

New version of the EN 71-4 standard, “Safety of toys - Part 4: Experimental sets for chemistry and related activities”

January 2021

CEN has published a revision of standard EN 71-4, which is a safety standard intended to reduce the risks and health hazards to a child when experimental sets involving chemical experiments are used as intended or in a foreseeable way, bearing in mind the behaviour of children. The scope of this standard cover three types of experimental sets as below,

- Chemistry set
- Crystal growing set
- Carbon dioxide generating experimental set

This standard prescribes the lists of chemical substances that are allowed for each type of experimental set, together with the maximum amount allowed for each listed substance, safety measures and precautions, safety instructions, warnings and other safety considerations applicable for carrying out the experiment.

In the updated 2020 version of the EN 71-4 standard, the highlights of some of the key changes are illustrated as followed,

- Clarify the EN 71-4 standard does not apply to combined sets (e.g. a combination of a chemistry set and a crystal growing set)
- Update the required GHS pictograms and signal words for certain listed substances
- Accept food additives and their mixtures according to Regulation (EC) 1333/2008 for chemistry sets, if pure food additives are not classified as hazardous substances or mixtures are not classified as hazardous mixtures.
- Permit closures in compliance with EN ISO 8317:2015 only as the closures for child-resistant containers
- Require eye protection for carbon dioxide generating experimental sets containing substances which are required to be marked with the GHS pictogram GHS05
- Revise the requirements on marking of the primary packaging
- Add the safety rule “Always wear eye protection.” for carbon dioxide generating experimental set which contain substances which are required to be marked with the GHS pictogram GHS05

EN 71-4:2020 shall obtain the official standard status once it is published on EU Official Journal as the reference of harmonized standards under Directive 2009/48/EC on the safety of toys

Enquiry

TÜV Rheinland Hong Kong
Charles Ng
+852 2192 1960
Charles.Ng@tuv.com

www.tuv.com

 **TÜVRheinland®**
Precisely Right.