

Draft Amendment to AS/NZS ISO 8124.1

AS/NZS ISO 8124.1: 2002 is the mandatory product safety standard for **Toys** under the **Trade Practices Act 1974, Consumer Protection Notice No. 14 of 2003, as amended by Consumer Protection No. 1 of 2005 in Australia**. It is also the mandatory product safety standard for **Toys** under the **Product Safety Standards (Children’s Toys) Regulations 2005 (SR 2005/236) in New Zealand**.



The Standards Development Committee CS-018 (Safety of Children’s Toys) has published a **Draft Amendment 2 (DR 08146 CP)** to **AS/NZS ISO 8124.1:2002 – Safety of toys – Part 1: Safety aspects related to mechanical and physical properties** for public comment on 1 August, 2008. The committee will receive comment until **12 September, 2008**.

Changes in the proposed draft Amendment are summarized in **Tables 1 & 2**, and the draft Amendment can be accessed and downloaded through:

<http://www.saiglobal.com/shop/Script/Details.asp?DocN=MSWD08146ATCRD>

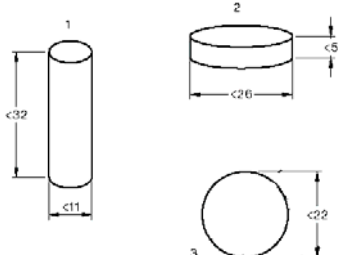
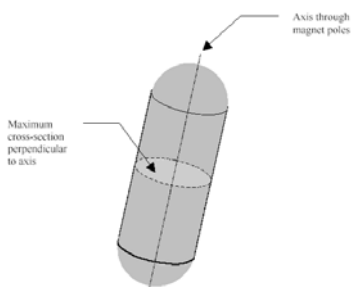
<http://www.standards.co.nz/web-shop/?mod=drafts&draftId=DR08146&action=viewDraft>

Table 1 – Proposed Changes to Existing Requirements

Clause	Proposed Changes
3.2 (Aquatic toy)	Delete the word “shallow”.
4.19 (Aquatic toys)	Delete the words “Aquatic toys shall carry a warning that the product is not a life-saving device (see C.2.6 for guidance),” and replace with “Aquatic toys shall carry warnings in accordance with C.2.6.”
C.2.6 (Aquatic toys)	Delete paragraph and replace with the following: “An aquatic toy shall carry the following warning statement using block capitals no less than 6 mm in height in a colour contrasting with background: WARNING AQUATIC TOY USE ONLY UNDER SUPERVISION ”
E.33 (Aquatic toys)	1 Delete first paragraph, second sentence. 2 Delete words “shallow”, “generally”, “the” and “of an adult” in the last sentence.
3.34 (Paper)	Replace the words “areic mass” with “mass per unit area”.
4.3.1 (Material quality)	Replace the words “unaided eye” with “normal corrected vision”
4.10 (Plastic film or plastic bags in packaging and in toys)	Add: (c) Flexible plastic bags that have a nominal thickness 0.038 mm or greater and without perforations as defined in Item (b) above shall carry a legible cautionary label similar to the following: “Warning! To avoid suffocation and danger to babies and children, dispose of this bag immediately.”
4.18.2 (d) (Projectile toys with stored energy)	Delete existing Item (d) and replace with the following: “Each projectile, without compressing it and whatever its orientation, shall not fit entirely into the small parts cylinder, as shown in Figure 13 . This requirement applies regardless of the age group for which the toy is intended.”
4.23 (Toys containing a heat source)	Add the following Note: NOTE: 1 K temperature difference = 1 C temperature difference.
Figure 19 (Point tester)	Add the following Note: NOTE: Point tester can be obtained from Instrument and Marketing Service Inc.

