#### **Hazard Communication**

The 'new' Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulations introduce the United Nations Globally Harmonised System (GHS) and replace the 'old' Chemicals (Hazard Information and Packaging for Supply) Regulations (CHIP) with respect to hazard communication. CLP changes some of the criteria for the classification of chemicals including the safety terminology that will be used on future labels and Material Safety Data Sheets MSDSs. The comparison below is between the safety terminology in the 'old' CHIP Regs with that in new CLP Regs, from December 2010.

### R-Phrases: i.e. the old Risk Phrases under CHIP Regs

| R1 | Evnl | ocive | when  | dry  |  |
|----|------|-------|-------|------|--|
| ΓI | EXPI | USIVE | WHEII | ui y |  |

- R2 Risk of explosion by shock, friction, fire or other sources of ignition
- R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition
- R4 Forms very sensitive explosive metallic compounds
- R5 Heating may cause an explosion
- R6 Explosive with or without contact with air
- R7 May cause fire
- R8 Contact with combustible material may cause fire
- R9 Explosive when mixed with combustible material
- R10 Flammable
- R11 Highly flammable
- R12 Extremely flammable
- R14 Reacts violently with water
- R15 Contact with water liberates extremely flammable gases
- R16 Explosive when mixed with oxidizing substances
- R17 Spontaneously flammable in air
- R18 In use, may form flammable/explosive vapour-air mixture
- R19 May form explosive peroxides
- R20 Harmful by inhalation
- R21 Harmful in contact with skin
- R22 Harmful if swallowed
- R23 Toxic by inhalation
- R24 Toxic in contact with skin
- R25 Toxic if swallowed
- R26 Very toxic by inhalation
- R27 Very toxic in contact with skin
- R28 Very toxic if swallowed
- R29 Contact with water liberates toxic gas
- R30 Can become highly flammable in use
- R31 Contact with acids liberates toxic gas
- R32 Contact with acids liberates very toxic gas
- R33 Danger of cumulative effects
- R34 Causes burns
- R35 Causes severe burns

- R36 Irritating to eyes
- R37 Irritating to respiratory system
- R38 Irritating to skin
- R39 Danger of very serious irreversible effects
- R40 Limited evidence of carcinogenic effect
- R41 Risk of serious damage to eyes
- R42 May cause sensitization by inhalation
- R43 May cause sensitization by skin contact
- R44 Risk of explosion if heated under confinement
- R45 May cause cancer
- R46 May cause heritable genetic damage
- R48 Danger of serious damage to health by prolonged exposure
- R49 May cause cancer by inhalation
- R50 Very toxic to aquatic organisms
- R51 Toxic to aquatic organisms
- R52 Harmful to aquatic organisms
- R53 May cause long term adverse effects in the aquatic environment
- R54 Toxic to flora
- R55 Toxic to fauna
- R56 Toxic to soil organisms
- R57 Toxic to bees
- R58 May cause long-term adverse effects in the environment
- R59 Dangerous for the ozone layer
- R60 May impair fertility
- R61 may cause harm to the unborn child
- R62 Possible risk of impaired fertility
- R63 possible risk of harm to the unborn child
- R64 May cause harm to breastfed babies
- R65 Harmful: may cause lung damage if swallowed
- R66 Repeated exposure may cause skin dryness or cracking
- R67 Vapours may cause drowsiness or dizziness
- R68 Possible risk of irreversible effects

