501
H313	May be harmful in contact with skin	Acute toxicity, dermal	Category 5	-	None	Warning	-	P302+P317	-	-
H314	Causes severe skin burns and eye damage	Skin corrosion/irritation	Category 1, 1A, 1B, 1C	Class 8		Danger	P260, P264, P280	P301+P330+P331, P302+P361+P354, P363, P304+P340, P316, P321, P305+P354+P338	P405	P501

H-Code	Hazard Statements	Hazard Class	Category	UN Model Regulations Class or Division	Pictogram	Signal Word	Precautionary: Prevention	Precautionary: Response	Precautionary: Storage	Precautionary: Disposal
H315	Causes skin irritation	Skin corrosion/irritation	Category 2	-		Warning	P264, P280	P302+P352, P321, P332+P317, P362+P364	-	-
H316	Causes mild skin irritation	Skin corrosion/irritation	Category 3	-	None	Warning	-	P332+P317	-	-
H317	May cause an allergic skin reaction	Sensitization, Skin	Category 1, 1A, 1B	-		Warning	P261, P272, P280	P302+P352, P333+P317, P321, P362+P364	-	P501
H318	Causes serious eye damage	Serious eye damage/eye irritation	Category 1	-		Danger	P264+P265, P280	P305+P354+P338, P317	-	-
H319	Causes serious eye irritation	Serious eye damage/eye irritation	Category 2A	-		Warning	P264+P265, P280	P305+P351+P338, P337+P317	-	-
H320	Causes eye irritation	Serious eye damage/eye irritation	Category 2B	-	None	Warning	P264+P265	P305+P351+P338, P337+P317	-	-
H330	Fatal if inhaled	Acute toxicity, inhalation	Category 1, 2	Div 2.3 or 6.1		Danger	P260, P271, P284	P304+P340, P316, P320	P403+P233, P405	P501
H331	Toxic if inhaled	Acute toxicity, inhalation	Category 3	Div 2.3 or 6.1		Danger	P261, P271	P304+P340, P316, P321	P403+P233, P405	P501
H332	Harmful if inhaled	Acute toxicity, inhalation	Category 4	-		Warning	P261, P271	P304+P340, P317	-	-
H333	May be harmful if inhaled	Acute toxicity, inhalation	Category 5	-	None	Warning	-	P304+P317	-	-

H-Code	Hazard Statements	Hazard Class	Category	UN Model Regulations Class or Division	Pictogram	Signal Word	Precautionary: Prevention	Precautionary: Response	Precautionary: Storage	Precautionary: Disposal
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled	Sensitization, respiratory	Category 1, 1A, 1B	-		Danger	P233, P260, P271, P284	P304+P340, P342+P316	P403	P501
H335	May cause respiratory irritation	Specific target organ toxicity, single exposure; Respiratory tract irritation	Category 3	-		Warning	P261, P271	P304+P340, P319	P403+P233, P405	P501
H336	May cause drowsiness or dizziness	Specific target organ toxicity, single exposure; Narcotic effects	Category 3	-		Warning	P261, P271	P304+P340, P319	P403+P233, P405	P501
H340	May cause genetic defects	Germ cell mutagenicity	Category 1, 1A, 1B	-		Danger	P203, P280	P318	P405	P501
H341	Suspected of causing genetic defects	Germ cell mutagenicity	Category 2	-		Warning	P203, P280	P318	P405	P501
H350	May cause cancer	Carcinogenicity	Category 1, 1A, 1B	-		Danger	P203, P280	P318	P405	P501
H350i	May cause cancer by inhalation	Carcinogenicity	Category 1, 1A, 1B	-		Danger	P203, P280	P318	P405	P501