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Table 2 – Proposed New Requirements

Clause	Proposed Changes
<p>3.55 (Hazardous magnet)</p>	<p>Add the definition for “Hazardous Magnet” and Figure 6(A) for the shapes and sizes.</p> <p>Hazardous magnet - A magnet which has a flux index $>50 \text{ kg}^2\text{mm}^2$ when determined according to the method in 5.25 and which is in any of the following shapes and sizes (refer to Figure 6(A)):</p> <ol style="list-style-type: none"> 1. A cylinder with a length of not more than 32 mm and a diameter of not more than 11 mm. 2. A disk with a diameter of not more than 26 mm and a thickness of not more than 5 mm. 3. A sphere with a diameter of not more than 22 mm, or 4. Any solid that will fit entirely within the volume or envelop of any of the above defined shapes. <div style="text-align: right;">  <p>Figure 6(A) – Hazardous magnets shapes and sizes</p> </div>
<p>3.56 (Hazardous magnetic component)</p>	<p>Add the definition for “Hazardous magnetic component”.</p> <p>Hazardous magnetic component - Any part of a toy which contains an attached or imbedded magnet that meets the dimensional criteria set forth in 3.55 and which has a flux index $>50 \text{ kg}^2\text{mm}^2$ when determined according to the method in 5.25.</p>
<p>4.28 (Magnets)</p>	<p>Add the following new clause:</p> <p>The requirements in 4.28 do not apply to magnets used in motors, relays, speakers, electrical components, and similar devices where the magnetic properties are not part of the play pattern of the toy.</p> <ol style="list-style-type: none"> a) Toys containing a loose as-received hazardous magnet or a loose as-received hazardous magnetic component shall carry a warning (see C.2.19 for guidance). b) Toys shall not liberate a hazardous magnet or hazardous magnetic component after being tested for normal use (see 4.1 for guidance) and reasonably foreseeable abuse in accordance with 5.24.
<p>5.25 (Magnetic flux index)</p>	<p>Add the test procedure (5.25.1 – 5.25.3) for calculation of the magnetic flux index^a and Figure 22 for illustration of pole surface on a magnet with rounded ends.</p> <p>^a The magnetic flux index (kg^2mm^2) is calculated by multiplying the area of the pole surface (mm^2)^c of the magnet by the square of the maximum flux density (kg^2)^b.</p> <p>^b Flux density is measured by means of D.C. field gauss meter with a resolution of 5 gauss (G) and an axial type probe having an active area diameter of $0.76 \pm 0.13 \text{ mm}$ with a distance between the active area and probe tip of $0.38 \pm 0.13 \text{ mm}$.</p> <p>^c Pole surface area is measured by means of caliper or similar device with a resolution of 0.1 mm. If the pole surface of the magnet is flat, area is calculated using the appropriate geometric formula. If the pole is not flat (e.g., hemispherical), the pole surface area is the maximum cross section of the magnet perpendicular to an axis through the magnet poles as illustrated in Figure 22.</p> <div style="text-align: right;">  <p>Figure 22 – Illustration of pole surface on a magnet with rounded ends</p> </div>

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Table 2 – Proposed New Requirements (Cont'd)

<u>Clause</u>	<u>Proposed Changes</u>
C.2.19 (Magnets)	<p>Add the following new clause:</p> <p>The packaging and instructions of toys which contain loose as-received hazardous magnets or loose as-received hazardous magnetic components should include a statement similar to the following:</p> <p>“Warning! The product contains (a) small magnet(s). Swallowed magnets can stick together across intestines causing serious infections and death. Seek immediate medical attention if magnet(s) are swallowed or inhaled.”</p>
E. 40 (Magnets)	<p>Add the following new clause:</p> <p>These requirements apply to all toys. They are intended as an interim measure to partially address ingestion hazards associated with any toys used by all age groups that contain a hazardous magnet or hazardous magnetic component. These requirements do not apply to magnets used in motors, relays, speakers, electrical components, and similar devices where the magnetic properties are not part of the play pattern of the toy.</p>

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Specialized Technology Resources (H.K.) Ltd. has obtained HOKLAS accreditation on various toy safety standards. For details of our HOKLAS scope of accreditation, please visit: <http://www.itc.gov.hk/en/quality/hkas/doc/hoklas/036.pdf>

For enquires or other information on toys and reliability testing, please contact STR at:

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