# New CLP / GHS Hazard Statements $\underline{\mathbf{v}}$ the old R-Phrases

Note: Some hazard Statements do not have a directly comparable Risk Phrase

| Code   | Statement                                                                                                                                           | Comparable R<br>Phrase |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
|        | EUH0** Special EU Supplementary General Physical Hazard Statements                                                                                  |                        |
| EUH001 | Explosive when dry                                                                                                                                  | R1                     |
| EUH006 | Explosive with or without contact with air                                                                                                          | R6                     |
| EUH014 | Reacts violently with water                                                                                                                         | R14                    |
| EUH018 | In use, may form flammable/explosive vapour-air mixture                                                                                             | R18                    |
| EUH019 | May for explosive peroxides                                                                                                                         | R19                    |
| EUH029 | Contact with water liberates toxic gas                                                                                                              | R29                    |
| EUH030 | Can become highly flammable in use                                                                                                                  | R30                    |
| EUH031 | Contact with acids liberates toxic gas                                                                                                              | R31                    |
| EUH032 | Contact with acids liberates very toxic gas                                                                                                         | R32                    |
| EUH044 | Risk of explosion if heated under confinement                                                                                                       | R44                    |
| EUH059 | Hazardous to the ozone layer                                                                                                                        | R59                    |
| EUH066 | Repeated exposure may cause skin dryness or cracking                                                                                                | R66                    |
| EUH070 | Toxic by eye contact                                                                                                                                | R39-41                 |
| EUH071 | Corrosive to the respiratory tract                                                                                                                  |                        |
|        |                                                                                                                                                     |                        |
|        | EUH2** Special EU rules for supplemental label elements for certain substances or mixtures                                                          |                        |
| EUH201 | Contains lead. Should not be used on surfaces liable to be chewed or sucked by children                                                             |                        |
| EUH202 | Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children                                                            |                        |
| EUH203 | Contains Chromium (VI). May produce an allergic reaction                                                                                            |                        |
| EUH204 | Contains isocyanates. See information supplied by the manufacturer                                                                                  |                        |
| EUH205 | Contains epoxy constituents. See information supplied by the manufacturer                                                                           |                        |
| EUH206 | Warning! Do not use together with other products. May release dangerous gases (chlorine)                                                            |                        |
| EUH207 | Warning! Contains cadmium. Dangerous fumes are formed during use. See information supplied by the manufacturer. Comply with the safety instructions |                        |
| EUH208 | Contains (name of sensitizing substance). May produce an allergic reaction                                                                          |                        |
| EUH209 | Can become highly flammable in use or Can become flammable in use                                                                                   |                        |
| EUH210 | Safety data sheet available on request                                                                                                              |                        |
|        |                                                                                                                                                     |                        |
|        | H2** Physical Hazard Statements                                                                                                                     |                        |
| H200   | Unstable explosives                                                                                                                                 |                        |
| H201   | Explosive; mass explosion hazard                                                                                                                    |                        |
| H202   | Explosive, severe projection hazard                                                                                                                 |                        |
| H203   | Explosive; fire, blast or projection hazard                                                                                                         |                        |
| H204   | Fire or projection hazard                                                                                                                           |                        |

| Code  | Statement                                                                                                                          | Comparable R<br>Phrase |
|-------|------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| H 205 | May mass explode in fire                                                                                                           |                        |
| H220  | Extremely flammable gas                                                                                                            | R12                    |
| H221  | Flammable gas                                                                                                                      | R10                    |
| H222  | Extremely flammable aerosol                                                                                                        | R12                    |
| H223  | Flammable aerosol                                                                                                                  | R10                    |
| H224  | Extremely flammable liquid and vapour                                                                                              | R12                    |
| H225  | Highly flammable liquid and vapour                                                                                                 | R11                    |
| H226  | Flammable liquid and vapour                                                                                                        | R10                    |
| H228  | Flammable solid                                                                                                                    | R10                    |
| H240  | Heating may cause an explosion                                                                                                     | R5                     |
| H241  | Heating may cause fire or explosion                                                                                                | R5, R7                 |
| H242  | Heating may cause a fire                                                                                                           | R7, R12                |
| H250  | Catches fire spontaneously if exposed to air                                                                                       | R17                    |
| H251  | Self heating: may catch fire                                                                                                       |                        |
| H252  | Self heating in large quantities: may catch fire                                                                                   |                        |
|       | In contact with water releases flammable gases which may ignite                                                                    |                        |
| H260  | spontaneously                                                                                                                      | R15-17                 |
| H261  | In contact with water releases flammable gas                                                                                       | R15                    |
| H270  | May cause or intensify fire; oxidizer                                                                                              | R8                     |
| H271  | May cause fire or explosion; strong oxidizer                                                                                       | R9                     |
| 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                                                                                                         |                        |
|       | H3** Health Hazard Statements                                                                                                      |                        |
| H300  | Fatal if swallowed                                                                                                                 | R28                    |
| H301  | Toxic if swallowed                                                                                                                 | R25                    |
| H302  | Harmful if swallowed                                                                                                               | R22                    |
| H304  | May be fatal if swallowed and enters airways                                                                                       | R65                    |
| H310  | Fatal in contact with skin                                                                                                         | R27                    |
| H311  | Toxic in contact with skin                                                                                                         | R24                    |
| H312  | Harmful in contact with skin                                                                                                       | R21                    |
| H314  | Causes severe skin burns and eye damage                                                                                            | R34, R35               |
| H315  | Causes skin irritation                                                                                                             | R38                    |
| H317  | May cause an allergic skin reaction                                                                                                | R43                    |
| H318  | Causes serious eye damage                                                                                                          | R41                    |
| H319  | Causes serious eye irritation                                                                                                      | R36                    |
| H330  | Fatal if inhaled                                                                                                                   | R26                    |
| H331  | Toxic if inhaled                                                                                                                   | R23                    |
| H332  | Harmful if inhaled                                                                                                                 | R20                    |
| H334  | May cause allergy or asthma symptoms or breathing difficulties if inhaled                                                          | R42                    |
| H335  | May cause respiratory irritation                                                                                                   | R37                    |
| H336  | May cause drowsiness or dizziness                                                                                                  | R67                    |
| H340  | May cause genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard) | R46                    |

