




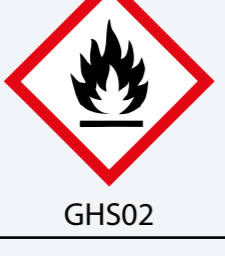

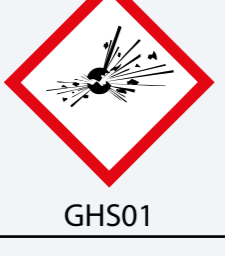
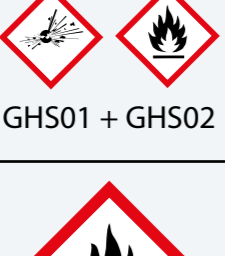
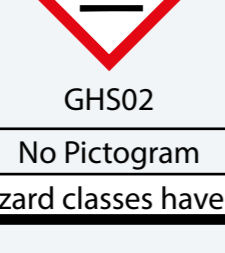









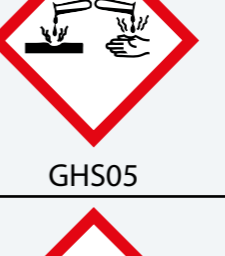
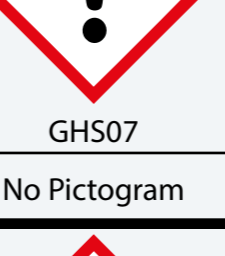
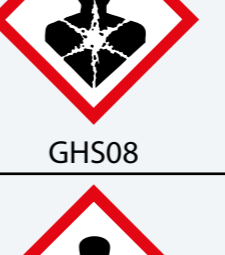
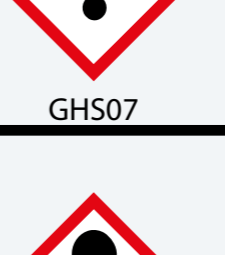



