

APPA PRODUCT SAFETY



**Product Safety
Fundamentals for
Australia & New Zealand**

Module 2 : Achieving Safe Products

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**Module
Presenter**



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This module

-  Types of hazards
-  What to look for
-  How to manage safety and compliance




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Disclaimer

This information is being furnished by APPA for education and information purposes only. The Association makes no warranties or representations about specific dates, coverage or application.

Consult with appropriate legal counsel about the specific application of the law to your business and products.



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Achieving safe and compliant products

ACL or NZ mandatory standard or ban?

Specific product regulator?

Follow the specifications in the regulation . . .



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Achieving safe and compliant products

Regulations may not cover all aspects of the product's safety

Often need to look beyond regulated requirements



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Achieving safe and compliant products

If no regulation;

- First check if there's a published standard
- In Australia and New Zealand many standards are developed and published jointly, for example AS/NZS 8124 series on toy safety
- Other standards bodies publish standards, eg. ISO, ASTM, ANSI, EN, BS



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Product standards

- A standard provides product designers, manufacturers and others in the supply chain with details on how to make a product safe
- May contain specifications for design, performance and how to test for these things



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Candles

Some regulations – lead in wicks, combustible holders, sky lanterns

Voluntary standards are also available, eg. ASTM series
These cover:

- glass containers
- flame height
- stability
- labelling



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Candles

Product Name: **Tilley Soaps Australia Pty Ltd – Tilley Orange Blossom Candle 240g**

Product ID: **10000000000000000000**

Manufacturer: **Tilley Soaps Australia Pty Ltd**

Product Description: **240g Orange Blossom Candle**



Identifying features:

Barcode number: **10000000000000000000**

SKU: **10000000000000000000**

What are the defects?

Product from local testing at: **Product Safety Pty Ltd**



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No standard? You can still assess safety

- Test companies can advise
- Many qualified testers in Australasia and Asia
- Explore other resources first



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No standard? You can still assess safety

Check for:

- any recalls
- government websites alerts and guidance
- regulations elsewhere
- injuries associated with this type of product
- other guides – industry, ISO



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Product recalls

"The base of the glass cup may separate from the rest of the cup if using boiling water.

Potential scalding or burning hazard.*



Image: product.safety.gov.au
Recall Number: 141 - Check for cup, 2014, April 2014



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Product recalls

No mandatory standard for drinkware, but unsafe to use

Way of recognising potential hazards



Image: product.safety.gov.au
Recall Number: 141 - Check for cup, 2014, April 2014



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Product recalls

IKEA TROLIGTVIS travel mug

"Phthalate (DBP) may leach out of the travel mugs

Exposure to dibutyl phthalate (DBP) may result in adverse health effects"



Image courtesy of: IKEA FY 19 - IKEA Group Inc. February 2019



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Product recalls

Childproof caps for all of IKEA's BILLY bookcases

Childproof caps for all of IKEA's BILLY bookcases may pose a choking hazard for young children.



Image courtesy of: IKEA FY 19 - IKEA Group Inc. February 2019



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Product recall

"The press-studs may detach from the garment may pose a choking/ingestion hazard for young children."

No mandatory standard for children's general apparel, but unsafe to use.



Image courtesy of: IKEA FY 19 - IKEA Group Inc. February 2019



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Injury reports

5.7 million children's water bottles recalled due to choking - [The Guardian](#) (2019/02/14) - 5.7 million of children's water bottles ...
 Aug 27, 2013 - Company reporting over 5 million water bottles with a choking hazard was ...
 According to the United States Consumer Product Safety ...

Recall: 7 million water bottles recalled by choking hazard - [BBC](#) ...
 13 Jul 2013 - The recall of a new BPA-free water bottle was prompted by a ...
 The recall is due to a choking hazard ...

Kids Health info : Safety: Choking, suffocation and ...
 Kids Health info : Safety: Choking, suffocation and ...
 Safety: Choking, suffocation and suffocation prevention - Kids Health info ...
 Kids Health info : Safety: Choking, suffocation and ...
 Kids Health info : Safety: Choking, suffocation and ...




