Risk Assessment for RAPEX

General Information

Product				
Product name:	Children's cots and travel cots			
Product category:	Childcare articles			
Description:	This is a PROSAFE risk assessment template for children's cots and travel cots. It describes likely injury scenarios linked to non-conformity with the following clauses of standard EN 716-1:2008+A1:2013: §4.4.1.3 Detachable label §4.4.1.4 Accessible small parts §4.4.2.1 Openings between side bars too large §4.4.3 Head entrapment on the outside of the cot §4.4.5 Snag points §4.4.7.3 and §4.4.8.3 Distance between slats of the cot base §4.4.8.2 Sides too low §4.5 Final stability			
	How to use Users of the template should select the scenario(s) corresponding to the non-conformities identified for the product under assessment. All other scenarios can then be deleted. The probabilities are estimated in the remaining scenarios. The scenarios presented in the template are likely scenarios. Users should ensure that the scenarios are suitable, that the steps are correct and that the injury level is appropriate.			
	Disclaimer The template has been developed by a PROSAFE working group composed of market surveillance experts. The intention is to support market surveillance officials assessing the risk with a particular product as part of a market surveillance case. The template is not authorized or endorsed in any way and it is not binding for Member State market surveillance authorities. The contents of the original template is subject to change without notice.			
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Product risks - Overview

- Scenario 1 : **Risk to be determined** A baby is in the cot, unsupervised and playing. The cot has a detachable lable within the baby's reach. The baby pulls the label off. The baby puts the lable over the mouth and nose. This stops the oxygen flow temporarily.
- Scenario 2 : **Risk to be determined** A baby is in the cot, unsupervised and playing. The cot has small detachable parts within the baby's reach. The baby pulls off a small part. The baby puts the small parts in its mouth. The small part gets into the airways and blocks the oxygen flow.
- Scenario 3 : **Risk to be determined** A baby is in the cot, unsupervised and playing. The openings between the bars in the of the cot are too large. The baby puts an arm or a leg in between two bars and is trapped. The baby gets afraid and pulls itself backward and gets a dislocation of an ankle, wrist, shoulder or knee.
- Scenario 4 : **Risk to be determined** A baby is outside the cot without adult supervision. The baby puts its head into the pocket. The head gets trapped and the baby is unable to free itself. The baby is suffocated.
- Scenario 5 : **Risk to be determined** The child is in a cot with a snag point. The child wears clothing or cords around its neck (for instance a soother holder). The child leans over and the cord is entangled around the snag point. The child is incapable of raising its weight to release the pressure. The child is strangulated.
- Scenario 6 : **Risk to be determined -** A baby is in the cot, unsupervised and playing. The mechanical strength of the cot base is insufficient. The baby jumps up and down in the bed. The base breaks. The baby cuts itself on the proken slats.
- Scenario 7 : **Risk to be determined** A baby is in the cot, unsupervised and playing. The sides of the cot are too low. The baby wakes up, rises and wants to get out. The baby climbs over the side walls and falls down. The baby falls on its head and gets a skull fracture.
- Scenario 8 : **Risk to be determined** Child is inside an unstable travel cot. Child moves and leans over the cot side. The cot tips over. The child falls and hits head. The child is unconscious.

Overall risk :

Risk to be determined

Scenario 1 : Very young children - Product is impermeable to air

Product hazard

Hazard Group:	Size, shape and surface
Hazard Type:	Product is impermeable to air

Consumer

Consumer Type: Very young children - 0 to 36 months (Very vulnerable consumers)

How the hazard causes an injury to the consumer

Injury scenario: A baby is in the cot, unsupervised and playing. The cot has a detachable lable within the baby's reach. The baby pulls the label off. The baby puts the lable over the mouth and nose. This stops the oxygen flow temporarily.

Severity of Injury			
Injury:	Suf	focation / Strangulation	
Level:	3	Oxygen flow to brain blocked without permanent	
		consequences	

Probability of the steps to injury			
	Step(s) to Injury	Probability	
Step 1:	A baby is playing unsupervised in the cot that has a detachable lable within the baby's reach.	1	
Step 2:	The baby pulls the label off. (The probability depends upon the size, shape and location of the label and the force that is required to pull it off.)		
Step 3:	The baby puts the lable over the mouth and nose.		
Step 4:	This stops the oxygen flow temporarily. (The probability depends upon the size and flexibility of the label.)		

