

Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 24.10.2016

Version: 4.1

Product: **Plantacare® 1200 UP**

(ID no. 30530216/SDS_GEN_GB/EN)

Date of print 19.03.2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Plantacare® 1200 UP

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: cosmetic ingredient, Consumer uses for cosmetic products are not considered in the scope of REACH (1907/2006, Art. 14).

For the detailed identified uses of the product see appendix of the safety data sheet.

1.3. Details of the supplier of the safety data sheet

Company:

BASF SE
67056 Ludwigshafen
GERMANY

Contact address:

BASF plc
PO Box 4, Earl Road, Cheadle Hulme,
Cheadle, Cheshire
SK8 6QG, UNITED KINGDOM

Telephone: +44 161 485-6222

E-mail address: product-safety-north@basf.com

1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

Skin Corr./Irrit. 2

Eye Dam./Irrit. 1

H318, H315

For the classifications not written out in full in this section the full text can be found in section 16.

2.2. Label elements

According to Regulation (EC) No 1272/2008 [CLP]

Pictogram:



Signal Word:

Danger

Hazard Statement:

H318 Causes serious eye damage.

H315 Causes skin irritation.

Precautionary Statements (Prevention):

P280 Wear protective gloves and eye/face protection.

P264 Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

According to Regulation (EC) No 1272/2008 [CLP]

Hazard determining component(s) for labelling: Alkylpolyglycoside C10-16

2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

No specific dangers known, if the regulations/notes for storage and handling are considered.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical nature

Aqueous solution based on: Alkylpolyglycoside C10-16 (even numbered)

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

D-Glucopyranose, oligomeric, C10-16-alkyl glycosides

Content (W/W): $\geq 40\%$ - $< 60\%$ Skin Corr./Irrit. 2

CAS Number: 110615-47-9 Eye Dam./Irrit. 1

REACH registration number: 01- H318, H315

2119489418-23

Specific concentration limit:

Eye Irrit. 1: $> 12\%$

Skin Corr./Irrit. 2: $> 30\%$

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

If adverse health effects develop seek medical attention.

If inhaled:
not relevant.

On skin contact:
After contact with skin, wash immediately with plenty of water. Change contaminated clothing and shoes.

On contact with eyes:
Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

On ingestion:
Rinse mouth and then drink 200-300 ml of water.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

Hazards: No hazard is expected under intended use and appropriate handling.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

SECTION 5: Fire-Fighting Measures**5.1. Extinguishing media**

Suitable extinguishing media:

water spray, carbon dioxide, dry powder, foam

5.2. Special hazards arising from the substance or mixture

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

5.3. Advice for fire-fighters

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

SECTION 6: Accidental Release Measures

High risk of slipping due to leakage/spillage of product.

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing.

6.2. Environmental precautions

Do not discharge into drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material.

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame.

7.2. Conditions for safe storage, including any incompatibilities

Suitable materials for containers: High density polyethylene (HDPE)

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

No occupational exposure limits known.

PNEC

Data refer to the dissolved main component

Components with PNEC

110615-47-9: D-Glucopyranose, oligomeric, C10-16-alkyl glycosides

freshwater: 0.176 mg/l

marine water: 0.018 mg/l

intermittent release: 0.0295 mg/l

STP: 5000 mg/l

sediment (freshwater): 1.516 mg/kg

sediment (marine water): 0.065 mg/kg

soil: 0.654 mg/kg

oral (secondary poisoning): 111.11 mg/kg

DNEL

Data refer to the dissolved main component

Components with DNEL

110615-47-9: D-Glucopyranose, oligomeric, C10-16-alkyl glycosides

worker: Long-term exposure- systemic effects, dermal: 595000 mg/kg
worker: Long-term exposure- systemic effects, Inhalation: 420 mg/m³
consumer: Long-term exposure- systemic effects, dermal: 357000 mg/kg
consumer: Long-term exposure- systemic effects, oral: 35.7 mg/kg
consumer: Long-term exposure- systemic effects, Inhalation: 124 mg/m³

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

Respiratory protection not required.

Hand protection:

Suitable are protective gloves with the following specification. The recommendation is valid for laboratory conditions, specific workplace conditions must be taken into consideration separately.

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):

nitrile rubber (NBR) - 0.4 mm coating thickness

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

For information regarding environmental exposure controls, see Section 6.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form:	liquid, viscous
Colour:	light yellow
Odour:	slight odour
Odour threshold:	
	not applicable
pH value:	12.5
Melting temperature:	< 0 °C
boiling temperature:	> 100 °C
	(1,013.200 hPa)
Flash point:	> 101 °C
	Aqueous preparation

Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.
Flammability:	not flammable
Flammability of Aerosol Products:	not applicable, the product does not form flammable aerosoles
Lower explosion limit:	For liquids not relevant for classification and labelling.
Upper explosion limit:	For liquids not relevant for classification and labelling.
Ignition temperature:	not applicable
Vapour pressure:	not determined
Density:	1.07 - 1.08 g/cm ³ (20 °C)
Relative vapour density (air):	not applicable
Solubility in water:	dispersible
Solubility (qualitative) solvent(s):	distilled water dispersible
Partitioning coefficient n-octanol/water (log Kow):	<= 0.07 (calculated)
Self ignition:	not applicable
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic:	not determined
Viscosity, kinematic:	not determined
Explosion hazard:	not explosive
Fire promoting properties:	not fire-propagating

9.2. Other information

Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section.

No further information available.

SECTION 10: Stability and Reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

None if used for intended purpose.

10.4. Conditions to avoid

See MSDS section 7 - Handling and storage.

10.5. Incompatible materials

Substances to avoid:

No substances known that should be avoided.

10.6. Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products known.

SECTION 11: Toxicological Information**11.1. Information on toxicological effects**Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single skin contact.

Virtually nontoxic after a single ingestion.

Experimental/calculated data:

LD50 rat (oral): > 5,000 mg/kg

LD50 rabbit (dermal): > 2,000 mg/kg (OECD Guideline 402)

Irritation

Assessment of irritating effects:

May cause severe damage to the eyes.

Skin contact causes irritation.

Experimental/calculated data:

Skin corrosion/irritation rabbit: Irritant. (OECD Guideline 404)

Serious eye damage/irritation rabbit: irreversible damage (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

Experimental/calculated data:

guinea pig: Non-sensitizing. (OECD Guideline 406)

Germ cell mutagenicity

Assessment of mutagenicity:

Results from a number of mutagenicity studies with microorganisms and mammalian cell culture are available. Taking into account all of the information, there is no indication that the substance is mutagenic.

Experimental/calculated data:

Ames-test

Bacteria: negative (OECD Guideline 471)

Carcinogenicity

Assessment of carcinogenicity:

The whole of the information assessable provides no indication of a carcinogenic effect.

Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity:

In animal studies the substance did not cause malformations.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

No adverse effects were observed after repeated oral exposure in animal studies.

Aspiration hazard

No aspiration hazard expected.

