

1 | General information and overview

Product		Risk assessor	
Product name:	The Hawk Classic	Organisation:	Stopler Speedworks B.V.
Product category:		Country:	Netherlands
Description:	The Hawk Classic is a handlebar intended to be used at the olympics, world chapinionships etc in track cycling events in a velodrome. The first two revisions of this product have a proven tendency to develop hair cracks int he transition from stem interface to the base bar wing element.		

2 | Product risks - Overview

- Scenario 1 : Low risk - The handlebars sunddely cracks further and user is scared or loses controll of the bike
due to sudden drop in stiffness/resistance on one side of the handlebar. This would have to happen while someone else is riding above or below for there to be potential harm through a resulting crash.
- Scenario 2 : Medium risk - The handlebars sunddely cracks further and user is scared or loses controll of the bike
due to sudden drop in stiffness/resistance on one side of the handlebar. This would have to happen while someone else is riding above or below for there to be potential harm through a resulting crash.
- Scenario 3 : High risk - The handlebars sunddely cracks further and user is scared or loses controll of the bike
due to sudden drop in stiffness/resistance on one side of the handlebar. This would have to happen while someone else is riding above or below for there to be potential harm through a resulting crash.
- Scenario 4 : High risk - The handlebars sunddely cracks further and user is scared or loses controll of the bike
due to sudden drop in stiffness/resistance on one side of the handlebar. This would have to happen while someone else is riding above or below for there to be potential harm through a resulting crash.

Scenario 1 : Professional user - Low mechanical stability

1 | Product hazard

Hazard Group: Potential energy
Hazard Type: Low mechanical stability

2 | Consumer

User type: Professional user - Professional user - Used in track cycling competitions
3 |

3 | How the hazard causes harm to the consumer

Injury scenario: The handlebars suddenly cracks further and user is scared or loses control of the bike due to sudden drop in stiffness/resistance on one side of the handlebar. This would have to happen while someone else is riding above or below for there to be potential harm through a resulting crash.

4 | Severity of the harm

Injury: Bruising (abrasion/ contusion, swelling, oedema)
Level: 1

5 | Probability of the steps to injury

Step	Step(s) leading to harm	Probability
1	The Handlebar starts to crack	0.297246
2	Crack is not noticed and crack gets severe and causes rider to notice a sudden drop in handlebar side stiffness causing the need for a steering correction during a competition with other riders.	0.083
3	Just as this happens the rider happens to exert significant force on the handlebar while riding next to another rider causing a crash	0.2
4	Rider falls hard enough and in such a way skin is exposed resulting in superficial bruising	0.7

Calculated probability	Overall probability	Risk of this scenario
0.003454	> 1/1000	Low risk

Scenario 2 : Professional user - Low mechanical stability

1 | Product hazard

Hazard Group: Potential energy
Hazard Type: Low mechanical stability

2 | Consumer

User type: Professional user - Professional user - Used in track cycling competitions

3 | How the hazard causes harm to the consumer

Injury scenario: The handlebars suddenly cracks further and user is scared or loses control of the bike due to sudden drop in stiffness/resistance on one side of the handlebar. This would have to happen while someone else is riding above or below for there to be potential harm through a resulting crash.

4 | Severity of the harm

Injury: Bruising (abrasion/ contusion, swelling, oedema)
Level: 2

5 | Probability of the steps to injury

Step	Step(s) leading to harm	Probability
1	The Handlebar starts to crack	0.297246
2	for a steering correction during a competition with other riders.	0.083
3	on the handlebar while riding next to another rider causing a crash	0.2
4	Rider falls hard enough and in such a way skin is exposed resulting in major bruising	0.15

Calculated probability	Overall probability	Risk of this scenario
0.00074	> 1/10000	Medium risk

Scenario 3 : Professional user - Low mechanical stability

1 | Product hazard

Hazard Group: Potential energy
Hazard Type: Low mechanical stability

2 | Consumer

User type: Professional user - Professional user - Used in track cycling competitions

3 | How the hazard causes harm to the consumer

Injury scenario: The handlebars suddenly cracks further and user is scared or loses control of the bike due to sudden drop in stiffness/resistance on one side of the handlebar. This would have to happen while someone else is riding above or below for there to be potential harm through a resulting crash.

4 | Severity of the harm

Injury: Fracture
Level: 3

5 | Probability of the steps to injury

Step	Step(s) leading to harm	Probability
1	The Handlebar starts to crack	0.297246
2	for a steering correction during a competition with other riders.	0.083
3	on the handlebar while riding next to another rider causing a crash	0.2
4	Rider falls hard enough that the crash results in serious injury including a fracture	0.15

Calculated probability	Overall probability	Risk of this scenario
0.00074	> 1/10000	High risk

Scenario 4 : Professional user - Low mechanical stability

1 | Product hazard

Hazard Group: Potential energy
Hazard Type: Low mechanical stability

2 | Consumer

User type: Professional user - Professional user - Used in track cycling competitions

3 | How the hazard causes harm to the consumer

Injury scenario: The handlebars suddenly cracks further and user is scared or loses control of the bike due to sudden drop in stiffness/resistance on one side of the handlebar. This would have to happen while someone else is riding above or below for there to be potential harm through a resulting crash.

4 | Severity of the harm

Injury: Fracture
Level: 4

5 | Probability of the steps to injury

Step	Step(s) leading to harm	Probability
1	The Handlebar starts to crack	0.297246
2	for a steering correction during a competition with other riders.	0.083
3	on the handlebar while riding next to another rider causing a crash	0.2
4	Rider falls hard enough that the crash results in extreme injury	0.01

Calculated probability	Overall probability	Risk of this scenario
0.000049	> 1/100000	High risk