<u>Calculated probability:</u> <u>Overall probability:</u> <u>Risk of this scenario:</u>

Scenario 2 : Very young children - Product is or contains small part

Product hazard

Hazard Group:	Size, shape and surface
Hazard Type:	Product is or contains small part

Consumer

Consumer Type: Very young children - 0 to 36 months (Very vulnerable consumers)

How the hazard causes an injury to the consumer

Injury scenario: A baby is in the cot, unsupervised and playing. The cot has small detachable parts within the baby's reach. The baby pulls off a small part. The baby puts the small parts in its mouth. The small part gets into the airways and blocks the oxygen flow.

Severity of Injury

Injury:	Internal airway obstruction		
Level:	4	Oxygen flow to brain blocked with permanent consequences	

Probability of the steps to injury			
	Step(s) to Injury	Probability	
Step 1:	A baby is playing unsupervised in the cot that has small detachable parts within the baby's reach.	1	
Step 2:	The baby pulls off a small part. (The probability depends upon the shap and location of the small part as well as the force required to pull it off.)		
Step 3:	The baby puts the small parts in its mouth.		
Step 4:	The small part gets into the airways and blocks the oxygen flow. (The probability depends upon the size and shape of the small part.)		

<u>Calculated probability:</u> <u>Overall probability:</u> <u>Risk of this scenario:</u>

Scenario 3 : Very young children - Gap or opening between elements

Product hazard

Hazard Group:	Size, shape and surface
Hazard Type:	Gap or opening between elements

Consumer

Consumer Type: Very young children - 0 to 36 months (Very vulnerable consumers)

How the hazard causes an injury to the consumer

Injury scenario: A baby is in the cot, unsupervised and playing. The openings between the bars in the of the cot are too large. The baby puts an arm or a leg in between two bars and is trapped. The baby gets afraid and pulls itself backward and gets a dislocation of an ankle, wrist, shoulder or knee.

Severity of Injury

Injury:	Dislocation	
Level:	3 Ankle Wrist Shoulder Hip Knee Spine	

Probability of the steps to injury

Step(s) to Injury

Probability

1

- Step 1: A baby is playing unsupervised in the cot that has too wide openings between the bars.
- Step 2: The baby puts an arm or a leg in between two bars and is trapped. (The probability depends upon the actual distance.)
- Step 3: The baby gets afraid and pulls itself backward and gets a dislocation of an ankle, wrist, shoulder or knee. (Other injuries with other severities should be considered.)

<u>Calculated probability:</u> <u>Overall probability:</u> <u>Risk of this scenario:</u>

Scenario 4 : Very young children - Gap or opening between elements

Product hazard

Hazard Group:	Size, shape and surface
Hazard Type:	Gap or opening between elements

Consumer

Consumer Type: Very young children - 0 to 36 months (Very vulnerable consumers)

How the hazard causes an injury to the consumer

Injury scenario: A baby is outside the cot without adult supervision. The baby puts its head into the pocket. The head gets trapped and the baby is unable to free itself. The baby is suffocated.

Severity of Injury

Injury:	Suff	ocation / Strangulation
Level:	4	Fatal suffocation / strangulation

Probability of the steps to injury

	Step(s) to Injury	Probability
Step 1:	A baby is outside the cot without adult supervision.	
Step 2:	The baby puts its head into the pocket. The head gets trapped and the baby is unable to free itself. The baby is suffocated.	
Step 3:	The head gets trapped and the baby is unable to free itself.	
Step 4:	The baby is suffocated.	

<u>Calculated probability:</u> <u>Overall probability:</u> <u>Risk of this scenario:</u>

Scenario 5 : Very young children - Gap or opening between elements

Product hazard

Hazard Group:	Size, shape and surface
Hazard Type:	Gap or opening between elements

Consumer

Consumer Type: Very young children - 0 to 36 months (Very vulnerable consumers)

How the hazard causes an injury to the consumer

Injury scenario: The child is in a cot with a snag point. The child wears clothing or cords around its neck (for instance a soother holder). The child leans over and the cord is entangled around the snag point. The child is incapable of raising its weight to release the pressure. The child is strangulated.