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity to fish:

LC50 > 1 - 10 mg/l, Brachydanio rerio (DIN EN ISO 7346-2)

Aquatic invertebrates:

EC50 > 10 - 100 mg/l, Daphnia magna (OECD Guideline 202, part 1)

Aquatic plants:

EC50 > 10 - 100 mg/l, Desmodemus subspicatus (Directive 88/302/EEC, part C, p. 89)

Microorganisms/Effect on activated sludge:

EC0 > 100 mg/l, Pseudomonas putida (DIN 38412 Part 8)

Chronic toxicity to fish:

No observed effect concentration > 1 - 10 mg/l, Brachydanio rerio (OECD Guideline 204)

Chronic toxicity to aquatic invertebrates:

No observed effect concentration > 1 - 10 mg/l, Daphnia magna (OECD Guideline 202, part 2)

12.2. Persistence and degradability

Assessment biodegradation and elimination (H2O):

Readily biodegradable (according to OECD criteria).

Elimination information:

(Annex III , part A) The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

No significant accumulation in organisms is expected as a result of the distribution coefficient of n-octanol/water (log Pow).

12.4. Mobility in soil

Assessment transport between environmental compartments:

Volatility: The substance will not evaporate into the atmosphere from the water surface.

Adsorption in soil: Adsorption to solid soil phase is not expected.

12.5. Results of PBT and vPvB assessment

According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance

fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Self classification

12.6. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments (United Kingdom)

SECTION 14: Transport Information

Land transport

ADR

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

RID

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Inland waterway transport

ADN

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	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Air transport

IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

14.1. UN number

See corresponding entries for "UN number" for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Regulation:	Not evaluated
Shipment approved:	Not evaluated
Pollution name:	Not evaluated
Pollution category:	Not evaluated
Ship Type:	Not evaluated

SECTION 15: Regulatory Information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

15.2. Chemical Safety Assessment

Chemical Safety Assessment performed

SECTION 16: Other Information

Information on intended use: This product is of industrial quality and unless otherwise specified or agreed intended exclusively for industrial use. This includes the mentioned and recommended usage. Any other intended applications should be discussed with the manufacturer. In particular this concerns the application for products that are the object of special standards and regulations.

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Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
Eye Irrit.	Serious eye irritation
H318	Causes serious eye damage.
H315	Causes skin irritation.

If you have any queries relating to this MSDS, its contents or any other product safety related questions, please write to the following e-mail address: product-safety-north@basf.com

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.

Annex: Exposure Scenarios

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15. Consumer applications

SU21; ERC8c; PC1, PC9a, PC9b

16. Consumer applications

SU21; ERC8a; PC3, PC8, PC9a, PC9b, PC9c, PC24, PC31, PC35, PC39

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SU21; ERC8e; PC12

20. Consumer applications

SU21; ERC8f; PC1, PC9a, PC9b

21. Consumer applications

SU21; ERC9a; PC24

22. Consumer applications

SU21; ERC9b; PC24

1. Short title of exposure scenario

Formulation of mixtures (industrial, professional, consumer)

SU10; ERC2; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC13, PROC14, PROC15

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	COLIPA SPERC 2.1.a.v1: COLIPA SPERC 2.1.a.v1
Operational conditions	
Annual amount used in the EU	12,000,000 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

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Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.22135
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	75,446 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	CEPE SPERC 2.1a.v1: CEPE SPERC 2.1a.v1
Operational conditions	
Annual amount used in the EU	1,000,000 kg
Minimum emission days per year	225
Emission factor air	0.6 %
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
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.025277
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	175,832.1 kg/d
Risk from environmental exposure is driven by marine sediment.	

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Contributing exposure scenario	
Use descriptors covered	ERC2: Formulation of preparations
Operational conditions	
Annual amount used in the EU	4,000,000 kg
Minimum emission days per year	300
Emission factor air	0.005 %
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
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.025277
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	527,496.3 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	ERC2: Formulation of preparations
Operational conditions	
Annual amount used in the EU	1,000,000 kg
Minimum emission days per year	340
Emission factor air	2.5 %
Emission factor water	0 %
Emission factor soil	0.01 %
Receive Surf. Water (Flow Rate).	18,000 m3/d

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Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.025284
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	11,632.8 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	EFCC SPERC 2.1c.v1: EFCC SPERC 2.1c.v1
Operational conditions	
Annual amount used in the EU	3,000,000 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
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.825795
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	16,513 kg/d
Risk from environmental exposure is driven by marine sediment.	

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Contributing exposure scenario	
Use descriptors covered	EFCC SPERC 2.1c.v1: EFCC SPERC 2.1c.v1
Operational conditions	
Annual amount used in the EU	3,000,000 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
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Risk Management Measures	
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Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	AISE SPERC 2.1.a.v1: AISE SPERC 2.1.a.v1
Operational conditions	
Annual amount used in the EU	9,000,000 kg
Minimum emission days per year	220
Emission factor air	0.02 %
Emission factor water	0.01 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18,000 m3/d

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Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.044884
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	372,070.2 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.145 mg/m ³
Risk Characterization Ratio (RCR)	0.000345
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC2: Use in closed, continuous process with occasional controlled exposure. Use domain: industrial

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Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	
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)	0.000002
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.45 mg/m ³
Risk Characterization Ratio (RCR)	0.003452
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC2: Use in closed, continuous process with occasional controlled exposure. Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	Solid, low dustiness
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
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)	0.000002
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic

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Exposure estimate	0.007 mg/m ³
Risk Characterization Ratio (RCR)	0.000017
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC3: Use in closed batch process (synthesis or formulation). Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.45 mg/m ³
Risk Characterization Ratio (RCR)	0.003452
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC3: Use in closed batch process (synthesis or formulation). Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	Solid, low dustiness
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.07 mg/m ³
Risk Characterization Ratio (RCR)	0.000167
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	
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)	0.000012
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.45 mg/m ³
Risk Characterization Ratio (RCR)	0.003452
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. Use domain: industrial
Operational conditions	

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Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Wear suitable respiratory protection.	Effectiveness: 90 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.0145 mg/m ³
Risk Characterization Ratio (RCR)	0.000035
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

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Exposure estimate and reference to its source	
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)	0.000023
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.45 mg/m ³
Risk Characterization Ratio (RCR)	0.003452
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	Solid, low dustiness
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
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)	0.000023
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.7 mg/m ³
Risk Characterization Ratio (RCR)	0.001667
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). Use domain: industrial
Operational conditions	

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Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Wear suitable respiratory protection.	Effectiveness: 90 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.0145 mg/m ³
Risk Characterization Ratio (RCR)	0.000035
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

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Exposure estimate and reference to its source	
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)	0.000023
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.45 mg/m ³
Risk Characterization Ratio (RCR)	0.003452
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 90 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.029 mg/m ³
Risk Characterization Ratio (RCR)	0.000069
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	
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)	0.000023
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.45 mg/m ³
Risk Characterization Ratio (RCR)	0.003452
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	

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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)	0.000012
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.45 mg/m ³
Risk Characterization Ratio (RCR)	0.003452
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	Solid, low dustiness
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
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)	0.000012
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.35 mg/m ³
Risk Characterization Ratio (RCR)	0.000833
Guidance to Downstream Users	
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Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid

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Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
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)	0.000023
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.015 mg/m ³
Risk Characterization Ratio (RCR)	0.002417
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
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)	0.000023
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.015 mg/m ³
Risk Characterization Ratio (RCR)	0.002417
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC14: Production of preparations or articles by

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	tableting, compression, extrusion, pelettisation. Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	
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)	0.000006
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.45 mg/m ³
Risk Characterization Ratio (RCR)	0.003452
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	Solid, low dustiness
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	
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)	0.000006

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Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.1 mg/m ³
Risk Characterization Ratio (RCR)	0.000238
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.45 mg/m ³
Risk Characterization Ratio (RCR)	0.003452
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

2. Short title of exposure scenario

End use (industrial, professional)

SU2b, SU3; ERC4; PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15, PROC17, PROC24

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	CEPE SPERC 4.1a.v1: CEPE SPERC 4.1a.v1
Operational conditions	
Annual amount used in the EU	1,000,000 kg

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Minimum emission days per year	225
Emission factor air	0.8 %
Emission factor water	2 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.260095
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	3,844.7 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	EFCC SPERC 4.1a.v1: EFCC SPERC 4.1a.v1
Operational conditions	
Annual amount used in the EU	9,000,000 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
Risk Management Measures	
Type of STP	Municipal STP

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Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.025277
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	79,124.4 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	AISE SPERC 4.1.v2: AISE SPERC 4.1.v2
Operational conditions	
Annual amount used in the EU	18,000,000 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
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.612323
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	81.7 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	ERC4: Industrial use of processing aids in processes and products, not becoming part of articles
Operational conditions	

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Annual amount used in the EU	4,000,000 kg
Minimum emission days per year	300
Emission factor air	0.005 %
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
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.025277
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	527,496.3 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	ERC4: Industrial use of processing aids in processes and products, not becoming part of articles
Operational conditions	
Annual amount used in the EU	100,000 kg
Minimum emission days per year	20
Emission factor air	100 %
Emission factor water	100 %
Emission factor soil	5 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100

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Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.994318
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	5,028.6 kg/d
Risk from environmental exposure is driven by marine water.	

Contributing exposure scenario	
Use descriptors covered	ERC4: Industrial use of processing aids in processes and products, not becoming part of articles
Operational conditions	
Annual amount used in the EU	100,000 kg
Minimum emission days per year	20
Emission factor air	100 %
Emission factor water	100 %
Emission factor soil	5 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.994318
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	5,028.6 kg/d
Risk from environmental exposure is driven by marine water.	

Contributing exposure scenario	
Use descriptors covered	ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

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Operational conditions	
Annual amount used in the EU	100,000 kg
Minimum emission days per year	20
Emission factor air	100 %
Emission factor water	100 %
Emission factor soil	5 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.994318
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	5,028.6 kg/d
Risk from environmental exposure is driven by marine water.	

Contributing exposure scenario	
Use descriptors covered	ERC4: Industrial use of processing aids in processes and products, not becoming part of articles
Operational conditions	
Annual amount used in the EU	100,000 kg
Minimum emission days per year	20
Emission factor air	100 %
Emission factor water	100 %
Emission factor soil	5 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100

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Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.994318
	Risk from environmental exposure is driven by marine water.
Maximum amount of safe use	5,028.6 kg/d
Risk from environmental exposure is driven by marine water.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	
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)	0.000001
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	0.145 mg/m ³
Risk Characterization Ratio (RCR)	0.000345
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC2: Use in closed, continuous process with occasional controlled exposure. Use domain: industrial

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Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	
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)	0.000002
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	1.45 mg/m ³
Risk Characterization Ratio (RCR)	0.003452
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC3: Use in closed batch process (synthesis or formulation). Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %

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Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.145 mg/m ³
Risk Characterization Ratio (RCR)	0.000345
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	
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)	0.000012
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	1.45 mg/m ³
Risk Characterization Ratio (RCR)	0.003452
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises.

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	Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Risk Management Measures	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Use suitable eye protection.	
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.015 mg/m ³
Risk Characterization Ratio (RCR)	0.002417
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

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Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.145 mg/m ³
Risk Characterization Ratio (RCR)	0.000345
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC7: Industrial spraying Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 95 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker

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	Worker - inhalation, long-term - systemic
Exposure estimate	72.5 mg/m ³
Risk Characterization Ratio (RCR)	0.172619
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.015 mg/m ³
Risk Characterization Ratio (RCR)	0.002417
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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

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Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.45 mg/m ³
Risk Characterization Ratio (RCR)	0.003452
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Outdoor

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Risk Management Measures	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Use suitable eye protection.	
Exposure estimate and reference to its source	
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)	0.000002
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.203 mg/m ³
Risk Characterization Ratio (RCR)	0.000483
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	
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)	0.000012
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.45 mg/m ³
Risk Characterization Ratio (RCR)	0.003452
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC10: Roller application or brushing Use domain: industrial

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Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	145 mg/m ³
Risk Characterization Ratio (RCR)	0.345238
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	

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Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.45 mg/m ³
Risk Characterization Ratio (RCR)	0.003452
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.45 mg/m ³

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Risk Characterization Ratio (RCR)	0.003452
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	40 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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	0.0003 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000001
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	0.1208 mg/m ³
Risk Characterization Ratio (RCR)	0.000288
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %

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Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Outdoor
Risk Management Measures	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Use suitable eye protection.	
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.203 mg/m ³
Risk Characterization Ratio (RCR)	0.000483
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC17: Lubrication at high energy conditions and in partly open process. Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified

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	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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	290 mg/m ³
Risk Characterization Ratio (RCR)	0.690476
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC24: High (mechanical) energy work-up of substances bound in materials and/or articles Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	Solid, low dustiness
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 80 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.2 mg/m ³
Risk Characterization Ratio (RCR)	0.000476
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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3. Short title of exposure scenario

End use (industrial, professional)

SU3; ERC5; PROC7, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC14

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	EFCC SPERC 5.1a.v1: EFCC SPERC 5.1a.v1
Operational conditions	
Annual amount used in the EU	6,000,000 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
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.025277
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	296,716.7 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	PROC7: Industrial spraying Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %

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Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 95 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	72.5 mg/m ³
Risk Characterization Ratio (RCR)	0.172619
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %

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Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.87 mg/m ³
Risk Characterization Ratio (RCR)	0.002071
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.87 mg/m ³
Risk Characterization Ratio (RCR)	0.002071
Guidance to Downstream Users	

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Contributing exposure scenario	
Use descriptors covered	PROC10: Roller application or brushing Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	145 mg/m ³
Risk Characterization Ratio (RCR)	0.345238
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC10: Roller application or brushing Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa

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Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	362.5 mg/m ³
Risk Characterization Ratio (RCR)	0.863095
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC11: Non industrial spraying Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 95 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.

