

Hazard Statements (H- Statements)⁽¹⁾



GHS01



GHS02



GHS03



GHS04

(1) Are still discussed in the UN, changes may still arise.

H 200 - Series: Physical Hazards

- H200: Unstable explosive
- H201: Explosive; mass explosion hazard
- H202: Explosive; severe projection hazard
- H203: Explosive; fire, blast or projection hazard
- H204: Fire or projection hazard
- H205: May mass explode in fire
- H220: Extremely flammable gas
- H221: Flammable gas
- H222: Extremely flammable material
- H223: Flammable aerosol
- H224: Extremely flammable liquid and vapour
- H225: Highly flammable liquid and vapour
- H226: Flammable liquid and vapour
- H227: Combustible liquid
- H228: Flammable solid
- H229: Pressurised container: May burst if heated
- H230: May react explosively even in the absence of air
- H231: May react explosively even in the absence of air at elevated pressure and/or temperature
- H240: Heating may cause an explosion
- H241: Heating may cause a fire or explosion
- H242: Heating may cause a fire
- H250: Catches fire spontaneously if exposed to air
- H251: Self-heating; may catch fire
- H252: Self-heating in large quantities; may catch fire
- H260: In contact with water releases flammable gases which may ignite spontaneously
- H261: In contact with water releases flammable gas
- H270: May cause or intensify fire; oxidiser
- H271: May cause fire or explosion; strong oxidiser
- H272: May intensify fire; oxidiser
- H280: Contains gas under pressure; may explode if heated
- H281: Contains refrigerated gas; may cause cryogenic burns or injury
- H290: May be corrosive to metals

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GHS05



GHS06



GHS07



GHS08

H300 – Series: Health Hazards

- H300: Fatal if swallowed
- H301: Toxic if swallowed
- H302: Harmful if swallowed
- H304: May be fatal if swallowed and enters airways
- H310: Fatal in contact with skin
- H311: Toxic in contact with skin
- H312: Harmful in contact with skin
- H314: Causes severe skin burns and eye damage
- H315: Causes skin irritation
- H317: May cause an allergic skin reaction
- H318: Causes serious eye damage
- H319: Causes serious eye irritation
- H330: Fatal if inhaled
- H331: Toxic if inhaled
- H332: Harmful if inhaled
- H300 + H310: Fatal if swallowed or in contact with skin
- H300 + H330: Fatal if swallowed or if inhaled
- H310 + H330: Fatal in contact with skin or if inhaled
- H300 + H310 + H330: Fatal if swallowed, in contact with skin or if inhaled
- H301 + H311: Toxic if swallowed or in contact with skin
- H301 + H331: Toxic if swallowed or if inhaled
- H311 + H331: Toxic in contact with skin or if inhaled
- H301 + H311 + H331: Toxic if swallowed, in contact with skin or if inhaled
- H302 + H312: Harmful if swallowed or in contact with skin
- H302 + H332: Harmful if swallowed or if inhaled
- H312 + H332: Harmful in contact with skin or if inhaled
- H302 + H312 + H332: Harmful if swallowed, in contact with skin or if inhaled
- H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H335: May cause respiratory irritation
- H336: May cause drowsiness or dizziness
- H340: May cause genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>
- H341: Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>
- H350: May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>
- H350i: May cause cancer by inhalation
- H351: Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>
- H360: May damage fertility or the unborn child <state specific effect if known> < state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>

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- H360F: May damage fertility
H360D: May damage the unborn child
H360FD: May damage fertility. May damage the unborn child
H360Fd: May damage fertility. Suspected of damaging the unborn child
H360Df: May damage the unborn child. Suspected of damaging fertility
H361: Suspected of damaging fertility or the unborn child *<state specific effect if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>*
H361f: Suspected of damaging fertility
H361d: Suspected of damaging the unborn child
H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child
H362: May cause harm to breastfed children
H370: Causes damage to organs *<or state all organs affected, if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>*
H371: May cause damage to organs *<or state all organs affected, if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>*
H372: Causes damage to organs *<or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>*
H373: May cause damage to organs *<or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>*



GHS09

H400 – Series: Environmental Hazards

- H400: Very toxic to aquatic life
H410: Very toxic to aquatic life with long lasting effects
H411: Toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long lasting effects
H413: May cause long lasting harmful effects to aquatic life
H420: Harms public health and the environment by destroying ozone in the upper atmosphere

Supplemental Hazard Information (EUH-Statements)

- EUH 001 Explosive when dry.
EUH 014 Reacts violently with water.
EUH 018 In use may form flammable/explosive vapour-air mixture.
EUH 019 May form explosive peroxides.
EUH 044 Risk of explosion if heated under confinement.
EUH 029 Contact with water liberates toxic gas.
EUH 031 Contact with acids liberates toxic gas.

