



**SAFEWARE QUASAR LTD**



**New Regulation EC 1272/2008 Classification,  
Labelling and Packaging of Substances and  
Mixtures to be adopted in Europe**

## Background

Preparing for the new CLP Regulation will require significant retraining at levels of the supply chain, from industrial regulatory experts and chemical operators down to the consumers.

This document is intended to cover the principal changes and the enforcement timescales. Readers requiring more comprehensive details are advised to download the complete regulations from the site listed below:

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:353:0001:1355:EN:PDF>

Based on the Globally Harmonised Systems of Classification, Labelling and Packaging of Substances and Mixtures (known as GHS), the European Union (EU) will now adopt a new Regulation for the Classification, Labelling and Packaging of Substances and Mixtures (CLP EC 1272/2008).

The aim is to have a worldwide harmonised classification and communication for hazardous chemicals. The new regulation is expected to enter into force in the UK as CHIP 4 in January 2009.

There will be **significant** changes to classification and labelling with the implementation of the new regulation:

- The classification criterion has changed slightly so there will be changes in the allocation of hazards, although the actual substance or mixture itself has not changed.
- New wording for labels, hazard and precautionary phrases.
- New label design:
  - New or other symbols and sometimes more symbols than today
  - Introduction of a signal word (Danger/Warning)
  - Revised texts for the hazard and precautionary statements (former R&S phrases)

## New Terms in the CLP v CHIP today

New CLP – Regulation	CHIP Regulations
Mixture	Preparation
GHS-Pictogram	Symbol
H-Phrase/ Statement	R-phrase
P-Phrase/ Statement	S-phrase
Signal Word	Not Applicable under CHIP

## Important dates for the implementation of CLP

The CLP-regulation entered into force in January 2008.

The EC directives (67/548/EC and 1999/45/EC) will be repealed with effect from **1 June 2015**.

Target date for classification, labelling and packaging of substances **1 December 2010**.

Until **1 June 2015**, the classification of substances according to both the current EC directive 67/548, and the CLP regulation needs to be shown on the safety data sheet (SDS), when the product is classified and labelled according to the CLP Regulation. This means that the classification of substances according to the current EC directive will be available throughout the whole transition period until **1 December 2015**.

Target date for classification, labelling and packaging of mixtures **1 June 2015**.

For mixtures, there is a provision to use the current EU Directive 1999/45/EC until 30 May 2015. Using the CLP regulations before this date will require the current EU Classification to be used on the SDS.

Substances and mixtures already placed on the market (e.g. in a warehouse, on the shelf) need not be relabelled or repackaged according to the CLP Regulation until two years later, i.e. for substances on **1 December 2012**, for mixtures on **1 June 2017**.

Substances		
Period	CLP – Regulations (GHS)	CHIP (67/548/EEC)
Jan 2009 – 30 <sup>th</sup> Nov 2010	* ✓	✓
1 <sup>st</sup> Dec 2010 – 1 <sup>st</sup> June 2015	** ✓	✗




















\* Application of GHS during this period will require substances to be also classified in accordance with CHIP (67/548) and be communicated via the SDS hence a dual classification system would exist.

\*\* Substances Classified, Labelled and Packaged according to CHIP (67/548) and already placed on the market before 1st Dec 2010 are not required to be relabelled and repackaged until after 1st Dec 2012.

Mixtures		
Period	CLP – Regulations (GHS)	CHIP (67/548/EEC & 1999/45/EC)
Jan 2009 – 30 <sup>th</sup> May 2015	* ✓	✓
1 <sup>st</sup> June 2015 Onwards	** ✓	✗

\* Application of GHS during this period will require mixtures to be also classified in accordance with CHIP (1999/45/EC) and be communicated via the SDS hence a dual classification system would exist.

\*\* Mixtures Classified, Labelled and Packaged according to CHIP (1999/45/EC) and already placed on the market before 1st June 2015 are not required to be relabelled and repackaged until after 1st June 2017.

CLP Pictogram	Number	Hazard Class (CLP)	CHIP Symbol
	GHS-01	-Explosives -Self reactive substances and mixtures, Types A, B -Organic peroxides, Types A, B	 Explosive
	GHS-02	-Flammable gases, aerosols, liquids or solids -Self-reactive substances and mixtures -Pyrophoric liquids and solids -Self-heating substances and mixtures -Substances and mixtures, which in contact with water, emit flammable gases -Organic peroxides	 Highly/Extremely Flammable
	GHS-03	-Oxidizing gases, liquids and solids	 Oxidising
	GHS-04 NEW	-Compressed gases -Liquefied gases -Refrigerated liquefied gases -Dissolved gases	No current symbol
	GHS-05	-Corrosive to metals -Skin corrosion -Severe eye damage	 Corrosive
	GHS-06	-Acute toxicity (Cat 1 – 3)	  Toxic/ Very Toxic      Harmful
	GHS-07 NEW	-Acute toxicity (Cat 4) -Skin and eye irritation -Skin sensitisation -Specific Target Organ Toxicity -Respiratory tract irritation -Narcotic effects	 Harmful/Irritant
	GHS-08 NEW	-Respiratory sensitisation -Germ cell mutagenicity -Carcinogenicity -Reproductive toxicity -Specific Target Organ Toxicity -Aspiration hazard	  No current specific symbol. Uses Either
	GHS-09	-Hazardous to the aquatic environment	 Dangerous for the Environment

## Example Hazard Label According to the New CLP-Regulation (CHIP 4)

Isoheptane

EC No 250-610-8



Danger

H225: Highly flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H336: May cause drowsiness or dizziness.

H410: Very toxic to aquatic life with long lasting effects.

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/  
face protection.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE or  
doctor/physician.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a  
position comfortable for breathing.

P273: Avoid release to the environment.

Name, Address and Tel No. of EU Supplier

The H and P numbers are not mandatory  
The P- Statements are not allocated to the substance but use the criteria detailed  
in Annex IV

## Example Hazard Label According to the EC Directive (67/548/EEC) CHIP 3

### Isoheptane

#### EC Label 250-610-8



Highly Flammable



Harmful



Dangerous for the Environment

R11: Highly flammable.

R65: Harmful: may cause lung damage if swallowed.

R67: Vapours may cause drowsiness and dizziness.

R38: Irritating to skin.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S9: Keep container in a well-ventilated place.

S16: Keep away from sources of ignition - No smoking.

S29: Do not empty into drains.

S33: Take precautionary measures against static discharges.

S60: This material and its container must be disposed of as hazardous waste.

S61: Refer to instructions/safety data sheets.

S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Name, Address and Tel No. of EU Supplier

The R and S numbers are not mandatory  
The S Statements are allocated in the Annex 1 list of substances