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	Worker - dermal, long-term - systemic
Exposure estimate	1.0714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000002
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	72.5 mg/m ³
Risk Characterization Ratio (RCR)	0.172619
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.45 mg/m ³
Risk Characterization Ratio (RCR)	0.003452
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: professional

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Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.45 mg/m ³
Risk Characterization Ratio (RCR)	0.003452
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

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Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.45 mg/m ³
Risk Characterization Ratio (RCR)	0.003452
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

4. Short title of exposure scenario

End use (industrial, professional)

SU3; ERC7; PROC1, PROC2

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC7: Industrial use of substances in closed systems.
Operational conditions	
Annual amount used in the EU	1,000,000 kg
Minimum emission days per year	300
Emission factor air	0.005 %
Emission factor water	0 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18,000 m ³ /d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP

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Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.025277
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	131,874.1 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.1015 mg/m ³
Risk Characterization Ratio (RCR)	0.000242
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC2: Use in closed, continuous process with occasional controlled exposure. Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid

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Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
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)	0.000002
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.015 mg/m ³
Risk Characterization Ratio (RCR)	0.002417
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

5. Short title of exposure scenario

End use (industrial, professional)

SU22; ERC8a; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC17, PROC19

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	CEPE SPERC 8a.1a.v1: CEPE SPERC 8a.1a.v1
Operational conditions	
Annual amount used in the EU	2,000,000 kg
Minimum emission days per year	365
Emission factor air	99 %
Emission factor water	1 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18,000 m ³ /d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	

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Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.025864
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	193.3 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	AISE SPERC 8a.1.a.v1: AISE SPERC 8a.1.a.v1
Operational conditions	
Annual amount used in the EU	18,000,000 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
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.068702
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	53.8 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	ERC8a: Wide dispersive indoor use of processing aids in open systems

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Operational conditions	
Annual amount used in the EU	3,000,000 kg
Minimum emission days per year	365
Emission factor air	0 %
Emission factor water	0.001 %
Emission factor soil	0.001 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.025277
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	65 kg/d
Risk from environmental exposure is driven by marine sediment.	
Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic

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Exposure estimate	0.0343 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	0.145 mg/m ³
Risk Characterization Ratio (RCR)	0.000345
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC2: Use in closed, continuous process with occasional controlled exposure. Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	
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)	0.000002
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.45 mg/m ³
Risk Characterization Ratio (RCR)	0.003452
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC3: Use in closed batch process (synthesis or formulation). Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance	0.0077 Pa

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during use	
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 80 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.29 mg/m ³
Risk Characterization Ratio (RCR)	0.00069
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker

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	Worker - inhalation, long-term - systemic
Exposure estimate	1.45 mg/m ³
Risk Characterization Ratio (RCR)	0.003452
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 80 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.29 mg/m ³
Risk Characterization Ratio (RCR)	0.00069
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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

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	Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 80 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.29 mg/m ³
Risk Characterization Ratio (RCR)	0.00069
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week

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Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.87 mg/m ³
Risk Characterization Ratio (RCR)	0.002071
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	40 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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

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Risk Characterization Ratio (RCR)	0.000001
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	0.1208 mg/m ³
Risk Characterization Ratio (RCR)	0.000288
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC10: Roller application or brushing Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	
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)	0.000046
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	362.5 mg/m ³
Risk Characterization Ratio (RCR)	0.863095
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC11: Non industrial spraying Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance	0.0077 Pa

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during use	
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 80 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000002
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	290 mg/m ³
Risk Characterization Ratio (RCR)	0.690476
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC11: Non industrial spraying Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 90 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified

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	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)	0.000002
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	29 mg/m ³
Risk Characterization Ratio (RCR)	0.069048
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.45 mg/m ³
Risk Characterization Ratio (RCR)	0.003452
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario

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Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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	1.45 mg/m ³
Risk Characterization Ratio (RCR)	0.003452
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC17: Lubrication at high energy conditions and in partly open process. Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 90 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	72.5 mg/m ³
Risk Characterization Ratio (RCR)	0.172619
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC19: Hand-mixing with intimate contact and only PPE available. Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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	1.4143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000002

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Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	362.5 mg/m ³
Risk Characterization Ratio (RCR)	0.863095
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

6. Short title of exposure scenario

End use (industrial, professional)

SU22; ERC8b; PROC1, PROC8b

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8b: Wide dispersive indoor use of reactive substances in open systems
Operational conditions	
Annual amount used in the EU	2,000,000 kg
Minimum emission days per year	365
Emission factor air	0.1 %
Emission factor water	2 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18,000 m ³ /d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.039795
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	27.5 kg/d
Risk from environmental exposure is driven by marine sediment.	

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Contributing exposure scenario	
Use descriptors covered	AISE SPERC 8a.1.a.v1: AISE SPERC 8a.1.a.v1
Operational conditions	
Annual amount used in the EU	4,000,000 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
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.034927
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	23.5 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

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Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.145 mg/m ³
Risk Characterization Ratio (RCR)	0.000345
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
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)	0.000023
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.015 mg/m ³
Risk Characterization Ratio (RCR)	0.002417
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

7. Short title of exposure scenario

End use (industrial, professional)

SU22, SU1; ERC8d; PROC1, PROC2, PROC3, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC19

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Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8d: Wide dispersive outdoor use of processing aids in open systems
Operational conditions	
Annual amount used in the EU	1,500,000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	100 %
Emission factor soil	20 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.569717
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	1.4 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	EFCC SPERC 8D.1a.v1: EFCC SPERC 8D.1a.v1
Operational conditions	
Annual amount used in the EU	4,000,000 kg
Minimum emission days per year	365
Emission factor air	98 %
Emission factor water	1 %
Emission factor soil	0 %

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Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.039795
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	55.1 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	AISE SPERC 8a.1.a.v1: AISE SPERC 8a.1.a.v1
Operational conditions	
Annual amount used in the EU	4,000,000 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
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.034927
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	23.5 kg/d

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Risk from environmental exposure is driven by marine sediment.

Contributing exposure scenario	
Use descriptors covered	ERC8d: Wide dispersive outdoor use of processing aids in open systems
Operational conditions	
Annual amount used in the EU	2,000,000 kg
Minimum emission days per year	365
Emission factor air	0.005 %
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
Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.02528
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	43.3 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	ECPA SPERC 8d.2.v1: ECPA SPERC 8d.2.v1
Operational conditions	
Annual amount used in the EU	100,000 kg
Minimum emission days per year	365
Emission factor air	50 %
Emission factor water	0 %
Emission factor soil	50 %
Receive Surf. Water (Flow Rate).	18,000 m3/d

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Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.988636
	Risk from environmental exposure is driven by freshwater.
Maximum amount of safe use	0.1 kg/d
Risk from environmental exposure is driven by freshwater.	

Contributing exposure scenario	
Use descriptors covered	ECPA SPERC 8d.2.v1: ECPA SPERC 8d.2.v1
Operational conditions	
Annual amount used in the EU	100,000 kg
Minimum emission days per year	365
Emission factor air	50 %
Emission factor water	0 %
Emission factor soil	50 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.965909
	Risk from environmental exposure is driven by freshwater.
Maximum amount of safe use	0.1 kg/d
Risk from environmental exposure is driven by freshwater.	