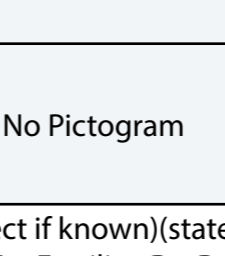


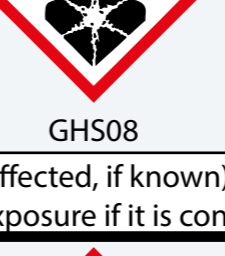


# Work Health and Safety Regulations: Classification and labelling for workplace hazardous chemicals

| Classification   |  | Labelling   |                |                              |   |  |
|--|--|---|----------------|------------------------------|---|--|
| Hazard   |  | Pictogram, code*  | Signal word    | Hazard Statement             |   |  |
| Class  | Category   |   |                | Code*                        | Text  |  |
| Explosives   | Unstable explosive   |    | Danger         | H200                         | Unstable explosive  |  |
|  | Division 1.1   |   |                | H201                         | Explosive; mass explosion hazard  |  |
|  | Division 1.2   |   |                | H202                         | Explosive; severe projection hazard   |  |
|  | Division 1.3   |   |                | H203                         | Explosive; fire, blast or projection hazard   |  |
|  | Division 1.4   | GHS01   | Warning        | H204                         | Fire or projection hazard   |  |
|  | Division 1.5   | No GHS Pictogram <sup>(1)</sup>   | Danger         | H205                         | May mass explode in fire  |  |
|  | Division 1.6   | No GHS Pictogram <sup>(1)</sup>   | No Signal Word | N/A                          | No Hazard Statement   |  |
| (1)=Explosives of Divisions 1.5 and 1.6 need to be labelled with their respective Dangerous Goods class label in accordance with the Australian Explosives Code. |  |   |                |                              |   |  |
| Flammable Gases <sup>(2)</sup>   | Category 1A  |    | Danger         | H220                         | Extremely flammable gas   |  |
|  | Pyrophoric gas   |   |                | H232                         | May ignite spontaneously if exposed to air  |  |
|  | Chemically unstable gas A  |   |                | H230                         | May react explosively even in the absence of air  |  |
|  | Chemically unstable gas B  |   |                | H231                         | May react explosively even in the absence of air at elevated pressure and/or temperature        |  |
|  | Category 1B  |   |                | H221                         | Flammable gas   |  |
| (2)=Pyrophoric and Chemically unstable gases must always be classified as flammable gases category 1A in addition to these hazard categories                     |  |   |                |                              |   |  |
| Aerosols   | Category 1   |    | Danger         | H222                         | Extremely flammable aerosol   |  |
|  | Category 2   |   |                | H229                         | Pressurised container: may burst if heated  |  |
|  |  |   | Category 3     | No Pictogram                 | Warning   | H229   |
| Oxidising Gases  | Category 1   |   | Danger         | H270                         | May cause or intensify fire; oxidiser   |  |
|  | Category 2   |   |                | H271                         | May intensify fire; oxidiser  |  |
| Gases under Pressure <sup>(3)</sup>  | Compressed gas   |  | Warning        | H280                         | Contains gas under pressure; may explode if heated  |  |
|  | Liquefied gas  |   |                | H281                         | Contains refrigerated gas; may cause cryogenic burns or injury.                                 |  |
|  | Dissolved gas  |   |                |                              |   |  |
|  | Refrigerated liquefied gas   |   |                |                              |   |  |
| (3)= The hazard class "Gases under Pressure" is subdivided into "Groups" (not "Categories").   |  |   |                |                              |   |  |
| Flammable Liquids  | Category 1   |  | Danger         | H224                         | Extremely flammable liquid and vapour   |  |
|  | Category 2   |   |                | H225                         | Highly flammable liquid and vapour  |  |
|  | Category 3   |   | GHS02          | Warning                      | H226  | Flammable liquid and vapour  |
|  | Category 4   |   | No Pictogram   | Warning                      | H227  | Combustible liquid   |
| Flammable Solids   | Category 1   |  | Danger         | H228                         | Flammable solid   |  |
|  | Category 2   |   |                | GHS02                        | Warning   | H229   |
| Self-reactive substances and mixtures <sup>(4)</sup>   | Type A   |  | Danger         | H240                         | Heating may cause an explosion  |  |
|  | Type B   |   |                | H241                         | Heating may cause a fire or explosion   |  |
| Organic Peroxides <sup>(4)</sup>   | Type C and D   |  | Warning        | H242                         | Heating may cause a fire  |  |
|  | Type E and F   |   |                | GHS02                        | Warning   | H243   |
|  | Type G   |   | No Pictogram   | No Signal Word               | N/A   | No Hazard Statement  |
|  | (4)= Two separate hazard classes have the same categories (and are therefore grouped). |   |                |                              |   |  |
| Pyrophoric Liquids   | Category 1   |  | Danger         | H250                         | Catches fire spontaneously if exposed to air  |  |
| Pyrophoric Solids  | Category 1   |   |                |                              |   |  |
| Self-heating substances and mixtures   | Category 1   |  | Warning        | H251                         | Self-heating; may catch fire  |  |
|  | Category 2   |   |                | H252                         | Self-heating in large quantities; may catch fire  |  |
| 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                   |  |
|  | Category 2   |   |                | H261                         | In contact with water releases flammable gases  |  |
|  | Category 3   |   |                |                              |   | Warning  |
| Oxidising Liquids <sup>(5)</sup>   | Category 1   |  | Danger         | H271                         | May cause fire or explosion; strong oxidiser  |  |
|  | Category 2   |   |                | H272                         | May intensify fire; oxidiser  |  |
| Oxidising Solids <sup>(5)</sup>  | Category 3   | GHS03   | Warning        | H273                         | May be corrosive to metals  |  |
| (5)= Two separate hazard classes have the same categories (and are therefore grouped).   |  |   |                |                              |   |  |
| Corrosive to metals  | Category 1   |  | Warning        | H290                         | May be corrosive to metals  |  |
|  | Category 2   |   |                | GHS05                        |   |  |
| Desensitised explosives  | Category 1   |  | Danger         | H206                         | Fire, blast or projection hazard; increased risk of explosion if desensitising agent is reduced |  |
|  | Category 2   |   |                | H207                         | Fire or projection hazard; increased risk of explosion if desensitising agent is reduced        |  |
|  | Category 3   |   | H207           | Warning                      | H207  | Fire or projection hazard; increased risk of explosion if desensitising agent is reduced |
|  | Category 4   |   |                |                              | H208  | Fire hazard; increased risk of explosion if desensitising agent is reduced.              |
| Acute Toxicity (Oral, Dermal or Inhalation)  | Category 1   |  | Danger         | H300                         | Fatal if swallowed  |  |
|  | Category 2   |   |                | H310                         | Fatal in contact with skin  |  |
|  | Category 3   |   |                | H330                         | Fatal if inhaled  |  |
|  |  |   |                | H301                         | Toxic if swallowed  |  |
| Category 4   | H311   | Toxic in contact with skin  |                |                              |   |  |
|  | H331   | Toxic if inhaled  |                |                              |   |  |
| Category 4   |     | Warning   | H302           | Harmful if swallowed         |   |  |
|  |  |   | H312           | Harmful in contact with skin |   |  |
| H332 Harmful if inhaled  |  |   |                |                              |   |  |