Severity of Injury

Injury:	Suff	Socation / Strangulation
Level:	4	Fatal suffocation / strangulation

Probability of the steps to injury

	Step(s) to Injury	Probability
Step 1:	The child is in a cot with a snag point.	1
Step 2:	The child wears clothing or cords around its neck (for instance a soother holder).	
Step 3:	The child leans over and the cord is entangled around the snag point.	
Step 4:	The child is incapable of raising its weight to release the pressure.	
Step 5:	The child is strangulated.	

<u>Calculated probability:</u> <u>Overall probability:</u> <u>Risk of this scenario:</u>

Scenario 6 : Very young children - Sharp corner or point

Product hazard

Hazard Group:	Size, shape and surface
Hazard Type:	Sharp corner or point

Consumer

Consumer Type: Very young children - 0 to 36 months (Very vulnerable consumers)

How the hazard causes an injury to the consumer

Injury scenario: A baby is in the cot, unsupervised and playing. The mechanical strength of the cot base is insufficient. The baby jumps up and down in the bed. The base breaks. The baby cuts itself on the proken slats.

Severity of Inj	ury	
Injury:	Lac	eration, cut
Level:	2	External (deep) (>10cm long on body) (>5cm long on face) requiring stitches Tendon or into joint White of eye or Cornea

Probability of the steps to injury			
	Step(s) to Injury	Probability	
Step 1:	A baby is playing unsupervised in the cot that has a base with insufficient mechanical strength.	1	
Step 2:	The baby jumps up and down in the bed.		
Step 3:	The base breaks. (The probability depends upon the force required to break the cot base.)		
Step 4:	The baby cuts itself on the proken slats. (Other injuries are possible. The actual injury depends upon how the base breaks.)		

Calculated probability: Overall probability: Risk of this scenario:

To be determined To be determined Risk to be determined

Scenario 7 : Very young children - High position of user

Product hazard

Hazard Group:	Potential energy
Hazard Type:	High position of user

Consumer

Consumer Type: Very young children - 0 to 36 months (Very vulnerable consumers)

How the hazard causes an injury to the consumer

Injury scenario: A baby is in the cot, unsupervised and playing. The sides of the cot are too low. The baby wakes up, rises and wants to get out. The baby climbs over the side walls and falls down. The baby falls on its head and gets a skull fracture.

Severity of Injury

Injury:	Fracture
Level:	 3 Ankle Leg (femur and lower leg) Hip Thigh Skull Spine (minor compression fracture) Jaw (severe) Larynx Multiple rib fractures Blood or air in chest

Probability of the steps to injury

	Step(s) to Injury	Probability
Step 1:	A baby is playing unsupervised in the cot that has too low sides.	1
Step 2:	The baby wakes up, rises and wants to get out.	
Step 3:	The baby climbs over the side walls and falls down. (The probability depends upon the actual heigth of the side walls.)	
Step 4:	The baby falls on its head and gets a skull fracture. (Other injuries and injury levels are possible. It depends inter alia on the actual heigth of the cot.)	

Calculated probability:

To be determined

<u>Overall probability:</u> <u>Risk of this scenario:</u>

<u>To be determined</u> <u>Risk to be determined</u>

Scenario 8 : Very young children - Low mechanical stability

Product hazard

Hazard Group:	Potential energy
Hazard Type:	Low mechanical stability

Consumer

Consumer Type: Very young children - 0 to 36 months (Very vulnerable consumers)

How the hazard causes an injury to the consumer

Injury scenario: Child is inside an unstable travel cot. Child moves and leans over the cot side. The cot tips over. The child falls and hits head. The child is unconscious.

Severity of Injury			
Injury:	Con	cussion	
Level:	3	Prolonged unconsciousness	

Probability of the steps to injury

	Step(s) to Injury	Probability
Step 1:	Child is inside an unstable travel cot.	1
Step 2:	Child moves and leans over the cot side.	
Step 3:	The cot tips over.	
Step 4:	The child falls and hits head.	
Step 5:	The child is unconscious.	

Calculated probability: Overall probability: Risk of this scenario: