Hazard Statements (H- Statements)

- H200 - 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 aerosol
  - H223: Flammable material
  - H224: Extremely flammable liquid and vapour
  - H225: Highly flammable liquid and vapour
  - H226: Flammable liquid and vapour
  - H228: Flammable solid
  - 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; oxidizer
  - H271: May cause fire or explosion; strong oxidizer
  - H272: May intensify fire; oxidizer
  - 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

(1) Are still discussed in the UN, changes may still arise.
**Hazard Statements (H- Statements)**

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

**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
- **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
  - **H341** Suspected of causing genetic defects
  - **H342** Causes genetic defects
  - **H343** May damage fertility or the unborn child
  - **H344** Suspected of damaging fertility or the unborn child
  - **H345** Causes genetic defects and may damage fertility or the unborn child

**H350 Series: Cancer Hazards**

- **H350** May cause cancer
  - **H350i** May cause cancer by inhalation
  - **H350i** Suspected of causing cancer
  - **H350ii** May cause cancer by inhalation

**H360 Series: Reproductive Hazards**

- **H360** May damage fertility or the unborn child
  - **H360F** May damage fertility
  - **H360D** May damage the unborn child
  - **H360FD** May damage fertility. May damage the unborn child
  - **H360DF** May damage fertility. Suspected of damaging the unborn child
  - **H360DF** May damage the unborn child. Suspected of damaging fertility

**H370 Series: Organ Hazards**

- **H370** Causes damage to organs
  - **H371** May cause damage to organs
  - **H372** Causes damage to organs
  - **H373** May cause damage to organs

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CLP Regulation (EC) No. 1272 / 2008 on the classification, labelling and packaging of substances and mixtures
Hazard Statements (H- Statements)\(^{(1)}\)

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

<table>
<thead>
<tr>
<th>H361</th>
<th>Suspected of damaging fertility or the unborn child &lt;state specific effect if known&gt; &lt;state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>H361f</td>
<td>Suspected of damaging fertility</td>
</tr>
<tr>
<td>H361d</td>
<td>Suspected of damaging the unborn child</td>
</tr>
<tr>
<td>H361fd</td>
<td>Suspected of damaging fertility. Suspected of damaging the unborn child</td>
</tr>
<tr>
<td>H362</td>
<td>May cause harm to breast-fed children</td>
</tr>
<tr>
<td>H370</td>
<td>Causes damage to organs &lt;state specific effect if known&gt; &lt;state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard&gt;</td>
</tr>
<tr>
<td>H371</td>
<td>May cause damage to organs &lt;state specific effect if known&gt; &lt;state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard&gt;</td>
</tr>
<tr>
<td>H372</td>
<td>Causes damage to organs &lt;or state all organs affected, if known&gt; through prolonged or repeated exposure &lt;state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard&gt;</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs &lt;or state all organs affected, if known&gt; through prolonged or repeated exposure &lt;state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard&gt;</td>
</tr>
</tbody>
</table>

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. |

Supplemental Hazard Information (EUH-Statements)

| EUH 001 | Explosive when dry. |
| EUH 006 | Explosive with or without contact with air. |
| 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. |
| EUH 032 | Contact with acids liberates very toxic gas. |
Hazard Statements (H- Statements)(1)

EUH 066 Repeated exposure may cause skin dryness or cracking.
EUH 070 Toxic by eye contact.
EUH 071 Corrosive to the respiratory tract.
EUH 059 Hazardous to the ozone layer.
EUH 201/ Contains lead. Should not be used on surfaces liable to be chewed or sucked by children.
201A Warning! Contains lead.
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 209/ Can become highly flammable in use.
209A Can become flammable in use.
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
P101 If medical advice is needed, have product container or label at hand
P102 Keep out of reach of children.
P103 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/sparks/open flames/hot surfaces. No smoking.
P211 Do not spray on an open flame or other ignition source.
P220 Keep/Store away from clothing/ combustible materials.

(1) Are still discussed in the UN, changes may still arise.
**Precautionary statements (P-statements)**

P221  Take any precaution to avoid mixing with combustibles.
P222  Do not allow contact with air.
P223  Keep away from any possible contact with water; because of violent reaction and possible flash fire.
P230  Keep wetted with
P231  Handle under inert gas.
P232  Protect from moisture.
P233  Keep container tightly closed.
P234  Keep only in original container.
P235  Keep cool.
P240  Ground/bond container and receiving equipment.
P241  Use explosion-proof electrical/ventilating/light/equipment.
P242  Use only non-sparking tools.
P243  Take precautionary measures against static discharge.
P244  Keep reduction valves free from grease and oil.
P250  Do not subject to grinding/shock/friction.
P251  Pressurized container ☐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/while nursing.
P264  Wash thoroughly after handling.
P267  Do not eat, drink or smoke when using this product.
P271  Use only outdoors or in a well-ventilated area.
P273  Contaminated work clothing should not be allowed out of the workplace.
P278  Avoid release to the environment.
P280  Wear protective gloves/protective clothing/eye protection/face protection.
P281  Use personal protective equipment as required.
P283  Wear cold insulating gloves/face shield/eye protection.
P284  Wear respiratory protection.
P285  In case of inadequate ventilation wear respiratory protection.
P301  IF SWALLOWED:
P302  IF ON SKIN:
P303  IF ON SKIN (or hair):
P304  IF INHALED:
P305  IF IN EYES:
P306  IF ON CLOTHING:
Precautionary statements (P-statements)

