



# **SAFETY DATA SHEET (1907/2006)**

**R0704399**

**Revision Date: 2018-06-28**

**Version: 1**

**Silipon RN 6031 D**

## **Annex: Exposure Scenarios**

### **Index**

- 1.** Formulation of mixtures (industrial, professional, consumer)  
SU10, SU19; ERC2; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC13, PROC14, PROC15
- 2.** End use (industrial, professional)  
SU3, SU9, SU12, SU11, SU19; ERC4; PROC1, PROC2, PROC4, PROC7, PROC10, PROC13, PROC14, PROC17, PROC24
- 3.** End use (industrial, professional)  
SU19; ERC5; PROC7, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC14
- 4.** End use (industrial, professional)  
SU3; ERC8a; PROC1, PROC2, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19
- 5.** End use (industrial, professional)  
SU22; ERC8b; PROC1, PROC8b
- 6.** End use (industrial, professional)  
SU19; ERC8c; PROC1, PROC2, PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC13, PROC14
- 7.** End use (industrial, professional)  
SU3, SU19; ERC8d; PROC8a, PROC8b, PROC10, PROC11, PROC13
- 8.** End use (industrial, professional)  
SU19; ERC8f; PROC8a, PROC10, PROC11, PROC13
- 9.** Service life of articles  
SU19; ERC10a; AC13
- 10.** Service life of articles  
SU19; ERC11a; AC13
- 11.** Consumer applications  
SU21; ERC8d; PC1, PC8, PC9a, PC9b
- 12.** Consumer applications  
SU21; ERC8f; PC1, PC9a, PC9b

\*\*\*\*\*

### 1. Short title of exposure scenario

Formulation of mixtures (industrial, professional, consumer)  
SU10, SU19; ERC2; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9,  
PROC13, PROC14, PROC15

### Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	AISE SPERC 2.1.a.v2: AISE SPERC 2.1.a.v2
<b>Operational conditions</b>	
Annual amount used in the EU	3,500,000 kg
Minimum emission days per year	250
Emission factor air	0 %
Emission factor water	0.01 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Wastewater treatment measures considered suitable are, e.g.	Precipitation, Coagulation, Must be eliminated from water by chemical flocculation.
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.027055
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	517,457.8 kg/d
Risk from environmental exposure is driven by marine water.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	COLIPA SPERC 2.1.a.v1: COLIPA SPERC 2.1.a.v1
<b>Operational conditions</b>	
Annual amount used in the EU	3,500,000 kg
Minimum emission days per year	220
Emission factor air	0 %
Emission factor water	0.1 %

Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.108062
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	147,222.2 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	EFCC SPERC 2.1c.v1: EFCC SPERC 2.1c.v1
<b>Operational conditions</b>	
Annual amount used in the EU	1,000,000 kg
Minimum emission days per year	220
Emission factor air	0 %
Emission factor water	0.5 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.147922
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	30,728.7 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC2: Formulation of preparations
<b>Operational conditions</b>	
Annual amount used in the EU	3,500,000 kg
Minimum emission days per year	340
Emission factor air	2.5 %
Emission factor water	0.002 %
Emission factor soil	0.01 %
	Values provided in per mill
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.02027
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	507,856.3 kg/d
Risk from environmental exposure is driven by marine water.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Use in closed process, no likelihood of exposure. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	

Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000008
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.12 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.000421
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
PROC1: Use in closed process, no domain: industrial	likelihood of exposure. <b>Use descriptors covered Use</b>
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000008
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.01 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.000035
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>
---------------------------------------

<b>Use descriptors covered</b>	PROC2: Use in closed, continuous process with occasional controlled exposure. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1.3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000338
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.017544
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Use in closed, continuous process with occasional controlled exposure. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	

Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1.3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000338
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	12 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.042105
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Use in closed, continuous process with occasional controlled exposure. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1.3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000338
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.003509
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Use in closed batch process (synthesis or formulation). Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic
Exposure estimate	0.6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000169
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.017544
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Use in closed batch process (synthesis or formulation). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor



<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000169
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	36 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.126316
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Use in closed batch process (synthesis or formulation). Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000169
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	36 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.126316

<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Use in closed batch process (synthesis or formulation). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000169
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.003509
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Use in closed batch process (synthesis or formulation). Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C

Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000169
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.017544
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.001689
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker

	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.210526
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.001689
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	25 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.087719
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %

Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003378
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	50 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.175439
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	

Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003378
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.210526
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	120 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.421053
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003378
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	25 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.087719
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C

Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	50 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.175439
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	



<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003378
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	120 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.421053
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003378
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	50 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.175439
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>

<b>Use descriptors covered</b>	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003378
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.210526
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week

Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	72 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.252632
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker

	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003378
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	25 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.087719
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	30 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.105263
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.001689
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	20 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.070175
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.001689
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.210526
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0686 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000017

Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	72 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.252632
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.001689
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	20 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.070175
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %

Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0686 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000017
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	12 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.042105
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	



Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003378
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	120 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.421053
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003378
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.017544
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	3.4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000844
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	10 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.035088
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	3.4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000844
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.210526
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	3.4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000844
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	10 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.035088
<b>Guidance to Downstream Users</b>	

For scaling see: <http://www.ecetoc.org/tra>

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.3429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000084
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.210526
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C

Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.3429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000084
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.210526
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.3429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000084
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic

Exposure estimate	5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.017544
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.3429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000084
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.017544
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

\*\*\*\*\*

## 2. Short title of exposure scenario

End use (industrial, professional)

SU3, SU9, SU12, SU11, SU19; ERC4; PROC1, PROC2, PROC4, PROC7, PROC10, PROC13, PROC14, PROC17, PROC24

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	AISE SPERC 4.1.v2: AISE SPERC 4.1.v2

<b>Operational conditions</b>	
Annual amount used in the EU	500,000 kg
Minimum emission days per year	220
Emission factor air	0 %
Emission factor water	100 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.320832
	Risk from environmental exposure is driven by wastewater treatment plant microbes.
Maximum amount of safe use	155.8 kg/d
Risk from environmental exposure is driven by wastewater treatment plant microbes.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	EFCC SPERC 4.1a.v1: EFCC SPERC 4.1a.v1
<b>Operational conditions</b>	
Annual amount used in the EU	3,500,000 kg
Minimum emission days per year	220
Emission factor air	98.5 %
Emission factor water	0 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP

Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.020408
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	98,003.1 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC4: Industrial use of processing aids in processes and products, not becoming part of articles
<b>Operational conditions</b>	
Annual amount used in the EU	3,500,000 kg
Minimum emission days per year	340
Emission factor air	2.5 %
Emission factor water	0.002 %
Emission factor soil	0.01 %
	Values provided in per mill
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100

<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.02027
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	507,856.3 kg/d
Risk from environmental exposure is driven by marine water.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Use in closed process, no likelihood of exposure. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %



Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000008
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	0.12 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.000421
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Use in closed process, no likelihood of exposure. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	

Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000008
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	0.01 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.000035
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Use in closed, continuous process with occasional controlled exposure.  Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	1.3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000338

Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	12 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.042105
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Use in closed, continuous process with occasional controlled exposure. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	1.3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000338
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	1 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.003509
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>
---------------------------------------

<b>Use descriptors covered</b>	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	6.8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.001689
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.210526
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C

Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	6.8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.001689
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	25 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.087719
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC7: Industrial spraying Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 95 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	

Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000106
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.210526
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC7: Industrial spraying Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 95 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000106
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic

Exposure estimate	5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.017544
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000068
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	120 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.421053
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: industrial

<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000068
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	10 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.035088
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
PROC13: Treatment of articles by domain: industrial	dipping and pouring. <b>Use descriptors covered</b> Use
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week



Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	120 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.421053
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	

Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.017544
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000008
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.210526
<b>Guidance to Downstream Users</b>	

For scaling see: <http://www.ecetoc.org/tra> Please note that a modified version has been used (see exposure estimates)

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000008
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	10 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.035088
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC17: Lubrication at high energy conditions and in partly open process. Use domain: industrial
<b>Operational conditions</b>	

Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally., The duration of activity has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000068
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	24 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.084211
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC17: Lubrication at high energy conditions and in partly open process. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa

Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally., The duration of activity has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000068
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.017544
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC24: High (mechanical) energy work-up of substances bound in materials and/or articles Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	

Local exhaust ventilation	Effectiveness: 100 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0283 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000007
Assessment method	Qualitative assessment
	Worker - inhalation
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

\*\*\*\*\*

### 3. Short title of exposure scenario

End use (industrial, professional)

SU19; ERC5; PROC7, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC14

### Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	EFCC SPERC 5.1a.v1: EFCC SPERC 5.1a.v1
<b>Operational conditions</b>	
Annual amount used in the EU	3,500,000 kg
Minimum emission days per year	220
Emission factor air	1.7 %
Emission factor water	0 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d

<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.020168
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	371,867.6 kg/d
Risk from environmental exposure is driven by marine water.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC7: Industrial spraying Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 95 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000106
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.210526
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>
---------------------------------------

<b>Use descriptors covered</b>	PROC7: Industrial spraying Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 95 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000106
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.017544
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities
	Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid



Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	180 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.631579
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	

Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	30 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.105263
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	

Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	36 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.126316
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	15 mg/m <sup>3</sup>

Risk Characterization Ratio (RCR)	0.052632
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000068
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	120 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.421053
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %

Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000068
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	210 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.736842
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %

Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000068
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	10 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.035088
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic

Exposure estimate	0.2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000068
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	7 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.024561
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 95 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	1.0714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000264
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.210526
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 95 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	1.0714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000264
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	10 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.035088
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid



Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	120 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.421053
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	

Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	120 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.421053
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker

	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.017544
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.017544
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. Use domain: industrial

<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000008
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.210526
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C

Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000008
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	10 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.035088
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

\*\*\*\*\*

#### 4. Short title of exposure scenario

End use (industrial, professional)

SU3; ERC8a; PROC1, PROC2, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19

#### Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	AISE SPERC 8a.1.b.v2: AISE SPERC 8a.1.b.v2
<b>Operational conditions</b>	
Annual amount used in the EU	3,500,000 kg
Minimum emission days per year	365
Emission factor air	0 %
Emission factor water	100 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18,000 m <sup>3</sup> /d

Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.023706
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	30.3 kg/d
Risk from environmental exposure is driven by marine water.	

<b>Contributing exposure scenario</b>	
	COLIPA SPERC 8a.1.a.v1: COLIPA SPERC 8a.1.a.v1
<b>Use descriptors covered</b>	
<b>Operational conditions</b>	
Annual amount used in the EU	3,500,000 kg
Minimum emission days per year	365
Emission factor air	0 %
Emission factor water	100 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.023706
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	30.3 kg/d

Risk from environmental exposure is driven by marine water.

<b>Contributing exposure scenario</b>
---------------------------------------

<b>Use descriptors covered</b>	EFCC SPERC 8A.1a.v1: EFCC SPERC 8A.1a.v1	
<b>Operational conditions</b>		
Annual amount used in the EU	3,500,000 kg	
Minimum emission days per year	365	
Emission factor air	98 %	
Emission factor water	1 %	
Emission factor soil	0 %	
Receive Surf. Water (Flow Rate).	18,000 m3/d	
Dilution factor river	10	
Dilution factor coast	100	
<b>Risk Management Measures</b>		
Type of STP	Municipal STP	
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d	
<b>Exposure estimate and reference to its source</b>		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment	
Risk Characterization Ratio (RCR)	0.020263	
	Risk from environmental exposure is driven by marine water.	
Maximum amount of safe use	94.6 kg/d	
Risk from environmental exposure is driven by marine water.		