| Classification  |   | Labelling   |  |  |   |   |  |   |  |
|---|---|---|--|--|---|---|--|---|--|
| Hazard  |   | Pictogram, code*  | Signal word  | Hazard Statement   |   |   |  |   |  |
| Class   | Category  |   |  | Code*  | Text  |   |  |   |  |
| Skin corrosion / irritation   | Category 1A   |    | Danger   | H314   | Causes severe skin burns and eye damage   |   |  |   |  |
|   | Category 1B   |   |  |  |   |   |  |   |  |
|   | Category 1C   |   |  |  |   |   |  |   |  |
| Category 2  |  | Warning   | H315   | Causes skin irritation   |   |   |  |   |  |
|   |   |   |  |  | Category 2  |   |  |   |  |
| Serious eye damage / eye irritation   | Category 1  |    | Danger   | H318   | Causes serious eye damage   |   |  |   |  |
|   | Category 2/2A   |   |  |  |   |    | Warning  | H319  | Causes serious eye irritation  |
|   |   |   |  |  |   |   |  |   |  |
| Respiratory or skin sensitisation   | Respiratory Sensitisers Category 1/1A/1B  |   | Danger   | H334   | May cause allergy or asthma symptoms or breathing difficulties if inhaled   |   |  |   |  |
|   | Skin Sensitisers Category 1/1A/1B   |   |  |  |   |  | Warning  | H317  | May cause an allergic skin reaction  |
| Germ cell mutagenicity  | Category 1A   |  | Danger   | H340   | May cause genetic defects <sup>(6)</sup>  |   |  |   |  |
|   | Category 1B   |   |  |  |   |   |  |   |  |
|   | Category 2  |   |  |  |   | Warning   | H341   | Suspected of causing genetic defects <sup>(6)</sup> |  |
| Carcinogenicity   | Category 1A   |  | Danger   | H350   | May cause cancer <sup>(6)</sup>   |   |  |   |  |
|   | Category 1B   |   |  |  |   |   |  |   |  |
|   | Category 2  |   |  |  |   | Warning   | H351   | Suspected of causing cancer <sup>(6)</sup>          |  |
| (6)= State route of exposure if it is conclusively proven that no other routes of exposure cause the hazard.  |   |   |  |  |   |   |  |   |  |
| Reproductive toxicity   | Category 1A   |  | Danger   | H360 <sup>(7)</sup><br>H360F <sup>(8)</sup><br>H360D <sup>(8)</sup><br>H360FD <sup>(8)</sup> | May damage fertility or the unborn child.<br>May damage fertility.<br>May damage the unborn child<br>May damage fertility. May damage the unborn child. |   |  |   |  |
|   | Category 1B   |   |  |  |   | H360Fd <sup>(8)</sup><br>H360Dfd <sup>(8)</sup>                                       | May damage fertility. Suspected of damaging the unborn child.<br>May damage the unborn child. Suspected of damaging fertility. |   |  |
|   | Category 2  |   |  |  |   |   |  | Warning   | H361 <sup>(7)</sup><br>H361F <sup>(8)</sup><br>H361d <sup>(8)</sup><br>H361fd <sup>(8)</sup> |
|   |   |   |  |  |   | Additional category for effects on or via lactation                                   | No Pictogram   |   |  |
| (7)= (state specific effect if known)(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard). (8) F = Fertility, D= Development (lowercase f, d = suspected effect). |   |   |  |  |   |   |  |   |  |
| Specific target organ toxicity (single exposure)  | Category 1  |  | Danger   | H370   | Causes damage to organs <sup>(9,10)</sup>   |   |  |   |  |
|   | Category 2  |   |  |  |   | Warning   | H371   | May cause damage to organs <sup>(9,10)</sup>        |  |
|   | Category 3  |   |  |  |   |   |  |   |         |
| Category 3  | H336  | May cause drowsiness or dizziness   |  |  |   |   |  |   |  |
|   |   |   | Category 1   |         | Danger  | H372  | Causes damage to organs <sup>(9)</sup> through prolonged or repeated exposure <sup>(10)</sup>                                  |   |  |
| Category 2  | Warning   | H373  | May cause damage to organs <sup>(9)</sup> through prolonged or repeated exposure <sup>(10)</sup> |  |   |   |  |   |  |
| (9)= (state all organs affected, if known). (10)= (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).   |   |   |  |  |   |   |  |   |  |
| Aspiration Hazard   | Category 1  |  | Danger   | H304   | May be fatal if swallowed and enters airways  |   |  |   |  |

\* = The code for the Pictogram and Hazard Statement should not be included on the label.

**Classification** is a process used to determine if a chemical can cause harm to human health or safety. It involves the identification and evaluation of the physical properties of a chemical, along with its health effects. It is the classification of a hazardous chemical that determines what information is communicated on the label and the safety data sheet (SDS).

**The Work Health and Safety (WHS) Regulations** refer to the 7th revised edition of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) for chemical classification and hazard communication.

This poster shows the GHS signal words, pictograms and hazard statements for each GHS hazard class and category covered by the WHS Regulations.

Further information on classification, labelling and SDS requirements under the WHS Regulations is available from the Safe Work Australia Website at [www.safeworkaustralia.gov.au](http://www.safeworkaustralia.gov.au).

Safe Work Australia would like to acknowledge the assistance of the Irish Health and Safety Authority and the German Federal Institute for Occupational Health and Safety, BAuA, who provided the information upon which this poster is based.