

Section 1

Industriel påføring af maling ved pensel, sprøjtepåføring eller dypning

Life Cycle Stage

End-use

Use Descriptors

SU

SU3 (Industrial)

PC

PROC(s)

PROC 1; PROC 8a; PROC 8b; PROC 5; PROC 10; PROC 7; PROC 13; PROC 4; PROC 15;

ERC

ERC4

Activities covered

Opbevaring af færdigvare på lager inden brug; Omhældning til mindre beholder; Omhældning til sprøjtebeholder; Fortynding med 2-me

Assessment methodology

Human: ECETOC; Environment: EUSES

LEV included in dermal exposure assessment:

N Aerosols to be accounted for: y

Section 2

Operational conditions and risk management measures

Section 2.1

Operational conditions and risk management measures

Name of contributing scenario	Process category	Physical state	Involved product	Conc. (wt%)	Duration (hours)	Ventilation	Reduction factor of ventilation (default)	Reduction factor of LEV/outdoor use (user specified)
Opbevaring af færdigvare på lager inden brug	PROC 1	Liquid	Supergod	100	8	Indoors	1	
Omhældning til mindre beholder	PROC 8a	Liquid	Supergod	100	8	Indoors with LEV	0.1	
Omhældning til sprøjtebeholder	PROC 8b	Liquid	Supergod	100	8	Indoors with LEV	0.05	
Fortynding med 2-methoxypropanol	PROC 5	Liquid	Supergod	100	8	Indoors with LEV	0.1	
Påførsel med pensel	PROC 10	Liquid	Supergod	100	8	Indoors with LEV	0.1	

Påførsel ved sprøjtning	PROC 7	Liquid	Supergod	100	8	Indoors with LEV	0.05	
Påførsel ved dypning o.l.	PROC 13	Liquid	Supergod	100	8	Indoors with LEV	0.1	
Tørring af emne i dedikeret rum med ekstra udsug	PROC 4	Liquid	Supergod	100	8	Indoors with enhanced general ventilation	0.3	
Kvalitetskontrol af produkt	PROC 15	Liquid	Supergod	100	8	Indoors with LEV	0.1	

Section 2.2

Control of environmental exposure

Product

Product	Supergod
Amount product (kg/a)	50000
No of emission days (d/a)	220
ERC	ERC4
RMM	
Reduction factor of RMM	
Calc. daily emission water (kg/d)	227.2727273
User spec. emission fraction to water	0.1
User spec. daily emission water (kg/d)	22.72727273
Calc. daily emission air (kg/d)	227.2727273
User spec. emission fraction to air	1
User spec. daily emission air (kg/d)	227.2727273

Section 3

Section 3.1

Exposure estimation

Human

Name of contributing scenario	Process category	critical substance (inhal)	critical substance (dermal)	critical substance (oral)	critical substance (eye)	Long-term Inhalative Exposure Estimate (mg/m3)	Long-term Dermal Exposure Estimate (mg/kg bw/day)	Short-term Inhalative Exposure Estimate (mg/m3)
Opbevaring af færdigvare på lager inden brug	PROC 1	Xylene	Xylene		Xylene	2.2E-02	1.1E-01	8.6E-02
Omhældning til mindre beholder	PROC 8a	Xylene	Xylene		Xylene	1.1E+01	4.6E+00	4.3E+01
Omhældning til sprøjtebeholder	PROC 8b	Xylene	Xylene		Xylene	2.7E+00	2.3E+00	1.1E+01
Fortynding med 2-methoxypropanol	PROC 5	Xylene	Xylene		Xylene	1.1E+01	4.6E+00	4.3E+01
Påførsel med pensel	PROC 10	Xylene	Xylene		Xylene	1.1E+01	9.1E+00	4.3E+01
Påførsel ved sprøjtning	PROC 7	Xylene	Xylene		Xylene	1.3E+00	1.4E+01	5.2E+00
Påførsel ved dypning o.l.	PROC 13	Xylene	Xylene		Xylene	1.1E+01	4.6E+00	4.3E+01
Tørring af emne i dedikeret rum med ekstra udsug	PROC 4	Xylene	Xylene		Xylene	1.3E+01	2.3E+00	5.2E+01
Kvalitetskontrol af produkt	PROC 15	Xylene	Xylene		Xylene	2.2E+00	1.1E-01	8.6E+00

Section 3.2

Environment

Product

Supergod

Critical substance

1,2,4-Trimethylbenzene

Emission to water (kg/d)

4.545454545

Emission to air(kg/d)

45.45454545

PNEC(fresh water) (mg/m3)

120

PNEC-(marine water) (mg/m3)

120

PNEC (sediment, fresh) mg/kg dw

13.56

PNEC (sediment, marine) mg/kg dw

13.56

PNEC (STP) (mg/m3)

2410

PNEC (soil) mg/kg dw	2.34
PEC(fresh water) (mg/m3)	48.74049914
PEC-(marine water) (mg/m3)	4.801263331
PEC (sediment, fresh water) mg/kg dw	0.120664523
PEC (sediment, marine water) mg/kg dw	0.005467679
PEC (STP) (mg/m3)	2272.727273
PEC (soil) mg/kg dw	0.00535418
RCR (fresh water)	0.41
RCR(marine water)	0.04
RCR (sediment, fresh water)	0.01
RCR (sediment, marine water)	0.00
RCR (STP)	0.94
RCR (soil)	0.00

Section 4

Guidance to check compliance with the Exposure Scenario

ES-Creator er anvendt til at frembringe dette konsoliderede eksponeringsscenario.

Section 5

thoxypropanol; Påførsel med pensel; Påførsel ved sprøjtning; Påførsel ved dypning o.l.; Tørring af emne i dedikeret rum med ekstra udsug; Kvalitetskontrol af produkt;

RMM (inhalation)	RMM, inhalation - reduction factor (default)	RMM, inhalation efficiency (user specified)	RMM (dermal)	RMM, dermal - efficiency (default)	RMM, dermal - efficiency (user specified)	RMM, eyes
			Special rubber or plastic, the barrier effect is not documented Discarded max 5 minutes after first contamination occurred	0.33		None
			Special rubber or plastic, the barrier effect is not documented Discarded max 5 minutes after first contamination occurred	0.33		Goggles
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			Special rubber or plastic, the barrier effect is not documented Discarded max 5 minutes after first contamination occurred	0.33		None
			Special rubber or plastic, the barrier effect is not documented Discarded max 5 minutes after first contamination occurred	0.33		Goggles

Short-term Dermal Exposure Estimate (mg/kg bw/day)	Long-term RCR Inhalation	Long-term RCR Dermal	Short-term RCR Inhalation	Short- term RCR Dermal	Rem: accountin g for aerosols:
6.9E-01	0.0	0.0	0.0	0.0	N
2.7E+01	0.1	0.0	0.1	0.0	N
1.4E+01	0.0	0.0	0.0	0.0	N
2.7E+01	0.1	0.0	0.1	0.0	N
5.5E+01	0.1	0.1	0.1	0.0	N
8.6E+01	0.0	0.1	0.0	0.0	Y
2.7E+01	0.1	0.0	0.1	0.0	N
1.4E+01	0.2	0.0	0.2	0.0	N
6.9E-01	0.0	0.0	0.0	0.0	N

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