

International Association for Soaps, Detergents and Maintenance Products

Safe use of Liquid Laundry Detergent Capsules in Europe





Implementation of Regulation (EU) 1297/2014 and voluntary industry initiatives

Enforcement Forum, 5 November 2015 Sylvie Lemoine

A.I.S.E. aisbl • Boulevard du Souverain 165 • 1160 Brussels • Belgium

CONTENT



1. Context

- 2. A.I.S.E. Product Stewardship Programmes (PSP)
- 3. CLP measures (Regulation (EU) No 1297/2014): A.I.S.E. implementation guidelines

4. Other developments

- Accidentology findings
- US developments
- 5. Looking ahead



Liquid Laundry Detergent Capsules

Product attributes



- >10 years on the market, but new in several countries
- Convenient for consumers (easy and correct dosing)
- Sustainability benefits : optimal use of resources & packaging
- Increasing demand for these products

Whilst liquid laundry detergent capsules are safe when used and stored as instructed, it is important to:

- store them in a safe place before and after use
- and always keep them out of reach of children

Issue: incidents



Accidental ingestion, mainly by young children:

- Occasionally when introduced in 2001, but incident frequency found higher as market grew (e.g. IT 5x more)
- Authorities alarmed in summer 2012 by media and PCCs

Skin or eye exposure when liquid laundry detergent capsules are pierced or squeezed with force

- Voluntary: A.I.S.E. Product Stewardship Programme (end 2012)
- Regulatory requirements under CLP as of June 2015
- Voluntary: second A.I.S.E. Product Stewardship Programme (March 2015)

A.I.S.E. Product Stewardship Programme launched end 2012



- Scope: all liquid laundry detergent and laundry additive capsules (European market)
- Combination of measures focused on safe use and storage
- Commitments on 3 pillars (close to 100% compliance)
 - Packaging improvements (limiting visibility and access)
 - Consumer information (on-pack, consumer education campaigns)
 - Engagement with PCCs (composition sharing, incident monitoring and accidentology about circumstances of incidents)

• All major companies committed to the PSP since 2013

• 6 multinationals covering most of the market







A.I.S.E. Product Stewardship Programme launched March 2015



- Scope: all liquid-containing detergent capsules ("LDC"), European market, "beyond CLP"
 - liquid detergent capsules (not only laundry)
 - non-hazardous liquid laundry detergent capsules
- 2012 PSP safe use and storage measures expanded to other products + building on CLP measures

Commitments on 4 pillars

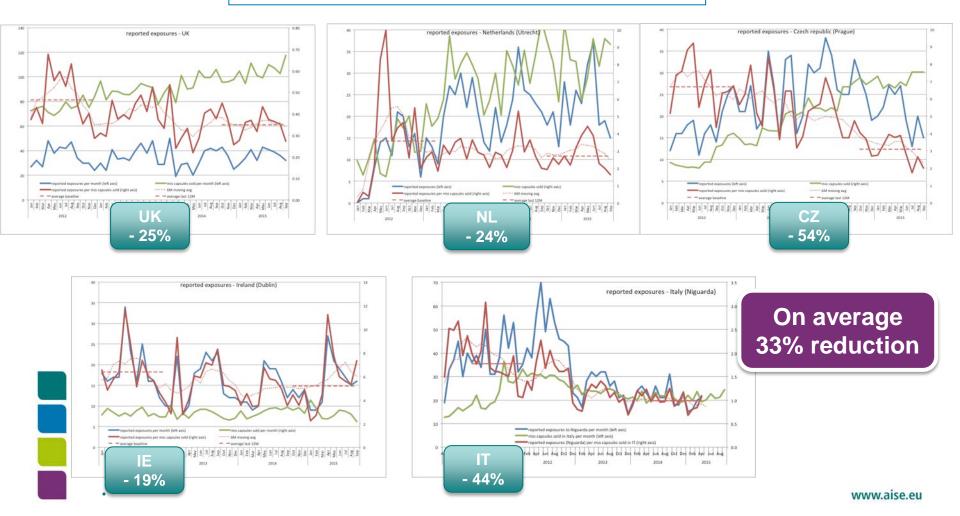
- Packaging improvements (limiting visibility and access)
- Prevent Liquid Detergent Capsules from bursting when gripped by children (resistance to 300N compression)
- Consumer information (on-pack, consumer education campaigns)
- Pursue PCC engagement (accidentology)