Contributing exposure scenario	
Use descriptors covered	ECPA SPERC 8d.1.v1: ECPA SPERC 8d.1.v1

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Operational conditions	
Annual amount used in the EU	100,000 kg
Minimum emission days per year	365
Emission factor air	0 %
Emission factor water	0 %
Emission factor soil	100 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.986185
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	0.1 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	ECPA SPERC 8d.1.v1: ECPA SPERC 8d.1.v1
Operational conditions	
Annual amount used in the EU	100,000 kg
Minimum emission days per year	365
Emission factor air	0 %
Emission factor water	0 %
Emission factor soil	100 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	

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Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.986185
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	0.1 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.1015 mg/m ³
Risk Characterization Ratio (RCR)	0.000242
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC2: Use in closed, continuous process with occasional controlled exposure. Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance	0.0077 Pa

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during use	
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 80 %
Exposure estimate and reference to its source	
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)	0.000002
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.29 mg/m ³
Risk Characterization Ratio (RCR)	0.00069
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC3: Use in closed batch process (synthesis or formulation). Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.015 mg/m ³
Risk Characterization Ratio (RCR)	0.002417
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

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Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 80 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.29 mg/m ³
Risk Characterization Ratio (RCR)	0.00069
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance	0.0077 Pa

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during use	
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.015 mg/m ³
Risk Characterization Ratio (RCR)	0.002417
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves

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	has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 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	0.87 mg/m ³
Risk Characterization Ratio (RCR)	0.002071
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, Workplace measurements
	Worker - dermal, long-term - systemic
Exposure estimate	2.297 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000004
Assessment method	EASY TRA v3.6, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	0.142 mg/m ³
Risk Characterization Ratio (RCR)	0.000338

Contributing exposure scenario	
Use descriptors covered	PROC10: Roller application or brushing Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid

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Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 90 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	36.25 mg/m ³
Risk Characterization Ratio (RCR)	0.08631
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC11: Non industrial spraying Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 95 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	

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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)	0.000002
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	72.5 mg/m ³
Risk Characterization Ratio (RCR)	0.172619
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.45 mg/m ³
Risk Characterization Ratio (RCR)	0.003452
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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Contributing exposure scenario	
Use descriptors covered	PROC19: Hand-mixing with intimate contact and only PPE available. Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 80 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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	1.4143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000002
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.29 mg/m ³
Risk Characterization Ratio (RCR)	0.00069
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

8. Short title of exposure scenario

End use (industrial, professional)

SU22; ERC8e; PROC8a, PROC13

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8e: Wide dispersive outdoor use of reactive substances in open systems

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Operational conditions	
Annual amount used in the EU	5,000,000 kg
Minimum emission days per year	365
Emission factor air	0.1 %
Emission factor water	2 %
Emission factor soil	1 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.061573
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	44.5 kg/d
Risk from environmental exposure is driven by marine sediment.	
Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	Solid, low dustiness
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic

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Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000023
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.35 mg/m ³
Risk Characterization Ratio (RCR)	0.000833
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
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)	0.000023
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.015 mg/m ³
Risk Characterization Ratio (RCR)	0.002417
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance	0.0077 Pa

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during use	
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
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)	0.000023
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.015 mg/m ³
Risk Characterization Ratio (RCR)	0.002417
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

9. Short title of exposure scenario

End use (industrial, professional)

SU22; ERC8f; PROC8a, PROC10, PROC11, PROC13

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	EFCC SPERC 8F.1a.v1: EFCC SPERC 8F.1a.v1
Operational conditions	
Annual amount used in the EU	4,000,000 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
Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	

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Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.039795
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	55.1 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	CEPE SPERC 8f.2a.v1: CEPE SPERC 8f.2a.v1
Operational conditions	
Annual amount used in the EU	1,000,000 kg
Minimum emission days per year	225
Emission factor air	0 %
Emission factor water	1 %
Emission factor soil	0.5 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.190877
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	131 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %

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Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.87 mg/m ³
Risk Characterization Ratio (RCR)	0.002071
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC10: Roller application or brushing Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	

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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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	362.5 mg/m ³
Risk Characterization Ratio (RCR)	0.863095
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC11: Non industrial spraying Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 95 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000002
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	72.5 mg/m ³
Risk Characterization Ratio (RCR)	0.172619
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.45 mg/m ³
Risk Characterization Ratio (RCR)	0.003452
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

10. Short title of exposure scenario

End use (industrial, professional)

SU22; ERC9a; PROC1, PROC2, PROC8a, PROC8b, PROC20

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC9a: Wide dispersive indoor use of substances in closed systems
Operational conditions	

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Annual amount used in the EU	2,000,000 kg
Minimum emission days per year	365
Emission factor air	0.5 %
Emission factor water	0.05 %
Emission factor soil	0.01 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.025598
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	2,140.6 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day

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Risk Characterization Ratio (RCR)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.145 mg/m ³
Risk Characterization Ratio (RCR)	0.000345
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC2: Use in closed, continuous process with occasional controlled exposure. Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	
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)	0.000002
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.45 mg/m ³
Risk Characterization Ratio (RCR)	0.003452
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance	0.0077 Pa

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during use	
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.87 mg/m ³
Risk Characterization Ratio (RCR)	0.002071
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves

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	has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 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	0.87 mg/m ³
Risk Characterization Ratio (RCR)	0.002071
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC20: Heat and pressure transfer fluids in dispersive use but closed systems Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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	0.0171 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	0.87 mg/m ³
Risk Characterization Ratio (RCR)	0.002071
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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11. Short title of exposure scenario

End use (industrial, professional)

SU22; ERC9b; PROC1, PROC2, PROC8a, PROC8b, PROC20

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC9b: Wide dispersive outdoor use of substances in closed systems
Operational conditions	
Annual amount used in the EU	2,000,000 kg
Minimum emission days per year	365
Emission factor air	5 %
Emission factor water	5 %
Emission factor soil	5 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.061573
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	17.8 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	ERC9b: Wide dispersive outdoor use of substances in closed systems
Operational conditions	
Annual amount used in the EU	2,000,000 kg
Minimum emission days per year	365
Emission factor air	0.5 %

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Emission factor water	0.05 %
Emission factor soil	0.01 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.043425
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	1,261.8 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.1015 mg/m ³
Risk Characterization Ratio (RCR)	0.000242
Guidance to Downstream Users	

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

Contributing exposure scenario	
Use descriptors covered	PROC2: Use in closed, continuous process with occasional controlled exposure. Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
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)	0.000002
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.015 mg/m ³
Risk Characterization Ratio (RCR)	0.002417
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Outdoor

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Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.609 mg/m ³
Risk Characterization Ratio (RCR)	0.00145
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Outdoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker

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	Worker - inhalation, long-term - systemic
Exposure estimate	0.609 mg/m ³
Risk Characterization Ratio (RCR)	0.00145
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC20: Heat and pressure transfer fluids in dispersive use but closed systems Use domain: professional
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Outdoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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	0.0171 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	0.609 mg/m ³
Risk Characterization Ratio (RCR)	0.00145
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

