

Scenario 1**Application number:** 1, 2, 3, 4, 5, 6, 7, 9**Application:** Application of granular bait in packages less than or equal to 25 kg (≤ 25 kg)

Ingredient Biocidal product	TIER 1		TIER 2	
	potential inhalation [mg/m ³]	potential dermal [mg/day]	actual inhalation [mg/m ³]	actual dermal [mg/day]
<i>a.s. Brodifacoum</i>	7,516E-06	1,13E-02	not expected	4,73E-04

Scenario 2**Application number:** 1, 2, 3, 4, 5, 6, 7, 9**Application:** Application of granular bait in packages up to 10 kg (≤ 10 kg)

Ingredient Biocidal product	TIER 1		TIER 2	
	potential inhalation [mg/m ³]	potential dermal [mg/day]	actual inhalation [mg/m ³]	actual dermal [mg/day]
<i>a.s. Brodifacoum</i>	not expected	4,73E-03	not expected	4,73E-04

Scenario 3**Application number:** 1, 2, 3, 4, 5, 6, 7, 9**Application:** Application of granular bait in sachets

Ingredient Biocidal product	TIER 1		TIER 2	
	potential inhalation [mg/m ³]	potential dermal [mg/day]	actual inhalation [mg/m ³]	actual dermal [mg/day]
<i>a.s. Brodifacoum</i>	not expected	1,52E-03	not expected	1,52E-04

Application number: 1, 2, 3, 4, 5, 6, 7, 9
Application: Application of granular bait in packages less than or equal to 25 kg (≤ 25 kg)
Scenario 1

Ingredient biocidal product	TIER 1		TIER 2	
	potential inhalation [mg/m ³]	potential dermal [mg/day]	actual inhalation [mg/m ³]	actual dermal [mg/day]
a.s. Brodifacoum	0,00001	0,01127	not expected	0,00047
soc no.:				

Details of exposure assessment

formulation type	granular bait		factor	RMM
conc. a.s.	0,0025%	respiratory protection	1	no protection
		dermal protection (body)	10%	coverall (type 6)
number of decanting	5	dermal protection (hands)	10%	protective gloves
duration	15 min			

Indicative value (75th percentile) 1)	9,62 mg/m ³		
Duration	15 min		
Inhalative Exposure	144,30 mg/m ³		
Potential inhalative exposure (product) 8 h TWA	0,30063 mg/m ³		
Potential inhalation exposure a.s. 8 h TWA	0,00001 mg/m ³		
Application	not expected	Application	not expected
Post-Application	not expected	Post-Application	not expected
All phases		All phases	
Total potential inhalation exposure a.s. 8h TWA	0,00001 mg/m ³	Total actual inhalation exposure a.s. 8h TWA	not expected

DERMAL EXPOSURE	TIER 1	DERMAL EXPOSURE	TIER 2
Mixing&Loading		Mixing&Loading	not applicable, bucket size adjusted to 10kg
Indicative value (75th percentile) 1)	52,34 mg b.p. / manipulation		
Decanting	5 number of manipulations		
Potential hand exposure (product)	261,7 mg		
Potential hand exposure a.s.	0,00654 mg a.s.		
Application		Application	
Indicative value (75th percentile) 1)	2,04 mg b.p. / manipulation	Potential hand exposure a.s.	0,00321 mg a.s.
Bait stations loading 2)	63 number of manipulations	RMM: protective gloves	10%
Potential hand exposure (product)	128,52 mg	Actual hand exposure a.s.	0,00032 mg a.s.
Potential hand exposure a.s.	0,00321 mg a.s.		
Post-Application		Post-Application	
Indicative value (75th percentile) 1)	3,79 mg b.p. / manipulation	Potential hand exposure a.s.	0,00152 mg a.s.
Bait stations cleaning (20%) 2)	16 number of manipulations	RMM: protective gloves	10%
Potential hand exposure (product)	60,64 mg	Actual hand exposure a.s.	0,00015 mg a.s.
Potential hand exposure a.s.	0,00152 mg a.s.		
All phases		All phases	
Total potential dermal exposure all phases a.s.	0,01127 mg a.s.	Total actual dermal exposure all phases a.s.	0,00047 mg a.s.