• Phased implementation over 2015-2016

Poison Control Centre Data: overall reduction of incidents (Nov 2015 update)



- Monthly data from 5 countries
- Nb of incidents normalised for market size (per million caps)
- Comparison on annual basis (avoid seasonality)



Commission Regulation (EU) No 1297/2014 Overview



Type of measure	Requirement
Outer packaging	 Impede capsule visibility: opaque or obscure Self-standing, easily reclosable container Impedes opening by children (coordinated action of both hands with a strength)
Labelling	P statement P102 visible, attention-grabing format
Aversive agent (soluble packaging)	• Safe aversive agent, elicit oral repulsion in max 6 s.
Pouch integrity (soluble packaging)	 In water (20°C), retains detergent liquid for ≥ 30 s. Mechanical resistance to compression strength of at least 300N

Transition period: until 31 December 2015 for products placed on the market before 1 June 2015

Outer Packaging – visibility of content



opaque or obscure *de facto* equivalent to existing PSP





Outer Packaging – Child Impeding



Design criteria (CLP)

coordination of two hands + strength

"Performance" criteria (CLP)

- easy to reclose
- entire life span



No existing performance standard for 'child-impedingness'

- ISO 8317 CRC not required (if not needed because of classification)
- Further work by A.I.S.E. under consideration

Critical to get packaging re-design right the first time

 2 years of R&D + manufacturing capability work for new packaging to reach shelves !

Outer Packaging – Labelling



P102 visible + attracting attention

- P102 in CLP label to be emphasised (e.g. **contrasting**, **bold**, CAPS)
- Repeat message on top or front of outer packaging,
 e.g. Safe use patch





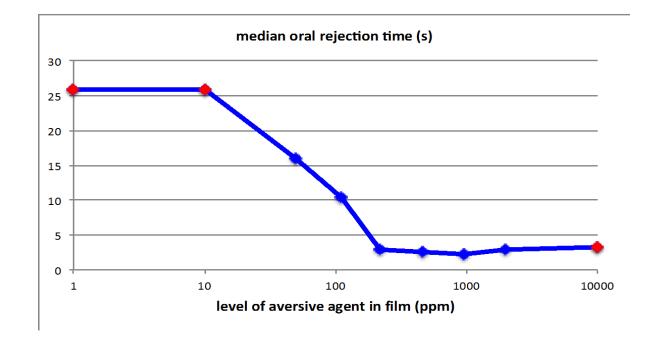
Capsule Film – Aversive Agent



Oral rejection in ≤ 6 seconds

Test protocol developed and evaluated Proof of concept: PVA + denatonium benzoate

- 220 ppm and higher: median rejection = 2.7 s
- statistics: <6 seconds with >95% confidence



Capsule Film Integrity

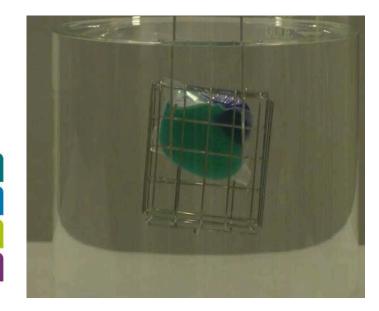


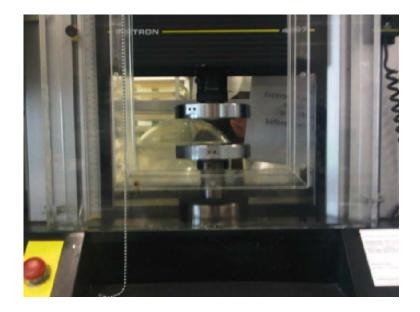
Retain content 30 seconds when placed in water at 20°C Resist compression of 300N

Containment: submersion test protocol

Compression: dynamometric test protocol

Standard conditions (incl sample conditioning)





Capsule Film Integrity



Recommended criteria

(for design and for enforcement):