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- EUH 032 Contact with acids liberates very toxic gas.
- EUH 066 Repeated exposure may cause skin dryness or cracking.
- EUH 070 Toxic by eye contact.
- EUH 071 Corrosive to the respiratory tract.
- EUH 202 Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
- EUH 203 Contains chromium(VI). May produce an allergic reaction.
- EUH 204 Contains isocyanates. May produce an allergic reaction.
- EUH 205 Contains epoxy constituents. May produce an allergic reaction.
- EUH 206 Warning! Do not use together with other products. May release dangerous gases (chlorine).
- EUH 207 Warning! Contains cadmium. Dangerous fumes are formed during use. See information supplied by the manufacturer. Comply with the safety instructions.
- EUH 208 Contains <name of sensitising substance>. May produce an allergic reaction.
- EUH 210 Safety data sheet available on request.
- EUH 401 To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statements (P-statements)

P 100-Series: General

- PI01 If medical advice is needed, have product container or label at hand.
- PI02 Keep out of reach of children.
- PI03 Read label before use.

P 200-Series: Prevention

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat, hot surfaces, open flames and other ignition sources. No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P220 Keep away from clothing and other combustible materials.
- P222 Do not allow contact with air.
- P223 Do not allow contact with water.

Precautionary statements (P-statements)

- 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 packaging.
- P235 Keep cool.
- P240 Ground and bond container and receiving equipment.
- P241 Use explosion-proof [electrical/ventilating/lighting/.../]equipment.
- P242 Use non-sparking tools.
- P243 Take action to prevent static discharges.
- 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/vapours/spray.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P262 Do not get in eyes, on skin, or on clothing.
- P263 Avoid contact during pregnancy and while nursing.
- P264 Wash ... thoroughly after handling.
- 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.
- 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.
- P231 + P232 Handle and store under inert gas/.... Protect from moisture.

P 300-Series: Response

- P301 IF SWALLOWED:
- P302 IF ON SKIN:
- P303 IF ON SKIN (or hair):
- P304 IF INHALED:
- P305 IF IN EYES:
- P306 IF ON CLOTHING:
- P308 IF exposed or concerned:
- P310 Immediately call a POISON CENTER/doctor/...
- P311 Call a POISON CENTER/doctor/...
- P312 Call a POISON CENTER/doctor/... if you feel unwell.

Precautionary statements (P-statements)

- P313 Get medical advice/attention.
- P314 Get Medical advice/attention if you feel unwell.
- P315 Get immediate medical advice/attention.
- P320 Specific treatment is urgent (see ... on this label).
- P321 Specific treatment (see ... on this label).
- P330 Rinse mouth.
- P331 Do NOT induce vomiting.
- P332 If skin irritation occurs:
- P333 If skin irritation or a 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 areas.
- 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.
- P342 If experiencing respiratory symptoms:
- P351 Rinse cautiously with water for several minutes.
- P352 Wash with plenty of water/..
- P353 Rinse skin with water [or shower].
- 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.
- 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 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/...
- P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor/... if you feel unwell.
- P302 + P334 IF ON SKIN: Immerse in cool water or wrap in wet bandages.

Precautionary statements (P-statements)

- P302 + P352 IF ON SKIN: Wash with plenty of water/...
- P304 + P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P306 + P360 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
- P307 + P311 IF exposed or concerned: Call a POISON CENTER/doctor/..
- P308 + P313 IF exposed or concerned: Get medical advice/attention.
- P332 + P313 If skin irritation occurs: Get medical advice/attention.
- P333 + P313 If skin irritation or a rash occurs: Get medical advice/attention.
- P336 + P315 Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice/attention.
- P337 + P313 If eye irritation persists: Get medical advice/attention.
- P342 + P311 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 all 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.
- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do not induce vomiting.
- P302 + P335 + P334 IF ON SKIN: Brush off loose particles from skin. Immerse in cool water [or wrap in wet bandages].
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
- 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 + 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.

Precautionary statements (P-statements)

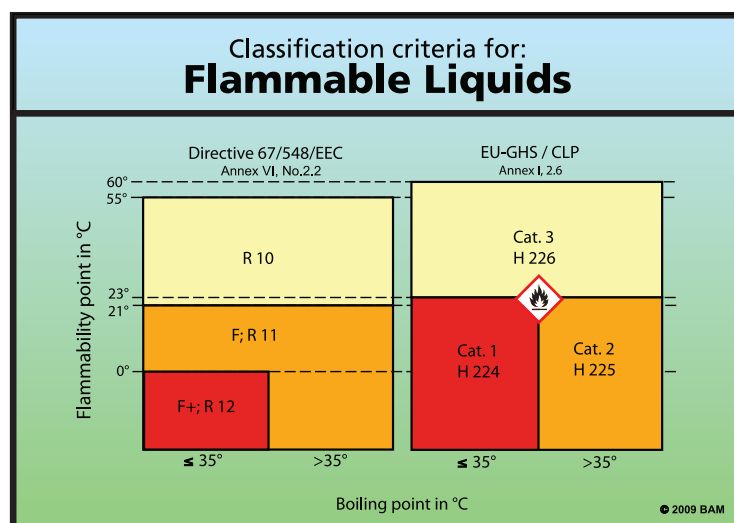
P370 + P380 + P375 + [P378] In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. [Use...to extinguish].

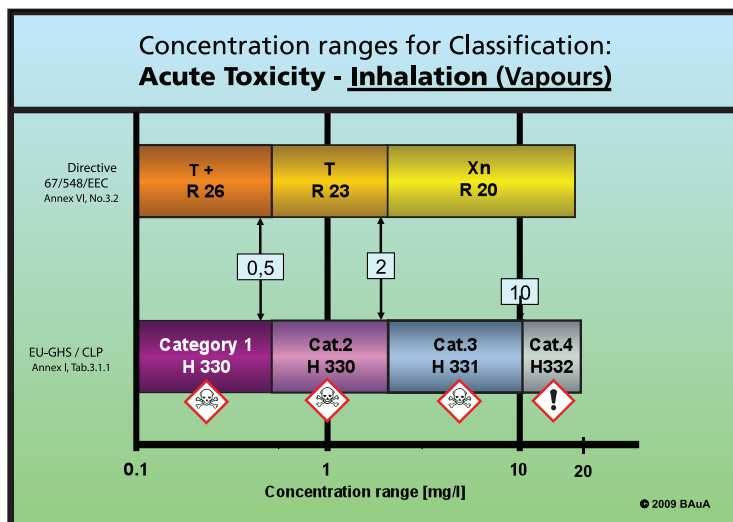
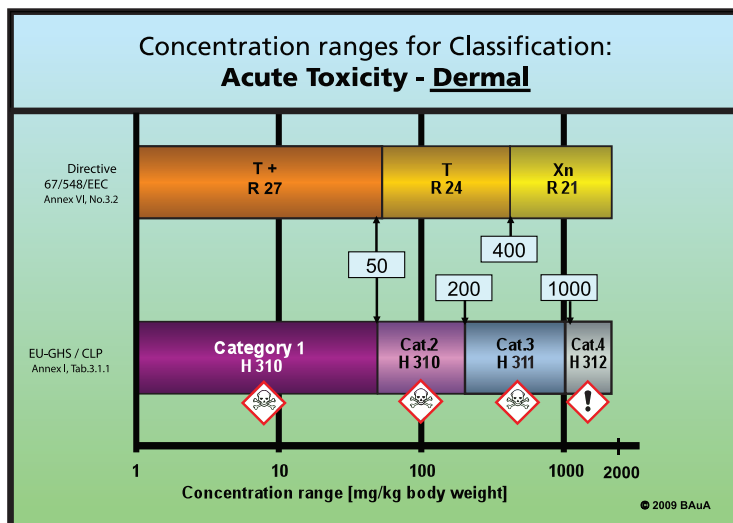
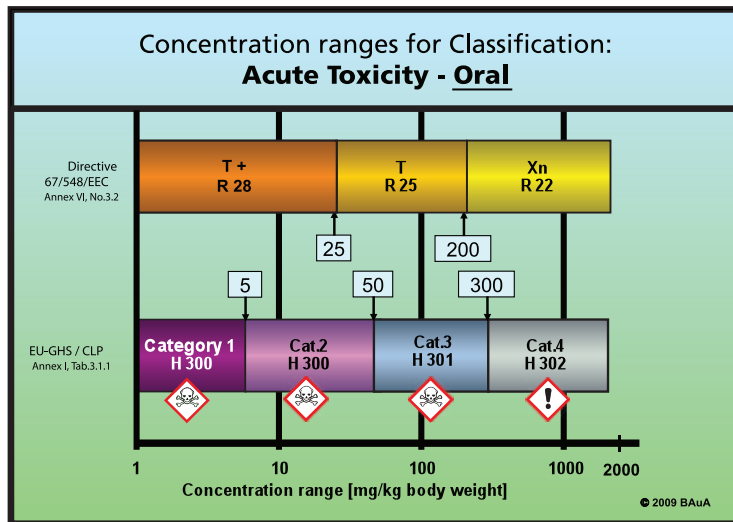
P 400-Series: Storage