<b>Contributing exposure scenario</b>		
<b>Use descriptors covered</b>	PROC1: Use in closed process, no likelihood of exposure. Use domain: professional	
<b>Operational conditions</b>		
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
<b>Risk Management Measures</b>		
Avoid skin contact.		
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.		

Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000008
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.12 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.000421
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Use in closed process, no likelihood of exposure. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000008
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.1 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.000351
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Use in closed, continuous process with occasional controlled exposure. Use domain: professional



<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic
Exposure estimate	1.3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000338
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.210526
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Use in closed, continuous process with occasional controlled exposure. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	

Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1.3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000338
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.017544
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0686 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000017
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker

	Worker - inhalation, long-term - systemic
Exposure estimate	120 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.421053
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0686 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000017
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	50 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.175439
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>
---------------------------------------

<b>Use descriptors covered non-</b>	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	50 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally., The duration of activity has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000004
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	31.25 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.109649
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities Use domain: professional
<b>Operational conditions</b>	

Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	50 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally., The duration of activity has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000004
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	5.2083 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.018275
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C

Duration and Frequency of activity	40 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally., The duration of activity has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0114 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000003
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	10 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.035088
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	40 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	

Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally., The duration of activity has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0114 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000003
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	4.1667 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.01462
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	120 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally., The duration of activity has been considered using a linear approach.

	Worker - dermal, long-term - systemic
Exposure estimate	0.0686 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000017
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	75 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.263158
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	27.4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.006756
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	210 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.736842
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: professional



<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	120 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally., The duration of activity has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0686 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000017
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	2.5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.008772
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa

Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	27.4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.006756
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	7 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.024561
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	40 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	

Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally., The duration of activity has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0893 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000022
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	100 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.350877
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 90 %
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	1.0714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000264

Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	84 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.294737
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	40 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally., The duration of activity has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0893 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000022
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	16.6667 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.05848
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>
---------------------------------------

<b>Use descriptors covered</b>	PROC11: Non industrial spraying Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 90 %
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	1.0714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000264
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	14 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.049123
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid

Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	120 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.421053
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	

Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.017544
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	

Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0034 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.210526
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0034 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.017544



<b>Guidance to Downstream Users</b>
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC19: Hand-mixing with intimate contact and only PPE available. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic
Exposure estimate	141.4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.034835
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic
Exposure estimate	210 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.736842
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC19: Hand-mixing with intimate contact and only PPE available. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness

Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	141.4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.034835
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	35 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.122807
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

\*\*\*\*\*

### 5. Short title of exposure scenario

End use (industrial, professional)  
SU22; ERC8b; PROC1, PROC8b

### Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	AISE SPERC 8a.1.a.v1: AISE SPERC 8a.1.a.v1
<b>Operational conditions</b>	
Annual amount used in the EU	3,500,000 kg
Minimum emission days per year	365
Emission factor air	0 %
Emission factor water	100 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18,000 m3/d

Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.023706
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	30.3 kg/d
Risk from environmental exposure is driven by marine water.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Use in closed process, no likelihood of exposure. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000008
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.12 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.000421
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Use in closed process, no likelihood of exposure. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000008
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.1 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.000351
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003378
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	84 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.294737
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker

	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003378
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	35 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.122807
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

\*\*\*\*\*

## 6. Short title of exposure scenario

End use (industrial, professional)

SU19; ERC8c; PROC1, PROC2, PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC13, PROC14

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	EFCC SPERC 8C.1a.v1: EFCC SPERC 8C.1a.v1
<b>Operational conditions</b>	
Annual amount used in the EU	3,500,000 kg
Minimum emission days per year	365
Emission factor air	0 %
Emission factor water	1 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18,000 m <sup>3</sup> /d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m <sup>3</sup> /d)	2,000 m <sup>3</sup> /d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.020263
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	94.6 kg/d
Risk from environmental exposure is driven by marine water.	

