European Leak Detection Standard Revised

By Jamie Thompson

parts 1 to 7 have just been revised System of Classification and the resulting vote for the Labelling of Chemicals (GHS) standards by all European Countries Hazard Statements: H-statements. has resulted in a positive vote and all the revised standards are now classified according to Registration, approved.

which will affect regulators, tank risk materials: R-statement R 22 manufacturers and equipment (harmful by swallowing) or all nonmanufacturers and users and they classified liquids. are as follows.

(EN 13160-3) underground tanks is no longer Evaluation,

The European Standard EN 13160 according to Global Harmonized

The leak detection liquid shall be Authorization Evaluation, There are two specific changes Restriction of Chemicals (REACH) for

For an above ground tank with an interstitial space ≤ 1 m3 the leak 1. The use of Class 2 liquid leak detection liquid shall be classified in according to Reaistration, Authorization

permitted in new underground tanks as this is now classed as a will harm poison and groundwater. This has been the case in many countries for some time but is now adopted European wide.

Liquid systems - No Longer **Permitted for Underground Tanks**

underground all regardless of interstitial space volume and also for above ground

tanks with an interstitial space > 1 m3 the leak detection liquid shall be not hazardous to water. For these applications the leak detection liquid shall not be classified

Restriction of Chemicals (REACH) for risk materials: acceptable maximum R-statement R 22 (harmful by swallowing) or all non-classified liquids.

This ruling does not apply to existing tanks only new tanks and will mean that underground tanks will have in future to only be fitted with Class 1 leak detection systems (Pressure or Vacuum systems)

Class 1 Pressure or Vacuum leak detection systems only permitted for underground tanks

- 2. The other notable change is in Part 7 of EN13160 which deals with test methods for interstitial spaces, leak protecting linings and leak protecting jackets. The new requirements for permeation on linings especially flexible linings will require some existing systems to be re-tested to meet the more stringent requirements of the permeation of tank lining which will now be 100g/m² per day in a metal tank but 0.1a/m² per day in a non metallic tank.
- 3. Another inclusion in this new version is that of the electronic pressure line leak detectors which have been added to EN13160-5. The standard explains their test procedures and the operating mode together with the limiting factor- they will only operate when the pumps is at rest.

For both users and regulators the certification of compliance and test report from a European notified body will ensure conformity with the law.