1) Chambers study (2004)

2) HEEG opinion TM III/10

Application number: 1, 2, 3, 4, 5, 6, 7, 9
 Application: Application of granular bait in packages up to 10 kg (≤ 10 kg)
 Scenario 2

Ingredient biocidal product	TIER 1		TIER 2	
	potential inhalation [mg/m ³]	potential dermal [mg/day]	actual inhalation [mg/m ³]	actual dermal [mg/day]
a.s. Brodifacoum	not expected	0,00473	not expected	0,00047
soc no.:				

Details of exposure assessment

formulation type	granular bait		factor	RMM
conc. a.s.	0,0025%		1	no protection
		respiratory protection	10%	coverall (type 6)
		dermal protection (body)	10%	protective gloves
		dermal protection (hands)		

a.s.: Brodifacoum			
Application	not expected	Application	not expected
Post-Application	not expected	Post-Application	not expected
All phases	not expected	All phases	not expected
DERMAL EXPOSURE	TIER 1	DERMAL EXPOSURE	TIER 2
Mixing&Loading	not applicable	Mixing&Loading	not applicable
Application		Application	
Indicative value (75th percentile) 1)	2,04 mg b.p. / manipulation	Potential hand exposure a.s.	0,00321 mg a.s.
Bait stations loading 2)	63 number of manipulations	RMM: protective gloves	10%
Potential hand exposure (product)	128,52 mg	Actual hand exposure a.s.	0,00032 mg a.s.
Potential hand exposure a.s.	0,00321 mg a.s.		
Post-Application		Post-Application	
Indicative value (75th percentile) 1)	3,79 mg b.p. / manipulation	Potential hand exposure a.s.	0,00152 mg a.s.
Bait stations cleaning (20%) 2)	16 number of manipulations	RMM: protective gloves	10%
Potential hand exposure (product)	60,64 mg	Actual hand exposure a.s.	0,00015 mg a.s.
Potential hand exposure a.s.	0,00152 mg a.s.		
All phases		All phases	
Total potential dermal exposure all phases a.s.	0,00473 mg a.s.	Total actual dermal exposure all phases a.s.	0,00047 mg a.s.

1) Chambers study (2004)

2) HEEG opinion TM III/10

Application number: 1, 2, 3, 4, 5, 6, 7, 9
 Application: Application of granular bait in sachets
 Scenario 3

Ingredient biocidal product	TIER 1		TIER 2	
	potential inhalation [mg/m ³]	potential dermal [mg/day]	actual inhalation [mg/m ³]	actual dermal [mg/day]
a.s. Brodifacoum	not expected	0,00152	not expected	0,00015
soc no.:				

Details of exposure assessment

formulation type	granular bait		factor	RMM
conc. a.s. Brodifacoum	0,0025%		1	no protection
		respiratory protection	10%	coverall (type 6)
		dermal protection (body)	10%	protective gloves
		dermal protection (hands)		

a.s.: Brodifacoum			
Application	not applicable	Application	not applicable
Post-Application	not expected	Post-Application	not expected
All phases	not expected	All phases	not expected
DERMAL EXPOSURE	TIER 1	DERMAL EXPOSURE	TIER 2
Mixing&Loading	not applicable	Mixing&Loading	not applicable
Application	not applicable	Application	not applicable
Post-Application		Post-Application	
Indicative value (75th percentile) 1)	3,79 mg b.p. / manipulation	Potential hand exposure a.s.	0,00152 mg a.s.
Bait stations cleaning (20%) 2)	16 number of manipulations	RMM: protective gloves	10%
Potential hand exposure (product)	60,64 mg	Actual hand exposure a.s.	0,00015 mg a.s.
Potential hand exposure a.s.	0,00152 mg a.s.		
All phases		All phases	
Total potential dermal exposure all phases a.s.	0,00152 mg a.s.	Total actual dermal exposure all phases a.s.	0,00015 mg a.s.

1) Chambers study (2004)

2) HEEG opinion TM III/10