<b>Contributing exposure scenario</b>
---------------------------------------

<b>Use descriptors covered</b>	PROC1: Use in closed process, no likelihood of exposure. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000008
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic
Exposure estimate	0.12 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.000421
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Use in closed process, no likelihood of exposure. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	

Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000008
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.01 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.000035
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Use in closed, continuous process with occasional controlled exposure.
	Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1.3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000338
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	12 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.042105
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	



<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Use in closed, continuous process with occasional controlled exposure. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1.3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000338
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.003509
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week

Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.001689
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.210526
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.001689
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	25 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.087719

<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC7: Industrial spraying Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 95 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic
Exposure estimate	42.8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.010556
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.210526
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC7: Industrial spraying Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa

Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 95 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	42.8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.010556
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.017544
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered non-</b>	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker

	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003378
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	120 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.421053
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003378
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	50 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.175439
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: industrial

<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003378
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.210526
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	

Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003378
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	25 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.087719
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	27.4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.006756
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	120 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.421053
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>
---------------------------------------

<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	27.4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.006756
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	10 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.035088
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	



Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003378
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	120 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.421053
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
PROC13: Treatment of articles by domain: industrial	dipping and pouring. <b>Use descriptors covered Use</b>
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003378
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.017544
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>
---------------------------------------

<b>Use descriptors covered</b>	PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	3.4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000844
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.210526
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	

Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	3.4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000844
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	10 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.035088
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

\*\*\*\*\*

## 7. Short title of exposure scenario

End use (industrial, professional)

SU3, SU19; ERC8d; PROC8a, PROC8b, PROC10, PROC11, PROC13

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ECPA SPERC 8d.2.v2
<b>Operational conditions</b>	
Annual amount used in the EU	3,500,000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	0 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18,000 m <sup>3</sup> /d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m <sup>3</sup> /d)	2,000 m <sup>3</sup> /d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.020168

	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	95.1 kg/d
Risk from environmental exposure is driven by marine water.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	EFCC SPERC 8D.1a.v1: EFCC SPERC 8D.1a.v1
<b>Operational conditions</b>	
Annual amount used in the EU	3,500,000 kg
Minimum emission days per year	365
Emission factor air	98 %
Emission factor water	1 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.020263
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	94.6 kg/d
Risk from environmental exposure is driven by marine water.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa

Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	180 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.631579
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	

Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	30 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.105263
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003378
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	84 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.294737
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>
---------------------------------------

<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 90 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000068
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	30 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.105263
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa

Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 90 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000068
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.003509
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 95 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	



Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	1.0714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000264
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.210526
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 95 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	1.0714 mg/kg bw/day

Risk Characterization Ratio (RCR)	0.000264
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	10 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.035088
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	120 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.421053
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>
---------------------------------------

<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.017544
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

\*\*\*\*\*

### 8. Short title of exposure scenario

End use (industrial, professional)  
SU19; ERC8f; PROC8a, PROC10, PROC11, PROC13

### Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	EFCC SPERC 8F.1a.v1: EFCC SPERC 8F.1a.v1
<b>Operational conditions</b>	

Annual amount used in the EU	3,500,000 kg
Minimum emission days per year	365
Emission factor air	0 %
Emission factor water	1 %
Emission factor soil	3.7 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.020263
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	94.6 kg/d
Risk from environmental exposure is driven by marine water.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	

Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	180 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.631579
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic

Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	30 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.105263
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000068
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	210 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.736842
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>
---------------------------------------

<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000068
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	7 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.024561
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C

Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 95 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	1.0714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000264
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.210526
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 95 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %



Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	1.0714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000264
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	10 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.035088
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic

Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	120 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.421053
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.017544
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> Please note that a modified version has been used (see exposure estimates)	

