

**Pressure Equipment Directive PED 2014/68/EU
Commission's Working Group "Pressure"**

Guideline related to: Article 13

Question	Where to find additional information on classification of fluids based on PED Article 13 as of 1 June 2015?		
Answer	As of 1 June 2015 classification of fluids is based on article 13 of PED 2014/68/EU. Article 13 paragraph 1 (a) lists the physical and health hazard classes and categories for substances and mixtures included in Group 1. The classification is based on the CLP Regulation (EC) No 1272/2008. The table below provides an overview of the hazard classes and categories and the corresponding hazard statements according the CLP Regulation including references to the criteria and label elements in the CLP Regulation.		
CLP hazard classes and categories (as listed in article 13 of PED)	Criteria according to Annex I to CLP	Hazard statement according to CLP	Label elements according to Annex I to CLP
(i) unstable explosives or explosives of Divisions 1.1, 1.2, 1.3, 1.4 and 1.5;	Section 2.1.2	H200, H201, H202, H203, H204, H205	Table 2.1.2
(ii) flammable gases, category 1 and 2;	Section 2.2.2	H220, H221	Table 2.2.3
(iii) oxidising gases, category 1;	Section 2.4.2	H270	Table 2.4.2
(iv) flammable liquids, category 1 and 2;	Section 2.6.2	H224, H225	Table 2.6.2
(v) flammable liquids, category 3 where the maximum allowable temperature is above the flashpoint;	Section 2.6.2	H226	Table 2.6.2
(vi) flammable solids, category 1 and 2;	Section 2.7.2	H228	Table 2.7.2
(vii) self-reactive substances and mixtures, type A to F;	Section 2.8.2	H240, H241, H242	Table 2.8.1
(viii) pyrophoric liquids, category 1;	Section 2.9.2	H250	Table 2.9.2
(ix) pyrophoric solids, category 1;	Section 2.10.2	H250	Table 2.10.2
(x) substances and mixtures which in	Section 2.12.2	H260, H261	Table 2.12.2

contact with water emit flammable gases, category 1,2 and 3;			
(xi) oxidising liquids, category 1, 2 and 3;	Section 2.13.2	H271, H272	Table 2.13.2
(xii) oxidising solids, category 1, 2 and 3;	Section 2.14.2	H271, H272	Table 2.14.2
(xiii) organic peroxides types A to F;	Section 2.15.2	H240, H241, H242	Table 2.15.1
(xiv) acute oral toxicity, category 1 and 2;	Table 3.1.1	H300	Table 3.1.3
(xv) acute dermal toxicity, category 1 and 2;	Table 3.1.1	H310	Table 3.1.3
(xvi) acute inhalation toxicity, category 1, 2 and 3;	Table 3.1.1	H330, H331	Table 3.1.3
(xvii) specific target organ toxicity – single exposure, category 1.	Table 3.8.1	H370	Table 3.8.4
Note 1	<p>Article 13 paragraph 1 (a) also states that "Group 1 comprises also substances and mixtures contained in pressure equipment with a maximum allowable temperature which exceeds the flash point of the fluid". The purpose of this provision is to ensure that the flammability hazard is properly addressed for those substances and mixtures which are not classified as flammable under the CLP Regulation (based on the temperature criteria of the CLP Regulation) but which are presenting this hazard due to the maximum allowable temperature (TS).</p> <p>For example, Heat transfer oils are not classified as flammable liquids according to the CLP Regulation because their flashpoint is above 60 °C (see CLP Regulation Annex I, Table 2.6.1 in Section 2.6 Flammable Liquids, 2.6.2 Classification criteria). However, if the maximum allowable temperature (TS) is above the flashpoint, the hazard of heat transfer oil corresponds to a Group 1 fluid.</p>		
Note 2	<p>Please note that the CLP Regulation is subject to adaptations to technical progress and therefore the information in the table above should be checked with the version of the CLP Regulation in force at the time the equipment is placed on the market.</p>		
Note 3	<p>For questions related to the CLP Regulation please consult your national CLP-helpdesks. Further information on the CLP Regulation can be found on the European Chemicals Agency (ECHA) website: www.echa.europa.eu. On the ECHA website there is also a list with the contact details of all national CLP-helpdesks.</p>		

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