| Code  | Statement                                                                                                                                                                                                           | Comparable R<br>Phrase                               |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| H341  | Suspected of causing genetic effects (state route of exposure if it is conclusively proven that no other routes of exposure can cause the hazard)                                                                   | R68                                                  |
| H350  | May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)                                                                                           | R45                                                  |
| H350i | May cause cancer by inhalation                                                                                                                                                                                      | R49                                                  |
| H351  | Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)                                                                                | R40                                                  |
| H360  | May damage fertility (H360F) or the unborn child (H360D) (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)                  | R60 (H360F), R61 (H360D)                             |
| H361  | Suspected of damaging fertility (H361f) or the unborn child (H361d) (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)       | R62 (H361f), R63<br>(H361d)                          |
| H362  | May cause harm to breast fed children                                                                                                                                                                               | R64                                                  |
| 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)                                           | R39/23, R39/24,<br>R39/25, R39/26,<br>R39/27, R39/28 |
| 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)                                        | R68/20, R68/21,<br>R68/22                            |
| H372  | Cases 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)     | R48/23, R48/24,<br>R48/25                            |
| 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) | R48/20,<br>R48/21R48/22                              |
|       | H4** Environmental Hazard Statements                                                                                                                                                                                |                                                      |
| H400  | Very toxic to aquatic life                                                                                                                                                                                          | R50                                                  |
| H401  | To avoid risks to human health and the environment, comply with the instructions for use                                                                                                                            |                                                      |
| H410  | Very toxic to aquatic life with long lasting effects                                                                                                                                                                | R53                                                  |
| H411  | Toxic to aquatic life with long lasting effects                                                                                                                                                                     | R51-53                                               |
| H412  | Harmful to aquatic life with long lasting effects                                                                                                                                                                   | R52-53                                               |
| H413  | May cause long lasting harmful effects to aquatic life                                                                                                                                                              | R53                                                  |

### S-Phrases i.e. the old Safety Phrases under CHIP Regs

- S1 Keep locked up
- S2 Keep out of reach of children
- S3 Keep in a cool place
- S4 Keep away from living quarters
- S5 Keep contents under.... (appropriate liquid to be specified by manufacturer)
- S6 Keep under.... (inert gas to be specified by manufacturer)
- S7 Keep container tightly closed
- S8 Keep container dry
- S9 Keep container in a well ventilated place
- S12 Do not keep container sealed
- S13 Keep away from food, drink and animal feedstuffs
- S14 Keep away from .... (incompatible materials to be indicated by the manufacturer)
- S14a Keep away from acids, alkalis, heavy metal salts and reducing substances
- S14b Keep away from reducing substances (e.g. amines), acids, alkalis and heavy metal compounds (e.g. activators, drying agents, metallic soaps)
- S15 Keep away from heat
- S16 Keep away from sources of ignition no smoking
- S17 Keep away from combustible material
- S18 Handle and open container with care
- S20 When using do not eat or drink
- When using do not smoke
- S22 Do not breathe dust
- S23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer)
- S23a Do not breathe vapour/aerosol
- S23b Do not breathe gas/vapour
- S23c Do not breathe gas/vapour/aerosol
- S23d Do not breathe vapour
- S23e Do not breathe aerosol
- S23f Do not breathe gas
- S23g Do not breathe smoke
- S24 Avoid contact with skin
- S25 Avoid contact with eyes
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- S27 Take off all contaminated clothing immediately
- S28 After contact with skin, wash immediately with plenty of.... (to be specified by the manufacturer)
- S28a After contact with skin, wash immediately with plenty of water
- S28b After contact with skin, wash immediately with plenty of water and soap
- S28c After contact with skin, wash immediately with acetic acid 3% and plenty of water
- S28d After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water
- S28e After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water

- S28f After contact with skin, wash immediately with plenty of a 1:1 solution of polyethylene glycol:ethanol
- S28g After contact with skin, wash immediately with plenty of cuprous sulphate solution, 2%
- S28h After contact with skin, wash immediately with plenty of lutrol
- S28i After contact with skin, wash immediately with plenty of propylene glycol
- S28j After contact with skin, wash immediately with plenty of propylene glycol 400 (Roticlean)
- S29 Do not empty into drains
- S30 Never add water to this product
- S33 Take precautionary measures against static discharges
- S35 This material and its container must be disposed of in a safe way
- S36 Wear suitable protective clothing
- S37 Wear suitable gloves
- S38 In case of insufficient ventilation wear suitable respiratory equipment
- S39 Wear eye/face protection
- S40 To clean the floor and all objects contaminated by this material, use..... (to be specified by the manufacturer)
- S40a To clean the floor and all objects contaminated by this material, use plenty of water
- S40b To clean the floor and all objects contaminated by this material, use diluted alkaline solution
- S40c To clean the floor and all objects contaminated by this material, use iodized active carbon
- S41 In case of fire or explosion do not breathe fumes
- During fumigation/spraying wear suitable respiratory protective equipment (appropriate wording to be specified by the manufacturer).
- S42a During fumigation wear suitable respiratory equipment
- S42b During spraying use suitable respiratory equipment
- In case of fire, use..... (in the space indicate the precise type of fire fighting equipment. If water increases the risk, add 'Never use water')
- S43a For extinguishing, use sand, earth, powder or foam
- S43b Never use water
- S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
- S46 If swallowed, seek medical advice immediately and show this container or label
- S47 Keep at a temperature not exceeding... °C (to be specified by the manufacturer)
- S48 Keep wet with.... (appropriate material to be specified by manufacturer)
- S48a Keep wet with water
- S49 Keep only in the original container
- S50 Do not mix with.... (to be specified by manufacturer)
- S50a Do not mix with peroxide activators and reducing agents
- S50b Do not mix with acids
- S50c Do not mix with alkali
- S50d Do not mix with other chemicals
- S51 Use in only well ventilated areas
- Not recommended for interior use on large surface areas
- S53 Avoid exposure obtain special instructions before use

| S56        | Dispose of this material and its container to hazardous or special waste collection                                                            |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------|
|            | point                                                                                                                                          |
| S57        | Use appropriate container to avoid environmental contamination                                                                                 |
| S59        | Refer to manufacturer/supplier for information on recovery/recycling                                                                           |
| S60        | This material and its container must be disposed of as hazardous waste                                                                         |
| S61        | Avoid release to the environment. Refer to special instructions/safety data sheets                                                             |
| S62        | If swallowed, do not induce vomiting; seek medical advice immediately and show<br>this container or label                                      |
| S63<br>S64 | In case of accident by inhalation; remove casualty to fresh air and keep at rest If swallowed, and person is conscious, rinse mouth with water |

## New GHS / CLP Precautionary Statements $\underline{\mathbf{v}}$ the old S- Phrases

Note|: Many Precautionary Statements do not have a comparable Safety Phrase

| Code | Statement                                                                                       | Comparable S<br>Phrase |
|------|-------------------------------------------------------------------------------------------------|------------------------|
|      | P1** General Precautionary Statements                                                           |                        |
| P101 | If medical advice is needed, have product container or label at hand                            | S45                    |
| P102 | Keep out of reach of children                                                                   |                        |
| P103 | Read label before use                                                                           |                        |
|      | P2** Prevention Precautionary Statements                                                        |                        |
| 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                                          |                        |
| P221 | Take any precaution to avoid mixing with combustibles/                                          |                        |
| P222 | Do not allow contact with air.                                                                  |                        |
| P223 | Keep away from possible contact with water, because of violent reaction and possible flash fire |                        |
| P230 | Keep wetted with                                                                                | S5                     |
| P231 | Handle under inert gas                                                                          | S6                     |
| P232 | Protect from moisture                                                                           | S8                     |
| P233 | Keep container tightly closed                                                                   | S7                     |
| P234 | Keep only in original container                                                                 |                        |
| P235 | Keep cool                                                                                       | S3                     |
| 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                                            | S33                    |
| P244 | Keep reduction valves free from grease or oil                                                   |                        |
| P250 | Do not subject to grinding / shock / friction                                                   |                        |
| P251 | Pressurized container: Do nor pierce or burn, even after use                                    |                        |
| P260 | Do not breathe dust / fume / gas / mist / vapour / spray                                        | S23                    |
| P261 | Avoid breathing dust / fume / gas / mist / vapour / spray                                       | S24                    |
| P262 | Do not get in eyes, on skin, or on clothing                                                     | S25                    |
| P263 | Avoid contact during pregnancy / while nursing                                                  |                        |
| P264 | Wash thoroughly after handling                                                                  | S28                    |
| P270 | Do not eat, drink or smoke when using this product                                              | S20-21                 |
| P271 | Use only outdoors or in a well-ventilated area                                                  |                        |
| P272 | Contaminated work clothing should not be allowed out of the work-place                          |                        |
| P273 | Avoid release to the environment                                                                |                        |
| P280 | Wear protective gloves / protective clothing / eye protection / face protection                 | S36                    |
| P281 | Use personal protective equipment as required                                                   |                        |
| P282 | Wear cold insulating gloves / face shield / eye protection                                      |                        |
| P283 | Wear fire / flame resistant / retardant clothing                                                |                        |
| P284 | Wear respiratory protection                                                                     |                        |
| P285 | In case of inadequate ventilation wear respiratory protection                                   | S38                    |