\*\*\*\*\*

**9. Short title of exposure scenario**

Service life of articles  
 SU19; ERC10a; AC13

**Control of exposure and risk management measures**

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC10a: Wide dispersive outdoor use of long-life articles and materials with low release
<b>Operational conditions</b>	
Annual amount used in the EU	3,500,000 kg
Minimum emission days per year	365
Emission factor air	0.05 %
Emission factor water	3.2 %
Emission factor soil	3.2 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.02047
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	93.7 kg/d
Risk from environmental exposure is driven by marine water.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	AC13: Plastic articles
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C

Duration and Frequency of activity	Exposure duration: 8 min 12 uses per year
Room size	20 m3
Ventilation rate per hour	0.6
Exposed skin area	Half body surface (8750 cm <sup>2</sup> )
Uptake fraction dermal	100 %
	Amount per use 8,000 g Relevant for inhalative exposure estimates
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	0.9589 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000393
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - inhalation, long-term - systemic
Exposure estimate	4.5347 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.05335
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

\*\*\*\*\*

#### 10. Short title of exposure scenario

Service life of articles  
SU19; ERC11a; AC13

#### Control of exposure and risk management measures

##### Contributing exposure scenario

<b>Use descriptors covered</b>	ERC11a: Wide dispersive indoor use of long-life articles and materials with low release	
<b>Operational conditions</b>		
Annual amount used in the EU	3,500,000 kg	
Minimum emission days per year	365	
Emission factor air	0.05 %	
Emission factor water	0.05 %	
Emission factor soil	0 %	
Receive Surf. Water (Flow Rate).	18,000 m3/d	
Dilution factor river	10	
Dilution factor coast	100	
<b>Risk Management Measures</b>		
Type of STP	Municipal STP	
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d	
<b>Exposure estimate and reference to its source</b>		

Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.020173
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	95.1 kg/d
Risk from environmental exposure is driven by marine water.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	AC13: Plastic articles
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 8 min 12 uses per year
Room size	20 m3
Ventilation rate per hour	0.6
Exposed skin area	Half body surface (8750 cm <sup>2</sup> )
Uptake fraction dermal	100 %
	Amount per use 8,000 g Relevant for inhalative exposure estimates
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	0.9589 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000393
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - inhalation, long-term - systemic
Exposure estimate	4.5347 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.05335
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

\*\*\*\*\*

### 11. Short title of exposure scenario

Consumer applications  
SU21; ERC8d; PC1, PC8, PC9a, PC9b

### Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ECPA SPERC 8d.2.v2
<b>Operational conditions</b>	

Annual amount used in the EU	3,500,000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	0 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.020168
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	95.1 kg/d
Risk from environmental exposure is driven by marine water.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	EFCC SPERC 8D.1a.v1: EFCC SPERC 8D.1a.v1
<b>Operational conditions</b>	
Annual amount used in the EU	3,500,000 kg
Minimum emission days per year	365
Emission factor air	98 %
Emission factor water	1 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment

Risk Characterization Ratio (RCR)	0.020263
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	94.6 kg/d
Risk from environmental exposure is driven by marine water.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC1: Adhesives, Sealants
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 4 min 12 uses per year
Room size	20 m3
Ventilation rate per hour	0.6
Exposed skin area	Fingertips (36 cm2)
Uptake fraction dermal	100 %
	Amount per use 255 g Relevant for inhalative exposure estimates
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	0.0392 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000016
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - inhalation, long-term - systemic
Exposure estimate	20.9242 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.246167
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC8: Biocidal Products.
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.18 Pa

Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 240 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	9 uses per year Relevant for inhalative exposure estimates
Duration and Frequency of activity	9 uses per year Relevant for dermal exposure estimates
Room size	20 m3
Ventilation rate per hour	0.6
body weight	65 kg
Uptake fraction dermal	100 %
Spray duration	360 sec
Contact rate	100 mg/min
Release duration	6 min
	Relevant for dermal exposure estimates
<b>Risk Management Measures</b>	
Consumer Measures	Ensure spraying away from persons.
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ConsExpo v4.1, Dermal model: constant application rate, Uptake model: Uptake fraction
	Consumer - dermal, long-term - systemic
Exposure estimate	0.0455 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000019
	The calculation is based on the internal chronic dose.
Assessment method	EASY TRA v3.6, ConsExpo v4.1, Inhalation model: Exposure to spray/dust
	Consumer - inhalation, long-term - systemic
Exposure estimate	0.2668 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.003139
	The exposure calculation is based on the mean concentration per year.
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp">http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp</a>	

<b>Contributing exposure scenario</b>	
	PC9a: Coatings and paints, thinners, paint removers
<b>Use descriptors covered</b>	
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 0.33 min 12 uses per year
Room size	20 m3



Ventilation rate per hour	0.6
	Amount per use 300 g Relevant for inhalative exposure estimates
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - inhalation, long-term - systemic
Exposure estimate	20.9242 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.246167
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC9b: Fillers, putties, plasters, modelling clay
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate
	Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 2 min 12 uses per year
Room size	20 m <sup>3</sup>
Ventilation rate per hour	0.6
Exposed skin area	Both hands (820 cm <sup>2</sup> )
Uptake fraction dermal	100 %
	Amount per use 25,000 g Relevant for inhalative exposure estimates
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	0.9397 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000385
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - inhalation, long-term - systemic
Exposure estimate	20.9242 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.246167
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

\*\*\*\*\*

## 12. Short title of exposure scenario

Consumer applications  
SU21; ERC8f; PC1, PC9a, PC9b

## Control of exposure and risk management measures

Contributing exposure scenario

<b>Use descriptors covered</b>	EFCC SPERC 8F.1a.v1: EFCC SPERC 8F.1a.v1	
<b>Operational conditions</b>		
Annual amount used in the EU	3,500,000 kg	
Minimum emission days per year	365	
Emission factor air	0 %	
Emission factor water	1 %	
Emission factor soil	3.7 %	
Receive Surf. Water (Flow Rate).	18,000 m3/d	
Dilution factor river	10	
Dilution factor coast	100	
<b>Risk Management Measures</b>		
Type of STP	Municipal STP	
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d	
<b>Exposure estimate and reference to its source</b>		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment	
Risk Characterization Ratio (RCR)	0.020263	
	Risk from environmental exposure is driven by marine water.	
Maximum amount of safe use	94.6 kg/d	
Risk from environmental exposure is driven by marine water.		

<b>Contributing exposure scenario</b>		
<b>Use descriptors covered</b>	PC1: Adhesives, Sealants	
<b>Operational conditions</b>		
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 20 %	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	Exposure duration: 4 min 12 uses per year	
Room size	20 m3	
Ventilation rate per hour	0.6	
Exposed skin area	Fingertips (36 cm2)	
Uptake fraction dermal	100 %	
	Amount per use 255 g Relevant for inhalative exposure estimates	
<b>Exposure estimate and reference to its source</b>		

Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	0.0392 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000016
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - inhalation, long-term - systemic
Exposure estimate	20.9242 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.246167
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC9a: Coatings and paints, thinners, paint removers
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 0.33 min 12 uses per year
Room size	20 m3
Ventilation rate per hour	0.6
	Amount per use 300 g Relevant for inhalative exposure estimates
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - inhalation, long-term - systemic
Exposure estimate	20.9242 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.246167
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC9b: Fillers, putties, plasters, modelling clay
<b>Operational conditions</b>	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 2 min 12 uses per year
Room size	20 m3
Ventilation rate per hour	0.6
Exposed skin area	Both hands (820 cm <sup>2</sup> )

Uptake fraction dermal	100 %
	Amount per use 25,000 g Relevant for inhalative exposure estimates
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	0.9397 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000385
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - inhalation, long-term - systemic
Exposure estimate	20.9242 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.246167
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	