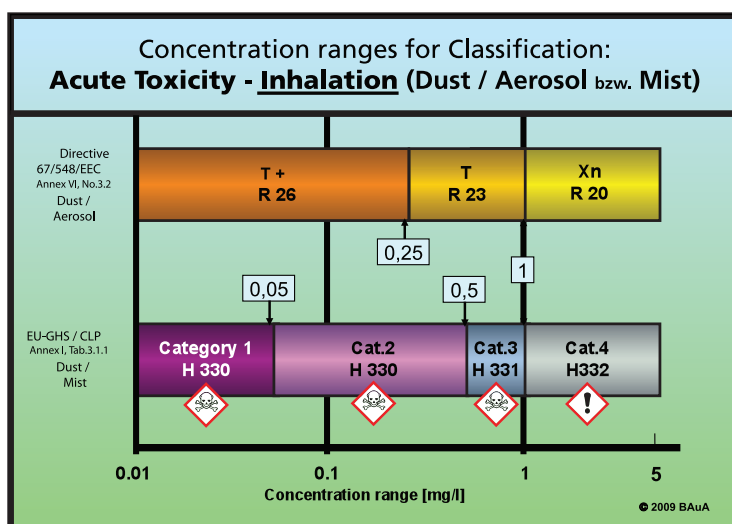
- P401 Store in accordance with....
- P402 Store in a dry place.
- P403 Store in a well-ventilated place.
- P404 Store in a closed container.
- P405 Store locked up.
- P406 Store in a corrosion-resistant/... container with a resistant inner liner.
- P407 Maintain air gap between stacks or pallets.
- 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
- 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.

P 500-Series: Disposal

- P501 Dispose of contents/container to ...
- P502 Refer to manufacturer or suppliers for information on recovery or recycling







Classification and Labelling is set of criteria and rules used to determine if a chemical can cause harm to human health and the environment and involves the identification and evaluation of the physical properties of a chemical, along with its health and environmental effects and then communicating those hazards via a label.

The CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging (CLP) of substances and mixtures entered into force on the 20th January 2009 and, following a phased transitional period, applies to all hazardous substances and mixtures placed on the market.

CLP incorporates the United Nations Globally Harmonised System of classification and labelling of chemicals (GHS) within Europe. GHS is updated on a biennial basis and subsequently these updates are included in CLP via an adaptation to technical progress. CLP is direct acting in all European Member States.

The Competent Authorities under the Chemicals Act 2008 and 2010 in Ireland for the CLP Regulation are the Health and Safety Authority, for industrial chemicals and the Pesticides Registration and Control Division of the Department of Agriculture, Fisheries and the Marine, for plant protection products and biocides.

The National Poisons Information Centre at Beaumont Hospital is appointed as the body responsible for the receipt of information relating to emergency health response in accordance with Article 45 and Annex VIII of CLP.

There is a Chemicals Helpdesk to assist industry to meet their obligations under CLP.

Further sources of information, assistance and guidance can be found at the following:

HSA Chemicals website <http://www.hsa.ie/chemicals>

Chemicals Helpdesk email chemicals@hsa.ie
telephone 1890 289 389

ECHA website <https://echa.europa.eu/regulations/clp>

NPIC website www.poisons.ie

The content of this document is aligned up to the 10th adaptation to technical progress (ATP) to CLP. The document is subject to change as a result of further ATPs to CLP, please check the HSA and ECHA websites for updates. The HSA wish to acknowledge and thank the German Competent Authority, BAUA who provided the format on which this poster is based.