

EUROPEAN TOY SAFETY: NEW METHOD FOR CHEMISTRY AND RELATED ACTIVITY SETS PUBLISHED

The new European standard EN 71-4:2013 has been published. The new method is a reference test method for 'Experimental sets for chemistry and related activities' under the toy safety EN 71 series.

Under the Toy Safety Directive 2009/48/EC (TSD), non chemical requirements including the chemical safety assessment (CSA) were enforced in July 2011. The chemical requirements will be enforced on 20 July 2013.

The new EN 71-4:2013 has been published and will eventually repeal the existing method EN 71-4:2009 when the new version is harmonised under the TSD by publication in the Official Journal of the European Union (OJEU).

Highlights of the new method, including a comparison with the existing standard method EN 71-4:2009, are summarised in Table 1.

| Experimental sets for chemistry and related activities | | |
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| Standard | EN 71-4:2009 | EN 71-4:2013 |
| Scope | <ul style="list-style-type: none">Chemistry sets and supplementary setsToys for experiments in mineralogy, biology, physics, microscopy and environmental science | <ul style="list-style-type: none">Experimental sets for chemistry and related activities including crystal growing sets, carbon dioxide generating experimental sets and supplementary setsToys for experiments in mineralogy, biology, physics, microscopy and environmental science if they contain 1 or more chemicals and / or mixtures that are hazardous (CLP Regulation) <p>Exemption</p> <ul style="list-style-type: none">Toys covered by EN 71-13 (e.g. cosmetic kits) |

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| Experimental sets for chemistry and related activities | | |
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| Standard | EN 71-4:2009 | EN 71-4:2013 |
| Chemistry sets | <ul style="list-style-type: none"> Only substances, preparations and indicators under Tables 1 and 2 may be supplied up to amounts stated | <ul style="list-style-type: none"> Only the chemical substances, mixtures and indicators given in Table 1 and Table 2 may be supplied in chemistry sets or in a supplementary set for a <i>chemistry set</i> up to the amounts and concentrations specified in those tables Substances and mixtures in a chemistry set or in a supplementary set of a chemistry set shall be supplied in containers which are provided with enclosures (eg complies with EN ISO 8317) Colourants and colouring materials not specified in Table 2 may only be supplied if they do not react with substances and mixtures of the set and if they conform to specified hazards Eye protection shall be provided Defined safety rules shall be provided |
| Labelling | <ul style="list-style-type: none"> Danger symbols based on Dangerous substances Directive 67/548/EEC | <ul style="list-style-type: none"> Globally Harmonised System (GHS) Pictograms based on the Classification, Labelling and Packaging of Substances and Mixtures Regulation (EC) 1272/2008 (CLP) |
| Crystal Growing Sets | --- | <ul style="list-style-type: none"> Table 4 defines allowed substances and their concentrations, including substances supplied as mixtures or in solutions Only contain substances which cannot react with each other Substances and mixtures shall be supplied in child-resistant packaging (EN 862) Colourants may be used provided they meet certain hazard requirements Colourants permitted for use in food or cosmetics may be provided Materials on which to grow crystals may be supplied (e.g. plaster of Paris (gypsum), different stones and minerals) without limits to quantities. The use of gypsum applies to requirements under EN 71-5 (labelling etc) Eye protection shall be provided if substance required GHS05 (corrosive) pictogram Defined safety rules shall be provided |

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| Experimental sets for chemistry and related activities | | |
|--|--------------|---|
| Standard | EN 71-4:2009 | EN 71-4:2013 |
| Carbon dioxide generating experimental sets | --- | <ul style="list-style-type: none"> Table 5 defines substances and their concentrations that may be supplied to these sets whose function relies on the generation of carbon dioxide, including substances supplied as mixtures or in solutions Substances shall be supplied in child-resistant packaging (EN 862) Gypsum or colourants may be present. The use of gypsum applies to requirements under EN 71-5 (i.e. labelling etc). Colourants may be used provided they meet certain hazard requirements Defined safety rules shall be provided |

Throughout our global network of laboratories, we are able to provide a range of services, including analytical testing and consultancy for the new EN 71-4:2013.

SGS also offers a wide range of services to ensure that your products comply with the EU Toy Safety Directive. We offer training, safety/risk assessment, technical documentation check, labelling review, testing according to harmonised standards, SVHC screening, inspections and audits. With the largest global network of toy experts and testing facilities around the world - around 20 toy labs worldwide including 5 EU Notified Bodies (France, UK, Germany, Netherlands and Turkey), SGS is the partner to trust. Please do not hesitate to contact us for further information or [visit our website](#).



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