| Code         | Statement                                                                                               | Comparable S Phrase |
|--------------|---------------------------------------------------------------------------------------------------------|---------------------|
|              | P3** Response Precautionary Statements                                                                  | 1                   |
| 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         | If exposed:                                                                                             |                     |
| P308         | If exposed or concerned:                                                                                |                     |
| P309         | If exposed or concerned.  If exposed or if you feel unwell:                                             |                     |
| P310         | Immediately call a POISON CENTRE or doctor / physician                                                  |                     |
| P311         | Call a POISON CENTRE or doctor / physician                                                              |                     |
| P312         | Call a POISON CENTRE of doctor / physician if you feel unwell                                           |                     |
| P313         | Get medical advice / attention                                                                          |                     |
| P314         | Get medical advice / attention  Get medical advice / attention if you feel unwell                       | S45                 |
|              | Get immediate medical advice / attention                                                                | 343                 |
| P315         |                                                                                                         |                     |
| P320         | Specific treatment is urgent (see on this label)                                                        |                     |
| P321         | Specific treatment (see on this label)                                                                  |                     |
| P322         | Specific measures (see on this label)                                                                   | 004                 |
| P330         | Rinse mouth                                                                                             | S64                 |
| P331         | Do not induce vomiting                                                                                  |                     |
| P332         | If skin irritation occurs:                                                                              |                     |
| P333         | If skin irritation or 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 area.                                       |                     |
| P337         | If eye irritation persists:                                                                             |                     |
| P338         | Remove contact lenses, if present and easy to do so. Continue rinsing                                   |                     |
| D0.40        | Remove to fresh air and keep at rest in a position comfortable for                                      | 000                 |
| P340         | breathing                                                                                               | S63                 |
| P341         | If breathing is difficult, remove 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                                                         | S28                 |
| 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                                                 | S27                 |
| P362         | Take off all contaminated clothing and wash before reuse                                                | JZ1                 |
| P362<br>P363 |                                                                                                         |                     |
|              | Wash contaminated clothing before reuse In case of fire:                                                |                     |
| P370         |                                                                                                         |                     |
| P371         | In case of major fire and large quantities:                                                             |                     |
| P372<br>P373 | Explosion risk in case of fire                                                                          |                     |
| レスノス         | DO NOT fight fire when fire reached explosives                                                          |                     |

| Code     | Statement                                                                 | Comparable S<br>Phrase |
|----------|---------------------------------------------------------------------------|------------------------|
| 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                                                             |                        |
| P381     | Eliminate all ignition sources if safe to do so                           |                        |
| P390     | Absorb spillage to prevent material damage                                |                        |
| P391     | Collect spillage                                                          |                        |
|          | P4 Storage Precautionary Statements                                       |                        |
| P401     | Store                                                                     |                        |
| P402     | Store in a dry place                                                      | S8                     |
| P403     | Store in a well ventilated place                                          | S9                     |
| P404     | Store in a closed container                                               | S7                     |
| P405     | Store locked up                                                           | S1                     |
| P406     | Store in corrosive resistant / container with a resistant inner liner     |                        |
| P407     | Maintain air gap between stacks / pallets                                 |                        |
| P410     | Protect from sunlight                                                     |                        |
| P411     | Store at a temperature not exceeding °C/°F                                |                        |
| P412     | Do not expose to temperatures exceeding 50 °C / 122 °F                    |                        |
| P413     | Store bulk masses greater thankg/lbs at temperatures not exceeding°C / °F |                        |
| P420     | Store away from other materials                                           |                        |
| P422     | Store contents under                                                      |                        |
| <u> </u> | P5 Disposal Precautionary Statements                                      |                        |
| P501     | Dispose of contents / container to                                        |                        |