

Risk Assessment for RAPEX

General Information

Product

Product name: Child Care Articles

Product category: Safety Barriers

Description: This is a PROSAFE risk assessment template for child care articles - safety barriers. It describes likely accident scenarios linked to non-conformity with the following clauses of standard EN 1930:

§ 6.5: Entrapments hazards (see scenario 1)

§ 6.8: Choking and ingestion hazards (see scenario 2)

§ 6.10: Hazardous edges and points (see scenario 3)

§ 6.4: Opening and closing systems (see scenario 4)

§ 6.3: Gaps (see scenario 5)

How to use:

Users should select the scenario(s) that correspond to the non-compliances identified for the product under assessment. All other scenarios can then be deleted.

Users should ensure that the steps are correct and that the injury level is appropriate.

The probability assigned to each step should be determined according to the exact nature of the non-conformity concerned, as recorded in the test report.

Disclaimer:

The template has been developed by PROSAFE to help market surveillance officials to assess the risk(s) associated with the non-conformities of a particular product that has been checked and tested during a joint market surveillance action.

The template is not authorized or endorsed in any way and is not binding on national market surveillance authorities. The content of the original template is subject to change without notice.

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Product risks - Overview

- Scenario 1 : **Risk to be determined** - A child is playing close to the safety barrier. There is an opening on the safety barrier and child puts its finger into the opening. The finger gets trapped and parents notice the problem too late. The finger breaks.
- Scenario 2 : **Risk to be determined** - A child is playing close to the safety barrier which contains an easily detachable small part. A child picks up a detached small part from the safety barrier and puts the part into the mouth. Parents notice the problem too late, the part gets stuck in the larynx and blocks the airways.
- Scenario 3 : **Risk to be determined** - A child is playing close to the safety barrier which contains hazardous edges or points. While playing child loses its balance and comes into contact with dangerous points. Parents notice the problem too late and a child receives an injury.
- Scenario 4 : **Risk to be determined** - A child is playing close to the safety barrier at a stair. The safety barrier has a non compliant locking mechanism. The child makes an unintentional opening of the safety barrier and reaches the stairs. Parents notice it too late, the child falls down the stairs and brakes an arm.
- Scenario 5 : **Risk to be determined** - A child is playing close to the safety barrier. The openings between the bars are too large, the baby puts its head between two bars and is trapped. The baby gets affraid, pulls itself backward, falls down, hits his head and suffers concussion.

Overall risk :

Risk to be determined

Scenario 1 : 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 child is playing close to the safety barrier. There is an opening on the safety barrier and child puts its finger into the opening. The finger gets trapped and parents notice the problem too late. The finger breaks.

Severity of Injury

Injury: Crushing
 Level: 3 Extremities (fingers, toe, hand, foot)
 Elbow
 Ankle
 Wrist
 Forearm
 Leg
 Shoulder
 Trachea
 Larynx
 Pelvis

Probability of the steps to injury

	Step(s) to Injury	Probability
Step 1:	A child is playing close to the safety barrier.	1
Step 2:	The safety barrier contains non-compliant openings.	1
Step 3:	A child puts a finger into the hole.	
Step 4:	The finger gets trapped.	
Step 5:	A child becomes excited and tries to get the finger out of the opening.	
Step 6:	Parents notice the problem too late.	
Step 7:	The finger breaks.	

Calculated probability:

To be determined

Overall probability:

To be determined

Risk of this scenario:

Risk to be determined

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 child is playing close to the safety barrier which contains an easily detachable small part. A child picks up a detached small part from the safety barrier and puts the part into the mouth. Parents notice the problem too late, the part gets stuck in the larynx and blocks the airways.

Severity of Injury

Injury: Suffocation / 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 child is playing close to the safety barrier.	1
Step 2:	The safety barrier is non-compliant because it contains small parts which can be detached easily.	1
Step 3:	A child picks up a detached small part from the safety barrier.	
Step 4:	A child puts the part into the mouth.	
Step 5:	Parents notice the problem too late.	
Step 6:	The part gets stuck in the larynx and blocks the airways (the probability depends upon the shape and size of the part).	

Calculated probability:

To be determined

Overall probability:

To be determined

Risk of this scenario:

Risk to be determined

Scenario 3 : 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 child is playing close to the safety barrier which contains hazardous edges or points. While playing child loses its balance and comes into contact with dangerous points. Parents notice the problem too late and a child receives an injury.

Severity of Injury

Injury: Laceration, 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 child is playing close to the safety barrier.	1
Step 2:	The safety barrier contains hazardous edges or points.	1
Step 3:	A child loses its balance while playing and comes into contact with the sharp point.	
Step 4:	Parents notice the problem too late.	
Step 5:	A child receives a deep puncture wound (head / leg / hand).	

Calculated probability:

To be determined

Overall probability:

To be determined

Risk of this scenario:

Risk to be determined

Scenario 4 : 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 child is playing close to the safety barrier at a stair. The safety barrier has a non compliant locking mechanism. The child makes an unintentional opening of the safety barrier and reaches the stairs. Parents notice it too late, the child falls down the stairs and breaks an arm.

Severity of Injury

Injury: Crushing
Level: 3 Extremities (fingers, toe, hand, foot)
 Elbow
 Ankle
 Wrist
 Forearm
 Leg
 Shoulder
 Trachea
 Larynx
 Pelvis

Probability of the steps to injury

	Step(s) to Injury	Probability
Step 1:	A child is playing close to the safety barrier at a stair.	1
Step 2:	The safety barrier has a non-compliant locking mechanism.	1
Step 3:	The child makes an unintentional opening of the safety barrier.	
Step 4:	The child reach the stairs without anybody notice it.	
Step 5:	The child falls down the stairs.	
Step 6:	The child breaks an arm.	

Calculated probability:

To be determined

Overall probability:

To be determined

Risk of this scenario:

Risk to be determined

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: A child is playing close to the safety barrier. The openings between the bars are too large, the baby puts its head between two bars and is trapped. The baby gets affraid, pulls itself backward, falls down, hits his head and suffers concussion.

Severity of Injury

Injury: Concussion
 Level: 3 Prolonged unconsciousness

Probability of the steps to injury

	Step(s) to Injury	Probability
Step 1:	A child is playing close to the safety barrier.	1
Step 2:	The openings between the bars of the safety barriers are too wide.	1
Step 3:	The baby puts its head between two bars and is trapped.	
Step 4:	Parents notice the problem too late.	
Step 5:	The baby gets affraid and pulls itself forward.	
Step 6:	The baby falls down, hits its head and suffers concussion.	

Calculated probability:

To be determined

Overall probability:

To be determined

Risk of this scenario:

Risk to be determined