H-Code	Hazard Statements	Hazard Class	Category	UN Model Regulations Class or Division	Pictogram	Signal Word	Precautionary: Prevention	Precautionary: Response	Precautionary: Storage	Precautionary: Disposal
H351	Suspected of causing cancer	Carcinogenicity	Category 2	-		Warning	P203, P280	P318	P405	P501
H360	May damage fertility or the unborn child	Reproductive toxicity	Category 1, 1A, 1B	-		Danger	P203, P280	P318	P405	P501
H360F	May damage fertility	Reproductive toxicity	Category 1, 1A, 1B	-		Danger	P203, P280	P318	P405	P501
H360D	May damage the unborn child	Reproductive toxicity	Category 1, 1A, 1B	-		Danger	P203, P280	P318	P405	P501
H360FD	May damage fertility; May damage the unborn child	Reproductive toxicity	Category 1, 1A, 1B	-		Danger	P203, P280	P318	P405	P501
H360Fd	May damage fertility; Suspected of damaging the unborn child	Reproductive toxicity	Category 1, 1A, 1B	-		Danger	P203, P280	P318	P405	P501
H360Df	May damage the unborn child; Suspected of damaging fertility	Reproductive toxicity	Category 1, 1A, 1B	-		Danger	P203, P280	P318	P405	P501
H361	Suspected of damaging	Reproductive toxicity	Category 2	-		Warning	P203, P280	P318	P405	P501

H-Code	Hazard Statements	Hazard Class	Category	UN Model Regulations Class or Division	Pictogram	Signal Word	Precautionary: Prevention	Precautionary: Response	Precautionary: Storage	Precautionary: Disposal
	fertility or the unborn child									
H361f	Suspected of damaging fertility	Reproductive toxicity	Category 2	-		Warning	P203, P280	P318	P405	P501
H361d	Suspected of damaging the unborn child	Reproductive toxicity	Category 2	-		Warning	P203, P280	P318	P405	P501
H361fd	Suspected of damaging fertility; Suspected of damaging the unborn child	Reproductive toxicity	Category 2	-		Warning	P203, P280	P318	P405	P501
H362	May cause harm to breast-fed children	Reproductive toxicity, effects on or via lactation	Additional category	-	None	-	P203, P260, P263, P264, P270	P318	-	-
H370	Causes damage to organs	Specific target organ toxicity, single exposure	Category 1	-		Danger	P260, P264, P270	P308+P316, P321	P405	P501
H371	May cause damage to organs	Specific target organ toxicity, single exposure	Category 2	-		Warning	P260, P264, P270	P308+P316	P405	P501
H372	Causes damage to organs through prolonged or	Specific target organ toxicity, repeated exposure	Category 1	-		Danger	P260, P264, P270	P319	-	P501

H-Code	Hazard Statements	Hazard Class	Category	UN Model Regulations Class or Division	Pictogram	Signal Word	Precautionary: Prevention	Precautionary: Response	Precautionary: Storage	Precautionary: Disposal
	repeated exposure									
H373	May causes damage to organs through prolonged or repeated exposure	Specific target organ toxicity, repeated exposure	Category 2	-		Warning	P260	P319	-	P501
H400	Very toxic to aquatic life	Hazardous to the aquatic environment, acute hazard	Category 1	Class 9		Warning	P273	P391	-	P501
H401	Toxic to aquatic life	Hazardous to the aquatic environment, acute hazard	Category 2	-	None	-	P273	-	-	P501
H402	Harmful to aquatic life	Hazardous to the aquatic environment, acute hazard	Category 3	-	None	-	P273	-	-	P501
H410	Very toxic to aquatic life with long lasting effects	Hazardous to the aquatic environment, long-term hazard	Category 1	Class 9		Warning	P273	P391	-	P501
H411	Toxic to aquatic life with long lasting effects	Hazardous to the aquatic environment, long-term hazard	Category 2	Class 9		-	P273	P391	-	P501

H-Code	Hazard Statements	Hazard Class	Category	UN Model Regulations Class or Division	Pictogram	Signal Word	Precautionary: Prevention	Precautionary: Response	Precautionary: Storage	Precautionary: Disposal
H412	Harmful to aquatic life with long lasting effects	Hazardous to the aquatic environment, long-term hazard	Category 3	-	None	-	P273	-	-	P501
H413	May cause long lasting harmful effects to aquatic life	Hazardous to the aquatic environment, long-term hazard	Category 4	-	None	-	P273	-	-	P501
H420	Harms public health and the environment by destroying ozone in the upper atmosphere	Hazardous to the ozone layer	Category 1	-		Warning	-	-	-	P502
H300+H310	Fatal if swallowed or in contact with skin	Acute toxicity, oral; acute toxicity, dermal	Category 1, 2	-		Danger	-	-	-	-
H300+H330	Fatal if swallowed or if inhaled	Acute toxicity, oral; acute toxicity, inhalation	Category 1, 2	-		Danger	-	-	-	-
H310+H330	Fatal in contact with skin or if inhaled	Acute toxicity, dermal; acute toxicity, inhalation	Category 1, 2	-		Danger	-	-	-	-
H300+H310+H330	Fatal if swallowed, in	Acute toxicity, oral; acute toxicity,	Category 1, 2	-		Danger	-	-	-	-

H-Code	Hazard Statements	Hazard Class	Category	UN Model Regulations Class or Division	Pictogram	Signal Word	Precautionary: Prevention	Precautionary: Response	Precautionary: Storage	Precautionary: Disposal
	contact with skin or if inhaled	dermal; acute toxicity, inhalation								
H301+H311	Toxic if swallowed or in contact with skin	Acute toxicity, oral; acute toxicity, dermal	Category 3	-		Danger				
H301+H331	Toxic if swallowed or if inhaled	Acute toxicity, oral; acute toxicity, inhalation	Category 3	-		Danger				
H311+H331	Toxic in contact with skin or if inhaled.	Acute toxicity, dermal; acute toxicity, inhalation	Category 3	-		Danger				
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled	Acute toxicity, oral; acute toxicity, dermal; acute toxicity, inhalation	Category 3	-		Danger				
H302+H312	Harmful if swallowed or in contact with skin	Acute toxicity, oral; acute toxicity, dermal	Category 4	-		Warning				
H302+H332	Harmful if swallowed or if inhaled	Acute toxicity, oral; acute toxicity, inhalation	Category 4	-		Warning				
H312+H332	Harmful in contact with	Acute toxicity, dermal; acute toxicity, inhalation	Category 4	-		Warning				

H-Code	Hazard Statements	Hazard Class	Category	UN Model Regulations Class or Division	Pictogram	Signal Word	Precautionary: Prevention	Precautionary: Response	Precautionary: Storage	Precautionary: Disposal
	skin or if inhaled									
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled	Acute toxicity, oral; acute toxicity, dermal; acute toxicity, inhalation	Category 4	-		Warning				
H303+H313	May be harmful if swallowed or in contact with skin	Acute toxicity, oral; acute toxicity, dermal	Category 5	-	None	Warning				
H303+H333	May be harmful if swallowed or if inhaled	Acute toxicity, oral; acute toxicity, inhalation	Category 5	-	None	Warning				
H313+H333	May be harmful in contact with skin or if inhaled	Acute toxicity, dermal; acute toxicity, inhalation	Category 5	-	None	Warning				
H303+H313+H333	May be harmful if swallowed, in contact with skin or if inhaled	Acute toxicity, oral; acute toxicity, dermal; acute toxicity, inhalation	Category 5	-	None	Warning				
H315+H320	Cause skin and eye	Skin corrosion/irritation	Category 2, 2B	-		Warning				

H-Code	Hazard Statements	Hazard Class	Category	UN Model Regulations Class or Division	Pictogram	Signal Word	Precautionary: Prevention	Precautionary: Response	Precautionary: Storage	Precautionary: Disposal
	irritation	and serious eye damage/eye irritation								

Precautionary Statements

General Precautionary Statements

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read carefully and follow all instructions.

Prevention Precautionary Statements

P201: (Obsolete) Obtain special instructions before use.

P202: (Obsolete) Do not handle until all safety precautions have been read and understood.

P203: Obtain, read and follow all safety instructions before use.

P210: Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking.

P211: Do not spray on an open flame or other ignition source.

P212: Avoid heating under confinement or reduction of the desensitized agent.

P220: Keep away from clothing and other combustible materials.

P221: (Obsolete) Take any precaution to avoid mixing with combustibles/...

P222: Do not allow contact with air.

P223: Do not allow contact with water.

P230: Keep wetted with ...

P231: Handle and store contents under inert gas/...

P232: Protect from moisture.

P233: Keep container tightly closed.

P234: Keep only in original container.

P235: Keep cool.

P236: Keep only in original packaging; Division .. in the transport configuraion.

- P240:** Ground/bond container and receiving equipment.
- P241:** Use explosion-proof [electrical/ventilating/lighting/...] equipment.
- P242:** Use only non-sparking tools.
- P243:** Take precautionary measures against static discharge.
- P244:** Keep valves and fittings free from oil and grease.
- P250:** Do not subject to grinding/shock/friction/...
- P251:** Do not pierce or burn, even after use.
- P260:** Do not breathe dust/fume/gas/mist/vapors/spray.
- P261:** Avoid breathing dust/fume/gas/mist/vapors/spray.
- P262:** Do not get in eyes, on skin, or on clothing.
- P263:** Avoid contact during pregnancy/while nursing.
- P264:** Wash hands [and ...] thoroughly after handling.
- P265:** Do not touch eyes.
- P270:** Do not eat, drink or smoke when using this product.
- P271:** Use only outdoors or in a well-ventilated area.
- P272:** Contaminated work clothing should not be allowed out of the workplace.
- P273:** Avoid release to the environment.
- P280:** Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...
- P281:** (Obsolete) Use personal protective equipment as required.
- P282:** Wear cold insulating gloves and either face shield or eye protection.
- P283:** Wear fire resistant or flame retardant clothing.
- P284:** [In case of inadequate ventilation] Wear respiratory protection.
- P285:** (Obsolete) In case of inadequate ventilation wear respiratory protection.
- P231+P232:** Handle and store contents under inert gas/... Protect from moisture.
- P264+P265:** Wash hands [and ...] thoroughly after handling. Do not touch eyes.
- P235+P410:** (Obsolete) Keep cool. Protect from sunlight.

Response Precautionary Statements

- P301:** IF SWALLOWED:
- P302:** IF ON SKIN:
- P303:** IF ON SKIN (or hair):
- P304:** IF INHALED:
- P305:** IF IN EYES:
- P306:** IF ON CLOTHING:
- P307:** (Obsolete) IF exposed:

- P308:** IF exposed or concerned:
- P309:** (Obsolete) IF exposed or if you feel unwell
- P310:** (Obsolete) Immediately call a POISON CENTER or doctor/physician.
- P311:** (Obsolete) Call a POISON CENTER or doctor/...
- P312:** (Obsolete) Call a POISON CENTER or doctor/... if you feel unwell.
- P313:** (Obsolete) Get medical advice/attention.
- P314:** (Obsolete) Get medical advice/attention if you feel unwell.
- P315:** (Obsolete) Get immediate medical advice/attention.
- P316:** Get emergency medical help immediately.
- P317:** Get emergency medical help.
- P318:** if exposed or concerned, get medical advice.
- P319:** Get medical help if you feel unwell.
- P320:** Specific treatment is urgent (see ... on this label).
- P321:** Specific treatment (see ... on this label).
- P322:** (Obsolete) Specific measures (see ...on this label).
- P330:** Rinse mouth.
- P331:** Do NOT induce vomiting.
- P332:** IF SKIN irritation occurs:
- P333:** If skin irritation or rash occurs:
- P334:** Immerse in cool water [or wrap in wet bandages].
- P335:** Brush off loose particles from skin.
- P336:** Thaw frosted parts with lukewarm water. Do not rub affected area.
- P337:** If eye irritation persists:
- P338:** Remove contact lenses, if present and easy to do. Continue rinsing.
- P340:** Remove person to fresh air and keep comfortable for breathing.
- P341:** (Obsolete) If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P342:** If experiencing respiratory symptoms:
- P350:** (Obsolete) Gently wash with plenty of soap and water.
- P351:** Rinse cautiously with water for several minutes.
- P352:** Wash with plenty of water/...
- P353:** Rinse skin with water [or shower].
- P354:** Immediately rinse with water for several minutes.
- P360:** Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
- P361:** Take off immediately all contaminated clothing.
- P362:** Take off contaminated clothing.
- P363:** Wash contaminated clothing before reuse.