12. Short title of exposure scenario

End use (industrial, professional)

SU3; ERC6a; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC15

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Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates)
Operational conditions	
Annual amount used in the EU	1,000,000 kg
Minimum emission days per year	300
Emission factor air	0.005 %
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
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.025472
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	130,861 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.145 mg/m ³
Risk Characterization Ratio (RCR)	0.000345
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC2: Use in closed, continuous process with occasional controlled exposure. Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	
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)	0.000002
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.45 mg/m ³
Risk Characterization Ratio (RCR)	0.003452
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC3: Use in closed batch process (synthesis or formulation). Use domain: industrial
Operational conditions	

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Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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	0.0069 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	0.145 mg/m ³
Risk Characterization Ratio (RCR)	0.000345
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	

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Wear suitable respiratory protection.	Effectiveness: 90 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.145 mg/m ³
Risk Characterization Ratio (RCR)	0.000345
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 90 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001

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Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.145 mg/m ³
Risk Characterization Ratio (RCR)	0.000345
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 90 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.029 mg/m ³
Risk Characterization Ratio (RCR)	0.000069
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at

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	dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.87 mg/m ³
Risk Characterization Ratio (RCR)	0.002071
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1.45 mg/m ³
Risk Characterization Ratio (RCR)	0.003452
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Exposure estimate and reference to its source	
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

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Exposure estimate	0.87 mg/m ³
Risk Characterization Ratio (RCR)	0.002071
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

13. Short title of exposure scenario

Service life of articles

SU21, SU22; ERC10a; AC13

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC10a: Wide dispersive outdoor use of long-life articles and materials with low release
Operational conditions	
Annual amount used in the EU	6,000,000 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 m ³ /d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.094965
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	34.6 kg/d
Risk from environmental exposure is driven by marine sediment.	
Contributing exposure scenario	
Use descriptors covered	AC13: Plastic articles

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Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 8 min 1 uses per day
Room size	20 m ³
Ventilation rate per hour	0.6
Exposed skin area	Half body surface (8750 cm ²)
Uptake fraction dermal	100 %
	Amount per use 8,000 g Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	29.1667 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000082
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - inhalation, long-term - systemic
Exposure estimate	13.7931 mg/m ³
Risk Characterization Ratio (RCR)	0.111235
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

14. Short title of exposure scenario

Service life of articles
SU22, SU21; ERC11a

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC11a: Wide dispersive indoor use of long-life articles and materials with low release
Operational conditions	
Annual amount used in the EU	6,000,000 kg
Minimum emission days per year	365
Emission factor air	0.05 %
Emission factor water	0.05 %

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Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.026366
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	124.7 kg/d
Risk from environmental exposure is driven by marine sediment.	

15. Short title of exposure scenario

Consumer applications

SU21; ERC8c; PC1, PC9a, PC9b

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	EFCC SPERC 8C.1a.v1: EFCC SPERC 8C.1a.v1
Operational conditions	
Annual amount used in the EU	5,000,000 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 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	

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Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.025598
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	107 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	PC1: Adhesives, Sealants
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.0077 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
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer, Inhalation model: Exposure to spray/dust
	Consumer - inhalation, long-term - systemic
Exposure estimate	24.6575 mg/m ³
Risk Characterization Ratio (RCR)	0.198851
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PC9a: Coatings and paints, thinners, paint removers
Operational conditions	

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Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 20\%$
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 0.33 min 2 uses per year
Room size	20 m ³
Ventilation rate per hour	0.6
	Amount per use 300 g Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer, Inhalation model: Exposure to spray/dust
	Consumer - inhalation, long-term - systemic
Exposure estimate	13.7215 mg/m ³
Risk Characterization Ratio (RCR)	0.110657
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PC9b: Fillers, putties, plasters, modelling clay
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 20\%$
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 2 min 1 uses per day
Room size	20 m ³
Ventilation rate per hour	0.6
Exposed skin area	Both hands (820 cm ²)
Uptake fraction dermal	100 %
	Amount per use 25,000 g Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	28.5833 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.00008
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - inhalation, long-term - systemic

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Exposure estimate	113.6364 mg/m ³
Risk Characterization Ratio (RCR)	0.916422
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

16. Short title of exposure scenario

Consumer applications

SU21; ERC8a; PC3, PC8, PC9a, PC9b, PC9c, PC24, PC31, PC35, PC39

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	COLIPA SPERC 8a.1.a.v1: COLIPA SPERC 8a.1.a.v1
Operational conditions	
Annual amount used in the EU	12,000,000 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 ³ /d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m ³ /d)	2,000 m ³ /d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.054227
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	45.5 kg/d
Risk from environmental exposure is driven by marine sediment.	
Contributing exposure scenario	
Use descriptors covered	CEPE SPERC 8a.1a.v1: CEPE SPERC 8a.1a.v1

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Operational conditions	
Annual amount used in the EU	2,000,000 kg
Minimum emission days per year	365
Emission factor air	99 %
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
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.025864
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	193.3 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	AISE SPERC 8a.1.a.v1: AISE SPERC 8a.1.a.v1
Operational conditions	
Annual amount used in the EU	18,000,000 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

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Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.068702
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	53.8 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	ERC8a: Wide dispersive indoor use of processing aids in open systems
Operational conditions	
Annual amount used in the EU	3,000,000 kg
Minimum emission days per year	365
Emission factor air	0 %
Emission factor water	0.001 %
Emission factor soil	0.001 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.025277
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	65 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	PC3: Air care products.

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Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 0.25 min 416 uses per year
Room size	20 m ³
Ventilation rate per hour	0.6
	Amount per use 10 g Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - inhalation, long-term - systemic
Exposure estimate	99.1066 mg/m ³
Risk Characterization Ratio (RCR)	0.799247
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PC3: Air care products.
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 8 min 1 uses per day
Room size	20 m ³
Ventilation rate per hour	0.6
Exposed skin area	Fingertips (36 cm ²)
Uptake fraction dermal	100 %
	Amount per use 50 g Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	0.1191 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer

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	Consumer - inhalation, long-term - systemic
Exposure estimate	0.0862 mg/m ³
Risk Characterization Ratio (RCR)	0.000695
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PC8: Biocidal Products. In accordance to the Article 15 (2) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation needs not to be performed for end uses in biocidal products within the scope of Regulation (EU) 528/2012.
Operational conditions	
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C

Contributing exposure scenario	
Use descriptors covered	PC9a: Coatings and paints, thinners, paint removers
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 2.2 min 1 uses per day
Room size	20 m ³
Ventilation rate per hour	0.6
Exposed skin area	Palm of both hands (480 cm ²)
Uptake fraction dermal	100 %
	Amount per use 3,750 g Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	14.2917 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.00004
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - inhalation, long-term - systemic
Exposure estimate	16.1638 mg/m ³
Risk Characterization Ratio (RCR)	0.130353

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Guidance to Downstream UsersFor scaling see: <http://www.ecetoc.org/tra>**Contributing exposure scenario**