P307 IF exposed:
P308 IF exposed or concerned:
P309 IF exposed or if you feel unwell:
P310 Immediately call a POISON CENTER or doctor/physician.
P311 Call a POISON CENTER or doctor/physician.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
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).
P322 Specific measures (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/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 victim to fresh air and keep at rest in a position comfortable for breathing.
P341 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 Gently wash with plenty of soap and water.
P351 Rinse cautiously with water for several minutes.
P352 Wash with plenty of soap and water.
P353 Rinse skin with water/shower.
P360 Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P361 Remove/Take off immediately all contaminated clothing.
P362 Take off contaminated clothing and wash before reuse.
P363 Wash contaminated clothing before reuse.
P370 In case of fire:
P371 In case of major fire and large quantities:
P372 Explosion risk in case of fire.
P373 DO NOT fight fire when fire reaches explosives.
P374 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 □ for extinction.
P380 Evacuate area.
Precautionary statements (P-statements)

P381 Eliminate all ignition sources if safe to do so.
P390 Absorb spillage to prevent material damage.
P391 Collect spillage.
P301 +P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301 +P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301 +P330 +P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302 +P334 IF ON SKIN: Immerse in cool water/wrap in wet bandages.
P302 +P350 IF ON SKIN: Gently wash with plenty of soap and water.
P302 +P352 IF ON SKIN: Wash with plenty of soap and water.
P303 +P361 +P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 +P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P304 +P341 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.
P306 +P360 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P307 +P311 IF exposed: Call a POISON CENTER or doctor/physician.
P308 +P313 IF exposed or concerned: Get medical advice/attention.
P309 +P311 IF exposed or you feel unwell: Call a POISON CENTER or doctor/physician.
P332 +P313 If skin irritation occurs: Get medical advice/attention.
P333 +P313 If skin irritation or a rash occurs: Get medical advice/attention.
P335 +P334 Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.
P337 +P313 If eye irritation persists: get medical advice/attention
P342 +P311 If experiencing respiratory symptoms: call a POISON CENTER or doctor/physician.
P370 +P376 In case of fire: Stop leak if safe to do so.
P370 +P378 In case of fire: Use for extinction.
P370 +P380 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.
Precautionary statements (P-statements)

**P 400-Series: Storage**

P401 Store
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 corrosive resistant/ container with a resistant inner liner.
P407 Maintain air gap between stacks/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 away from other materials.
P422 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 Store at temperatures not exceeding °C/ °F. Keep cool.

**P 500-Series: Disposal**

P501 Dispose of contents/container to
Concentration ranges for Classification:

**Acute Toxicity - Oral**

- **Category 1** (H306)
- **Category 2** (H300)
- **Category 3** (H301)
- **Category 4** (H302)

Concentration range (mg/kg body weight):

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Category 1</th>
<th>Category 2</th>
<th>Category 3</th>
<th>Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5</td>
<td>5</td>
<td>50</td>
<td>200</td>
</tr>
<tr>
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</table>

**Directive 67/548/EEC**

Annex VI, No.3.2

**EU-GHS / CLP**

Annex I, Tab.3.1.1

**2009 BAuA**

**Directive 67/548/EEC**

Annex VI, No.3.2

Concentration ranges for Classification:

**Acute Toxicity - Dermal**

- **Category 1** (H310)
- **Category 2** (H310)
- **Category 3** (H311)
- **Category 4** (H312)

Concentration range (mg/kg body weight):

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Category 1</th>
<th>Category 2</th>
<th>Category 3</th>
<th>Category 4</th>
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</thead>
<tbody>
<tr>
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</tbody>
</table>

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**2009 BAuA**

Concentration ranges for Classification:

**Acute Toxicity - Inhalation (Vapours)**

- **Category 1** (H330)
- **Category 2** (H330)
- **Category 3** (H331)
- **Category 4** (H332)

Concentration range (mg/l):

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Category 1</th>
<th>Category 2</th>
<th>Category 3</th>
<th>Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1</td>
<td>0.5</td>
<td>2</td>
<td>10</td>
<td>20</td>
</tr>
<tr>
<td>1</td>
<td></td>
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</table>

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**2009 BAuA**

CLP Regulation (EC) No. 1272 / 2008 on the classification, labelling and packaging of substances and mixtures
Classification and Labelling is a set of criteria and rules used to determine if a chemical can cause harm to human health and the environment. It 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 is direct acting in all European Member States. It has a phased transitional period, firstly for substances and then for mixtures, being the 1st December 2010 and then the 1st June 2015, respectively. These are extended to 1st December 2012 and 1st June 2017 if the substance or mixture is already on the shelf.

CLP introduces the United Nations GHS into Europe and it amends and will eventually replace the existing European Directives 67/548/EEC for substances and Directive 1999/45/EC for preparations. These are transposed in Ireland by Statutory Instruments S.I. No 116 of 2003 (for substances) and S.I. No 62 of 2004 (for preparations), as amended.

The Competent Authorities in Ireland for the CLP Regulation are the Health and Safety Authority, for industrial chemicals, and the Pesticides Control Service Division of the Department of Agriculture Fisheries and Food for plant protection products and biocides. There is a CLP Helpdesk established to assist industry to meet there obligation under CLP.

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

- HSA website www.hsa.ie/clp
- CLP Helpdesk email clp@hsa.ie Telephone 1890 289 389

The content of this poster is subject to change as a result of adaptations to technical progress to the CLP Regulation please check the HSA and ECHA websites for updates. The HSA wish to acknowledge and thank the German Competent Authority, BAUA who provided the information on which this poster is based.