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Social media

Filter Results

VIDEOS

- 1. Home
- 2. All
- 3. My Watch
- 4. My Channel and more
- 5. Lists
- 6. Browse History

VIDEOS

- 1. All Videos
- 2. My Channel
- 3. My Channel
- 4. My Channel
- 5. My Channel
- 6. My Channel

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Social media

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Standards for systems: AS ISO 10393

Published
2013-04-15

Consumer product recall — Guidelines for suppliers

Approved by product safety stakeholders — Update of the 2013 guidelines for
manufacturers



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Industry guidance

RESOURCES

*US National
Candle Association*

Website resources

-  News Center
-  Site & Safety
-  Industry Materials
-  Network of Candle Co.
-  Resources
-  Publications



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Product Safety Solutions

Website: A learning and news resource for product safety and design:

- Blog articles
- Podcasts
- Facebook page
- E books
- Newsletters
- Product safety directory
- ... and more

product safety solutions

Developed and maintained by G&K Creatives



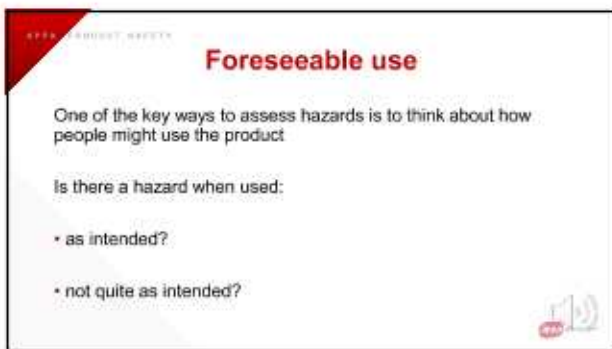
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PPS PRODUCT SAFETY

Plastic drink bottle example

Elements

- Bottle
- Cap
- Spout



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Plastic drink bottle example

Unintended (foreseeable?) uses

- Cap – put in mouth
- Spout – chewed on
- Chemicals leaching – left in a hot car
- Wrong liquids – Household chemicals?
- Loose in car – interferes with pedals?



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Foreseeable use

Remote controls powered by button batteries

Intended purpose – channel changer, etc.

Actual use – intended purpose
AND
A child's plaything



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Foreseeable use

All toy standards have tests that replicate foreseeable use and abuse for playthings designed for children under three

- Drop
- Torque
- Twist
- Tension
- Strength



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Foreseeable use

Candles - use and misuse

Write down some ways that candles might be used that are unsafe



 Please **pause** the video and write a list




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Foreseeable use

Candles

- Placed next to curtains?
- Failure to trim the wick?
- Are they trick candles?



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Recap on hazard assessment

- Standards
- Any recalls
- Government websites alerts and guidance
- Other guides – industry, ISO
- Regulations elsewhere
- Associated injuries

... and Brainstorm



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Addressing hazards

- Is there a standard?
- Does it cover the hazard?
- Consult an expert?



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Addressing hazards

Product testing

- Design stage
- In production and on the finished product

Test reports

- Available from the manufacturer or your supplier



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Product safety hierarchy



#1 - Design



#2 - Guards/
protective devices



#3 - Information/warnings



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Plastic drink bottle example

Unintended (foreseeable?) uses

Cap – put in mouth – attach to bottle's neck

Spout – chewed on – use a more dense, less chewable material, that's properly attached

Chemicals leaching – use plastics with recommended chemical make-up



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Apparel

- Mandatory information standards
- Mandatory safety standards
- Hazards



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Apparel


Mandatory standards

Labelling (including):

- care instructions
- fibre content
- country of origin

True claims, eg. SPF rating

Children's nightwear and limited daywear



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Apparel - hazards

- Chemical treatments or dyes
- Flammability
- Physical hazards – especially in children's wear




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Apparel and chemicals

Few prescriptive substances

- Azo dyes
- Formaldehyde



European REACH system is the benchmark



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Work-wear?

Standards apply under OH&S rules

For example:

- Hi-vis
- Protective clothing



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Apparel and physical hazards

- Children's wear
- Buttons and studs
- Cords
- Metal parts/trims



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National Retail Association

Children's Apparel and Accessory Guidelines




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Conclusion

- Standards are helpful, but not the only answer
- Range of ways to identify hazards
- Guidance available on how to manage hazards



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Thanks for participating

Please take a moment now to note down at least one thing you will do to make your products safer.



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