- P364:** And wash it before reuse.
- P370:** In case of fire:
- P371:** In case of major fire and large quantities:
- P372:** Explosion risk.
- P373:** DO NOT fight fire when fire reaches explosives.
- P374:** (Obsolete) Fight fire with normal precautions from a reasonable distance.
- P375:** Fight fire remotely due to the risk of explosion.
- P376:** Stop leak if safe to do so.
- P377:** Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
- P378:** Use ... to extinguish.
- P380:** Evacuate area.
- P381:** In case of leakage, eliminate all ignition sources.
- P390:** Absorb spillage to prevent material damage.
- P391:** Collect spillage.
- P301+P310:** (Obsolete) IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
- P301+P312:** (Obsolete) IF SWALLOWED: call a POISON CENTER/doctor/... IF you feel unwell.
- P301+P316:** IF SWALLOWED: Get emergency medical help immediately.
- P301+P317:** IF SWALLOWED: Get medical help.
- P301+P330+P331:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P302+P317:** IF ON SKIN: Get medical help.
- P302+P334:** IF ON SKIN: Immerse in cool water or wrap in wet bandages.
- P302+P335+P334:** Brush off loose particles from skin. Immerse in cool water [or wrap in wet bandages].
- P302+P350:** (Obsolete) IF ON SKIN: Gently wash with plenty of soap and water.
- P302+P352:** IF ON SKIN: wash with plenty of water/...
- P302+P361+P354:** IF ON SKIN: Take off Immediately all contaminated clothing. Immediately rinse with water for several minutes.
- P303+P361+P353:** IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
- P304+P312:** (Obsolete) IF INHALED: Call a POISON CENTER/doctor/... if you feel unwell.
- P304+P317:** IF INHALED: Get medical help.
- P304+P340:** IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P304+P341:** (Obsolete) IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
- P305+P354+P338:** IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P306+P360:** IF ON CLOTHING: Rinse Immediately contaminated CLOTHING and SKIN with plenty of water before removing clothes.
- P308+P316:** IF exposed or concerned: Get emergency medical help immediately.
- P307+P311:** (Obsolete) IF exposed: call a POISON CENTER or doctor/physician.
- P308+P311:** (Obsolete) IF exposed or concerned: Call a POISON CENTER/doctor/...

- P308+P313:** (Obsolete) IF exposed or concerned: Get medical advice/attention.
- P309+P311:** (Obsolete) IF exposed or if you feel unwell: call a POISON CENTER or doctor/physician.
- P332+P313:** (Obsolete) IF SKIN irritation occurs: Get medical advice/attention.
- P332+P317:** If skin irritation occurs: Get medical help.
- P333+P317:** If skin irritation or rash occurs: Get medical help.
- P336+P317:** Immediately thaw frosted parts with lukewarm water. Do not rub affected area. Get medical help.
- P337+P317:** If eye irritation persists: Get medical help.
- P342+P316:** If experiencing respiratory symptoms: Get emergence medical help immediately.
- P333+P313:** (Obsolete) IF SKIN irritation or rash occurs: Get medical advice/attention.
- P335+P334:** (Obsolete) Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.
- P337+P313:** (Obsolete) IF eye irritation persists: Get medical advice/attention.
- P342+P311:** (Obsolete) IF experiencing respiratory symptoms: Call a POISON CENTER/doctor/...
- P361+P364:** Take off immediately all contaminated clothing and wash it before reuse.
- P362+P364:** Take off contaminated clothing and wash it before reuse.
- P370+P376:** in case of fire: Stop leak if safe to do so.
- P370+P378:** In case of fire: Use ... to extinguish.
- P370+P380:** (Obsolete) In case of fire: Evacuate area.
- P370+P380+P375:** In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
- P371+P380+P375:** In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
- P370+P372+P380+P373:** In case of fire: Explosion risk. Evacuate area. DO NOT fight fire when fire reaches explosives.
- P370+P380+P375[+P378]:** In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. [Use...to extinguish].]

Storage Precautionary Statements

- P401:** Store in accordance with ...
- P402:** Store in a dry place.
- P403:** Store in a well-ventilated place.
- P404:** Store in a closed container.
- P405:** Store locked up.
- P406:** Store in corrosive resistant/... container with a resistant inner liner.
- P407:** Maintain air gap between stacks or pallets.
- P410:** Protect from sunlight.
- P411:** Store at temperatures not exceeding ... °C/...°F.
- P412:** Do not expose to temperatures exceeding 50 °C/ 122 °F.
- P413:** Store bulk masses greater than ... kg/...lbs at temperatures not exceeding ... °C/...°F.
- P420:** Store separately.

P422: (Obsolete) Store contents under ...

P402+P404: Store in a dry place. Store in a closed container.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P403+P235: Store in a well-ventilated place. Keep cool.

P410+P403: Protect from sunlight. Store in a well-ventilated place.

P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

P411+P235: (Obsolete) Store at temperatures not exceeding ... °C/...°F. Keep cool.

Disposal Precautionary Statements

P501: Dispose of contents/container to ...

P502: Refer to manufacturer or supplier for information on recovery or recycling

P503: Refer to manufacturer/supplier... for information on disposal/recovery/recycling.