85% success with 90% confidence level

Experimental design: 2 valid options

• 'attribute' pass/fail testing

(statistically determined how many failures are allowed for a given number of samples tested: at design stage only)

destructive testing

(determine distribution of actual containment time and compression strength)

'Accidentology' work with Poison Control Centers



Final report published on 2 November 2015

- PCCs + A.I.S.E.
- 6 months (4Q14-1Q15) ; 5 countries (IRL, NL, DE, CZ, IT)
- Detailed follow-up on circumstances
- 401 cases (Laundry 82% + ADW 16%)

Project continues, managed by EU Commission ('LiquiCaps')

'Accidentology' – key findings

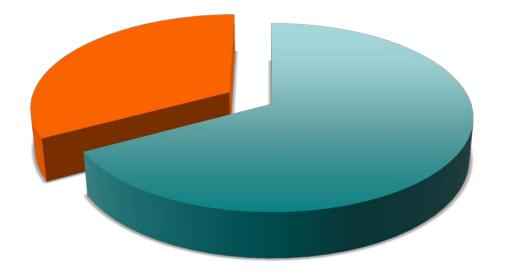


- Children < 3 (12-24 months): Ingestion in 92%(oral stage) + some eye exposures (squeezing)
- 66% of incidents with capsules or packs directly accessible to children
 - Capsule not in pack
 - Pack not safely stored
- 26% of cases: child opened the original packaging
- Not found to be determining factors
 - Type of packaging (plastic pouch vs box)
 - Different colours
- Laundry more often symptomatic, higher severity than ADW (but none of the 401 cases had severe symptoms)

Access to the capsule



(where relevant information is known)

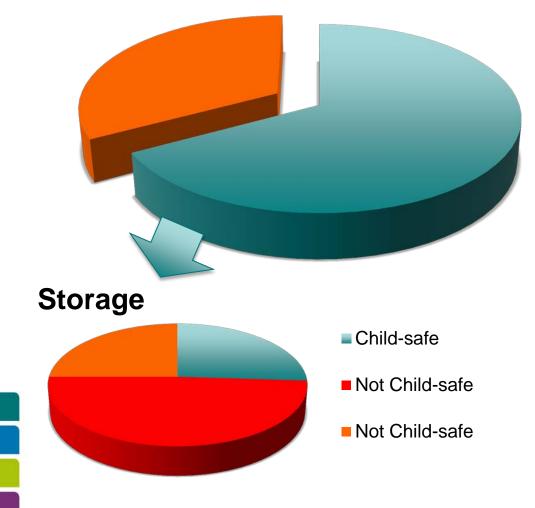


- Two-thirds taken from container
- One-third already outside of container

Access to the capsule



(where relevant information is known)

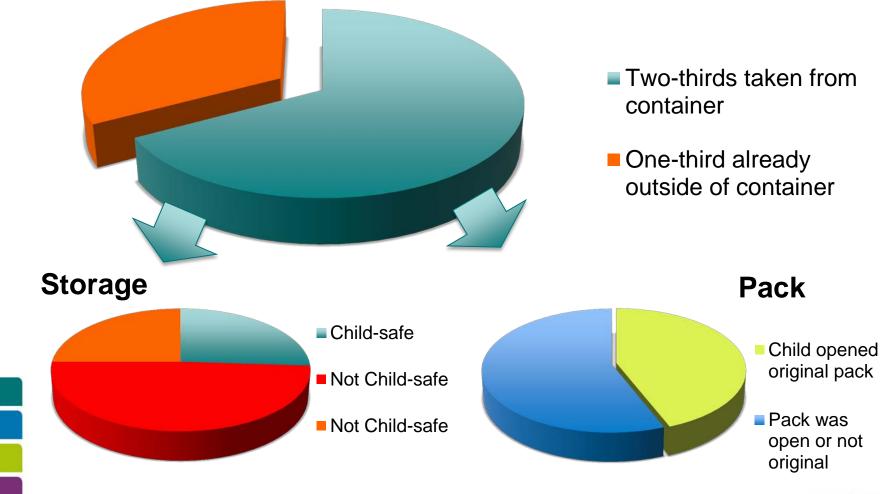


- Two-thirds taken from container
- One-third already outside of container

Access to the Capsule



(where relevant information is known)



PCC recommendations



- Improve child-impeding properties of packaging
- Sustain consumer education
- Further investigate child-attractiveness factors



Digital Education Campaign: Portal www.keepcapsfromkids.eu



Multilingual consumer **WEBSITE**

& « Cute Explorers » VIDEO

Twitter @KCFK_Campaign



. . .