Use descriptors covered	PC9a: Coatings and paints, thinners, paint removers
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 20\%$
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 0.33 min 1 uses per year
Room size	20 m ³
Ventilation rate per hour	0.6
	Amount per use 300 g Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer, Inhalation model: Exposure to spray/dust
	Consumer - inhalation, long-term - systemic
Exposure estimate	6.8607 mg/m ³
Risk Characterization Ratio (RCR)	0.055329
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario

Use descriptors covered	PC9b: Fillers, putties, plasters, modelling clay
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 20\%$
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 2 min 1 uses per day
Room size	20 m ³
Ventilation rate per hour	0.6
Exposed skin area	Both hands (820 cm ²)
Uptake fraction dermal	100 %
	Amount per use 25,000 g Relevant for inhalative exposure estimates

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Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	28.5833 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.00008
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - inhalation, long-term - systemic
Exposure estimate	113.6364 mg/m ³
Risk Characterization Ratio (RCR)	0.916422
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PC9c: Finger paints
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Exposed skin area	Both hands (820 cm ²)
Uptake fraction dermal	100 %
Uptake fraction oral	100 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	50.88 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000143
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - oral, long-term - systemic
Exposure estimate	27 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.756303
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PC24: Lubricants, Greases and Release Products
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.0077 Pa

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Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 4 min 1 uses per day
Room size	20 m ³
Ventilation rate per hour	0.6
Exposed skin area	Both hands (820 cm ²)
Uptake fraction dermal	100 %
	Amount per use 5,000 g Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	28.5833 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.00008
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - inhalation, long-term - systemic
Exposure estimate	14.7059 mg/m ³
Risk Characterization Ratio (RCR)	0.118596
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PC31: Polishes and Wax Blends.
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 4 min 1 uses per day
Room size	20 m ³
Ventilation rate per hour	0.6
Exposed skin area	Both hands (820 cm ²)
Uptake fraction dermal	100 %
	Amount per use 550 g Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	28.5833 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.00008
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer

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	Consumer - inhalation, long-term - systemic
Exposure estimate	1.6176 mg/m ³
Risk Characterization Ratio (RCR)	0.013046
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PC31: Polishes and Wax Blends.
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 4 min 26 uses per year
Room size	20 m ³
Ventilation rate per hour	0.6
Exposed skin area	Both hands (820 cm ²)
Uptake fraction dermal	100 %
	Amount per use 135 g Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	2.0361 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000006
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - inhalation, long-term - systemic
Exposure estimate	28.2836 mg/m ³
Risk Characterization Ratio (RCR)	0.228094
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PC35: Washing and Cleaning Products (including solvent based products).
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C

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Duration and Frequency of activity	Exposure duration: 1 min 1 uses per day
Room size	20 m3
Ventilation rate per hour	0.6
Exposed skin area	Both hands (820 cm ²)
Uptake fraction dermal	100 %
	Amount per use 50 g Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	28.5833 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.00008
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - inhalation, long-term - systemic
Exposure estimate	0.3125 mg/m ³
Risk Characterization Ratio (RCR)	0.00252
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PC35: Washing and Cleaning Products (including solvent based products).
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 0.33 min 1 uses per day
Room size	20 m3
Ventilation rate per hour	0.6
Exposed skin area	Both hands (820 cm ²)
Uptake fraction dermal	100 %
	Amount per use 250 g Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	28.5833 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.00008
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer

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	Consumer - inhalation, long-term - systemic
Exposure estimate	2.0868 mg/m ³
Risk Characterization Ratio (RCR)	0.016829
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PC39: Cosmetics, personal care products. In accordance to the Article 14 (5b) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation needs not to be performed for end uses in cosmetic products within the scope of Directive EC 1223/2009.
Operational conditions	
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C

17. Short title of exposure scenario

Consumer applications

SU21; ERC8b; PC12

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8b: Wide dispersive indoor use of reactive substances in open systems
Operational conditions	
Annual amount used in the EU	2,000,000 kg
Minimum emission days per year	365
Emission factor air	0.1 %
Emission factor water	2 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18,000 m ³ /d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	

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Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.039795
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	27.5 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	PC12: Fertilizers.
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Exposed skin area	Both hands (820 cm²)
Uptake fraction dermal	100 %
Uptake fraction oral	100 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	28.5833 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.00008
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - oral, long-term - systemic
Exposure estimate	6 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.168067
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

18. Short title of exposure scenario

Consumer applications

SU21; ERC8d; PC1, PC9a, PC9b, PC9c, PC24, PC27

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8d: Wide dispersive outdoor use of processing aids in

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	open systems
Operational conditions	
Annual amount used in the EU	1,500,000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	100 %
Emission factor soil	20 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.569717
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	1.4 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	EFCC SPERC 8D.1a.v1: EFCC SPERC 8D.1a.v1
Operational conditions	
Annual amount used in the EU	4,000,000 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

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Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.039795
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	55.1 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	AISE SPERC 8a.1.a.v1: AISE SPERC 8a.1.a.v1
Operational conditions	
Annual amount used in the EU	4,000,000 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
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.034927
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	23.5 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	ERC8d: Wide dispersive outdoor use of processing aids in open systems

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Operational conditions	
Annual amount used in the EU	2,000,000 kg
Minimum emission days per year	365
Emission factor air	0.005 %
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
Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.02528
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	43.3 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	ECPA SPERC 8d.2.v1: ECPA SPERC 8d.2.v1
Operational conditions	
Annual amount used in the EU	100,000 kg
Minimum emission days per year	365
Emission factor air	50 %
Emission factor water	0 %
Emission factor soil	50 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100

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Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.988636
	Risk from environmental exposure is driven by freshwater.
Maximum amount of safe use	0.1 kg/d
Risk from environmental exposure is driven by freshwater.	

Contributing exposure scenario	
Use descriptors covered	ECPA SPERC 8d.2.v1: ECPA SPERC 8d.2.v1
Operational conditions	
Annual amount used in the EU	100,000 kg
Minimum emission days per year	365
Emission factor air	50 %
Emission factor water	0 %
Emission factor soil	50 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.965909
	Risk from environmental exposure is driven by freshwater.
Maximum amount of safe use	0.1 kg/d
Risk from environmental exposure is driven by freshwater.	

