

## Safety data sheet

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Date / Revised: 11.11.2022  
Date previous version: 08.12.2021  
Date / First version: 03.09.2013  
Product: **Plantapon® SUS**

Version: 4.0  
Previous version: 3.0

(ID no. 30528609/SDS\_GEN\_GB/EN)

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

#### 1.1. Product identifier

**Plantapon® SUS**

**INCI name: Disodium Lauryl Sulfosuccinate**

Chemical name (description): Butanedioic acid, sulfo-, 1-C12-18-alkyl esters, disodium salts  
(Disodium C12-18 alkyl sulfosuccinate)

REACH registration number: 01-2119977087-25-0000

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

Relevant identified uses: Anionic surfactant for cosmetic cleansing preparations, e.g. shower and bath products, liquid soaps and facial cleansers.

#### 1.3. Details of the supplier of the safety data sheet

Company:  
SOAPMAKERS STORE

Contact address:  
Unit 3 Quatro Park,  
Tanners Drive, Milton  
Keynes MK14 5FJ  
ENGLAND

Telephone: + 44 (0) 1908 334108  
E-mail address: sales@soapmakers-store.com

#### 1.4. Emergency telephone number

International emergency number:  
Telephone: + 44 (0) 1908 334108

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## SECTION 2: Hazards Identification

### 2.1. Classification of the substance or mixture

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Acute Tox. 4 (oral)	H302 Harmful if swallowed.
Eye Dam./Irrit. 1	H318 Causes serious eye damage.

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 GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Pictogram:



Signal Word:  
Danger

Hazard Statement:  
H318 Causes serious eye damage.  
H302 Harmful if swallowed.

Precautionary Statements (Prevention):  
P280 Wear eye and face protection.  
P270 Do not eat, drink or smoke when using this product.  
P264 Wash contaminated body parts 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 physician.  
P330 Rinse mouth

Precautionary Statements (Disposal):  
P501 Dispose of contents and container to hazardous or special waste collection point.

Hazard determining component(s) for labelling: Butanedioic acid, sulfo-, 1-C12-18-alkyl esters, disodium salts

### 2.3. Other hazards

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

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Fine dust can form an inflammable mixture together with air.

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

#### Chemical nature

Butanedioic acid, sulfo-, 1-C12-18-alkyl esters, disodium salts  
CAS Number: 90268-36-3  
EC-Number: 290-836-4

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.

### 3.2. Mixtures

Not applicable

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## SECTION 4: First-Aid Measures

### 4.1. Description of first aid measures

If symptoms persist, seek medical advice.

If inhaled:  
not relevant.

On skin contact:  
After contact with skin, wash immediately with plenty of water.

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

On ingestion:  
Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

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Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

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 according to symptoms (decontamination, vital functions), no known specific antidote.

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## **SECTION 5: Fire-Fighting Measures**

### **5.1. Extinguishing media**

Suitable extinguishing media:  
water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons:  
carbon dioxide

### **5.2. Special hazards arising from the substance or mixture**

Endangering substances: harmful vapours

Advice: 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.

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## **SECTION 6: Accidental Release Measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective clothing. Avoid dust formation.

### **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 appliance and dispose of.

For large amounts: Contain with dust binding material and dispose of.

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.

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## 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:

Avoid dust formation. 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: Paper/Fibreboard, Polypropylene (PP), High density polyethylene (HDPE)

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

Storage stability:

Storage temperature:  $\leq 40$  °C

Protect from temperatures above: 40 °C

After exceeding the temperature limit, the product is no longer free-flowing.

### 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.

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## SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control parameters

Components with occupational exposure limits

| No substance specific occupational exposure limits known.

PNEC

Data refer to the product

Components with PNEC

90268-36-3: Butanedioic acid, sulfo-, 1-C12-18-alkyl esters, disodium salts

freshwater: 0.011 mg/l

marine water: 0.0011 mg/l

intermittent release: 0.02 mg/l

STP: 1.7 mg/l

sediment (freshwater): 0.06158 mg/kg

sediment (marine water): 0.006158 mg/kg

soil: 0.00586 mg/kg

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oral (secondary poisoning):  
No PNEC oral derived, as accumulation in organisms is not to be expected.

#### DNEL

Data refer to the product

#### Components with DNEL

90268-36-3: Butanedioic acid, sulfo-, 1-C12-18-alkyl esters, disodium salts  
worker: Long-term exposure- systemic effects, Inhalation: 46.67 mg/m<sup>3</sup>  
worker: Long-term exposure- systemic effects, dermal: 33.09 mg/kg  
consumer: Long-term exposure- systemic effects, dermal: 19.85 mg/kg  
consumer: Long-term exposure- systemic effects, Inhalation: 13.81 mg/m<sup>3</sup>  
consumer: Long-term exposure- systemic effects, oral: 0.44 mg/kg

## **8.2. Exposure controls**

#### Appropriate engineering controls

If dust formation caused by handling cannot be avoided Staubex equipment for plants may be necessary. Ensure adequate ventilation.