Aprend the Word



how your support add the safe use signed to your profile. Share the comparys on Locabook, Twiller or Pinterest and earns signed to showyour support: A 🖸 🕲

() () ()



Make your friends aware of the campaign Sendan emet to other parents and caregivers.

Please help us to inform other parents and caregivers!

Comply print out the feedbal and distribute it at your offices, nursery or doctor's practices,



Download (10)

Partners Behind the campaign

"Keep Caps from Kids" pen-Liaropeen comparign is an initiative from ALLS, L., the international Association for Scopp, Detergents and Maintenance Products on behalf of the detergent unduality.

A.I.S.I., is supported by a broad network of Netronal Use of the second s Keep Capa Irom Kids^{*} is supported by.

Are you a partner? Download the campaign lootkit here.

> lawniaed a list of all Kompun

in land a livel of all



"Keep Caps from Kids" welcomes many partnerships from relaiters, suppliers and institutional a ganications

An initialized rom the detergent industry to promote the safe use of liquid laundry detergent capsules unitiurope.

or more information on the sale use of detergents and maintenance products visit clearinght.eu

CONTACT This Malpea Director General UK Cleaning Products Industry Association (UKCI 1) 1.107/1000/W21.1philip.melpeeldukcpi.org

Mandatory Safe Use measures on brand communication channels



Examples of implementation in print, online (brand website) & on TV (mandatory disclaimer)







Lessive super concentrée

Elle vous permet d'effectuer encore plus de lavages qu'un bouteille de lessive liquide classique. Un simple bouchon suffit pour laver efficacement votre linge et libérer durablement son parfum. Utiliser OMO Petit&Puissant 1L c'est aussi faire un geste pour l'environnement' : moins d'emballage, moins d'eau pour le fabriquer et moins de camions pour le transporter !

Comment l'utiliser ?

Versez le contenu d'un bouchon plein directement dans l bac à lessive pour un résultat optimum.

"par rapport à une bouteille OMO 2L, 26 lavages

Capsules

Elles contiennent la dose exacte de lessive pour laver votre linge et le parfumer durablement. Leur film transparent se dissout dès le début du cycle de lavage. Ainsi, vous lavez efficacement votre linge sans risque de surdosage.

Comment l'utiliser ?

Placez une bulle active OMO directement dans le tambour de votre machine.

Pour utiliser et stocker vos capsules en toute sécurité, cliquez ici.







Lessive en poudre OMO

Elle est idéale pour laver votre linge blanc grâce à ses agents de blanchiment. Elle convient également pour le linge coloré mais est déconseillée pour le linge délicat. Une dose de poudre libère toute l'efficacité nécessaire et parfume votre linge durablement.

Comment l'utiliser ?

Suivez les recommandations de dosage indiquées sur votre pack de poudre et versez directement la dose nécessaire de



US developments



ASTM F3159 Standard Safety Specification for Liquid Laundry Packets published 16 October 2015

http://www.astm.org/Standards/F3159.htm

- Reference to EU CLP measures incl. aversive agent + capsule integrity
- Packaging (opaque or equivalent), child-difficult closures (6 options)
- Special labelling/warning, prominent.

Tracking of quantitative reporting of accidental exposures with national PCC data Dialogue on innovations that might reduce accidental exposures



Conclusions



- Safe use of laundry detergent capsules is addressed by a mix of voluntary and regulatory measures
- A.I.S.E. has published guidelines to support sector-harmonised implementation of Regulation (EU) No 1297/2014

More work is under way

- New A.I.S.E. PSP progress report (by end November)
- 'LiquidCaps' Commission study
- A.I.S.E. will look into closures
- US developments
- In addition to technical measures, consumer education is key to secure the safe use of this (relatively new) type of product
- The detergent industry is committed to promoting safe use with various measures