Contributing exposure scenario	
Use descriptors covered	ECPA SPERC 8d.1.v1: ECPA SPERC 8d.1.v1
Operational conditions	
Annual amount used in the EU	100,000 kg
Minimum emission days per year	365

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Emission factor air	0 %
Emission factor water	0 %
Emission factor soil	100 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.986185
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	0.1 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	ECPA SPERC 8d.1.v1: ECPA SPERC 8d.1.v1
Operational conditions	
Annual amount used in the EU	100,000 kg
Minimum emission days per year	365
Emission factor air	0 %
Emission factor water	0 %
Emission factor soil	100 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.986185

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	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	0.1 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	PC1: Adhesives, Sealants
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.0077 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
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer, Inhalation model: Exposure to spray/dust
	Consumer - inhalation, long-term - systemic
Exposure estimate	24.6575 mg/m ³
Risk Characterization Ratio (RCR)	0.198851
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PC9a: Coatings and paints, thinners, paint removers
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C

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Duration and Frequency of activity	Exposure duration: 2.2 min 1 uses per day
Room size	20 m ³
Ventilation rate per hour	0.6
Exposed skin area	Palm of both hands (480 cm ²)
Uptake fraction dermal	100 %
	Amount per use 3,750 g Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	14.2917 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.00004
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - inhalation, long-term - systemic
Exposure estimate	16.1638 mg/m ³
Risk Characterization Ratio (RCR)	0.130353
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PC9a: Coatings and paints, thinners, paint removers
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 0.33 min 1 uses per year
Room size	20 m ³
Ventilation rate per hour	0.6
	Amount per use 300 g Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer, Inhalation model: Exposure to spray/dust
	Consumer - inhalation, long-term - systemic
Exposure estimate	6.8607 mg/m ³
Risk Characterization Ratio (RCR)	0.055329
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario

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Use descriptors covered	PC9b: Fillers, putties, plasters, modelling clay
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 20\%$
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 2 min 1 uses per day
Room size	20 m ³
Ventilation rate per hour	0.6
Exposed skin area	Both hands (820 cm ²)
Uptake fraction dermal	100 %
	Amount per use 25,000 g Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	28.5833 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.00008
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - inhalation, long-term - systemic
Exposure estimate	113.6364 mg/m ³
Risk Characterization Ratio (RCR)	0.916422
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PC9c: Finger paints
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 20\%$
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Exposed skin area	Both hands (820 cm ²)
Uptake fraction dermal	100 %
Uptake fraction oral	100 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer

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	Consumer - dermal, long-term - systemic
Exposure estimate	50.88 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000143
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - oral, long-term - systemic
Exposure estimate	27 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.756303
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PC24: Lubricants, Greases and Release Products
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 4 min 1 uses per day
Room size	20 m ³
Ventilation rate per hour	0.6
Exposed skin area	Both hands (820 cm ²)
Uptake fraction dermal	100 %
	Amount per use 5,000 g Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	28.5833 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.00008
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - inhalation, long-term - systemic
Exposure estimate	14.7059 mg/m ³
Risk Characterization Ratio (RCR)	0.118596
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PC27: Plant Protection products. In accordance to the Article 15 (1) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation do not need to be performed for end uses of plant protection products within the scope of Directive 91/414/EEC or Regulations: (EEC) No. 3600/92,

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	(EC) No.703/2001, (EC) No 1490/2002 or Decision 2003/565/EC.
Operational conditions	
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C

19. Short title of exposure scenario

Consumer applications

SU21; ERC8e; PC12

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8e: Wide dispersive outdoor use of reactive substances in open systems
Operational conditions	
Annual amount used in the EU	5,000,000 kg
Minimum emission days per year	365
Emission factor air	0.1 %
Emission factor water	2 %
Emission factor soil	1 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.061573
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	44.5 kg/d
Risk from environmental exposure is driven by marine sediment.	

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Contributing exposure scenario	
Use descriptors covered	PC12: Fertilizers.
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Exposed skin area	Both hands (820 cm ²)
Uptake fraction dermal	100 %
Uptake fraction oral	100 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	28.5833 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.00008
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - oral, long-term - systemic
Exposure estimate	6 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.168067
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

20. Short title of exposure scenario

Consumer applications

SU21; ERC8f; PC1, PC9a, PC9b

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	EFCC SPERC 8F.1a.v1: EFCC SPERC 8F.1a.v1
Operational conditions	
Annual amount used in the EU	4,000,000 kg
Minimum emission days per year	365
Emission factor air	0 %
Emission factor water	1 %
Emission factor soil	3.7 %

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Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.039795
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	55.1 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	PC1: Adhesives, Sealants
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.0077 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
Exposure estimate and reference to its source	
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)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer, Inhalation model: Exposure to spray/dust
	Consumer - inhalation, long-term - systemic
Exposure estimate	24.6575 mg/m ³
Risk Characterization Ratio (RCR)	0.198851

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Contributing exposure scenario	
Use descriptors covered	PC9a: Coatings and paints, thinners, paint removers
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 20\%$
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 0.33 min 2 uses per year
Room size	20 m ³
Ventilation rate per hour	0.6
	Amount per use 300 g Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer, Inhalation model: Exposure to spray/dust
	Consumer - inhalation, long-term - systemic
Exposure estimate	13.7215 mg/m ³
Risk Characterization Ratio (RCR)	0.110657
Guidance to Downstream Users	
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Contributing exposure scenario	
Use descriptors covered	PC9b: Fillers, putties, plasters, modelling clay
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: $\geq 0\%$ - $\leq 20\%$
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 2 min 1 uses per day
Room size	20 m ³
Ventilation rate per hour	0.6
Exposed skin area	Both hands (820 cm ²)
Uptake fraction dermal	100 %
	Amount per use 25,000 g Relevant for inhalative exposure estimates

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Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	28.5833 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.00008
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - inhalation, long-term - systemic
Exposure estimate	113.6364 mg/m ³
Risk Characterization Ratio (RCR)	0.916422
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

21. Short title of exposure scenario

Consumer applications

SU21; ERC9a; PC24

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC9a: Wide dispersive indoor use of substances in closed systems
Operational conditions	
Annual amount used in the EU	2,000,000 kg
Minimum emission days per year	365
Emission factor air	0.5 %
Emission factor water	0.05 %
Emission factor soil	0.01 %
Receive Surf. Water (Flow Rate).	18,000 m ³ /d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m ³ /d)	2,000 m ³ /d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.025598
	Risk from environmental exposure is driven by marine sediment.

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Maximum amount of safe use	2,140.6 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	PC24: Lubricants, Greases and Release Products
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 4 min 1 uses per day
Room size	20 m3
Ventilation rate per hour	0.6
Exposed skin area	Both hands (820 cm²)
Uptake fraction dermal	100 %
	Amount per use 5,000 g Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	28.5833 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.00008
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - inhalation, long-term - systemic
Exposure estimate	14.7059 mg/m³
Risk Characterization Ratio (RCR)	0.118596
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

22. Short title of exposure scenario

Consumer applications

SU21; ERC9b; PC24

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC9b: Wide dispersive outdoor use of substances in closed systems

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Operational conditions	
Annual amount used in the EU	2,000,000 kg
Minimum emission days per year	365
Emission factor air	0.5 %
Emission factor water	0.05 %
Emission factor soil	0.01 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.043425
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	1,261.8 kg/d
Risk from environmental exposure is driven by marine sediment.	

Contributing exposure scenario	
Use descriptors covered	PC24: Lubricants, Greases and Release Products
Operational conditions	
Concentration of the substance	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.0077 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 4 min 1 uses per day
Room size	20 m3
Ventilation rate per hour	0.6
Exposed skin area	Both hands (820 cm²)
Uptake fraction dermal	100 %
	Amount per use 5,000 g Relevant for inhalative exposure estimates

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Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	28.5833 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.00008
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - inhalation, long-term - systemic
Exposure estimate	14.7059 mg/m ³
Risk Characterization Ratio (RCR)	0.118596
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	