#### Personal protective equipment

##### Respiratory protection:

In situations where dust may occur use appropriate certified respirators.

##### 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 ISO 374-1): nitrile rubber (NBR) - 0.2 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

Do not discharge product into the environment without control.

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## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

Form:	solid, powder	
Colour:	white, translucent to opaque	
Odour:	almost odourless	
Odour threshold:		
pH value:	not applicable 6 - 9 (water, 10 g/l, 20 °C)	(DGF-H-III 1)
melting point (decomposition):	>= 249 °C The substance / product decomposes.	(OECD Guideline 102)
decomposition point:	>= 296 °C (1,021 hPa) The substance / product decomposes.	(OECD Guideline 103)
Flash point:	> 101 °C	(ISO 2592)
Evaporation rate:	The product is a non-volatile solid.	
Flammability:	not flammable	
Flammability of Aerosol Products:	not applicable, the product does not form flammable aerosoles	
Lower explosion limit:	For solids not relevant for classification and labelling.	
Upper explosion limit:	For solids not relevant for classification and labelling.	
Ignition temperature:		
Vapour pressure:	not determined 0.00085 Pa (20 °C)	
Relative vapour density (air):	not applicable	
Solubility in water:	soluble	
Solubility (qualitative) solvent(s):	distilled water miscible in all proportions	
Partitioning coefficient n-octanol/water (log Kow):	-2.097 (20 °C)	(OECD Guideline 107)
Self ignition:	not determined	
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
Viscosity, dynamic:	not applicable, the product is a solid	
Viscosity, kinematic:	not applicable, the product is a solid	
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	

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## 9.2. Other information

Self heating ability:	It is not a substance capable of spontaneous heating.	(UN Test N.4 (self heating substances))
Bulk density:	110 - 150 g/l	(DGF-H-II 1b)

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 SDS 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 if stored and handled as prescribed/indicated.

## SECTION 11: Toxicological Information

### 11.1. Information on toxicological effects

#### Acute toxicity

Assessment of acute toxicity:

Of moderate toxicity after single ingestion. Virtually nontoxic after a single skin contact.

Experimental/calculated data:

LD50 rat (oral): > 300 - 2,000 mg/kg (Directive 84/449/EEC, B.1)

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

No mortality was observed.



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### Irritation

Assessment of irritating effects:

May cause severe damage to the eyes. Not irritating to the skin.

Experimental/calculated data:

Skin corrosion/irritation

rabbit: Slightly irritating.

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Serious eye damage/irritation

rabbit: irreversible damage

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Respiratory/Skin sensitization

Assessment of sensitization:

A controlled medical study in humans did not reveal a skin sensitizing effect.

Experimental/calculated data:

Patch-Test human: Non-sensitizing.

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Germ cell mutagenicity

Assessment of mutagenicity:

The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture.

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:

Animal studies gave no indication of a fertility impairing effect at doses which were not toxic to the parental animals.

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#### Developmental toxicity

Assessment of teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies.

#### Specific target organ toxicity (single exposure)

Assessment of STOT single:

Apart from effects causing lethality, no specific target organ toxicity was observed in experimental studies.

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

Assessment of repeated dose toxicity:

None known

#### Aspiration hazard

No aspiration hazard expected.

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## **SECTION 12: Ecological Information**

### **12.1. Toxicity**

Toxicity to fish:

LC50 (96 h) > 1 - 10 mg/l, *Brachydanio rerio* (OECD 203; ISO 7346; 92/69/EEC, C.1)  
Nominal concentration.

Aquatic invertebrates:

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

Aquatic plants:

EC50 (72 h) > 10 - 100 mg/l (growth rate), *Desmodesmus subspicatus* (OECD Guideline 201)  
Nominal concentration.

No observed effect concentration (72 h) > 10 - 100 mg/l (growth rate), *Desmodesmus subspicatus*  
(OECD Guideline 201)

Nominal concentration.

Chronic toxicity to aquatic invertebrates:

EC10 > 1 - 10 mg/l, *Daphnia magna* (OECD Guideline 211)

### **12.2. Persistence and degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O):

Readily biodegradable (according to OECD criteria).

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#### 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:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

### **12.4. Mobility in soil**

#### Assessment transport between environmental compartments:

Volatility: No data available.

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

### **12.5. Results of PBT and vPvB assessment**

According to Annex XIII 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 substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

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## **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)

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## **SECTION 14: Transport Information**

### **Land transport**

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#### ADR

	Not classified as a dangerous good under transport regulations
UN number or ID 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 or ID 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

	Not classified as a dangerous good under transport regulations
UN number or ID 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 or ID 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

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user

### **Air transport**

IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number or ID 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 or ID number**

See corresponding entries for "UN number or ID 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. Maritime transport in bulk according to IMO instruments**

Maritime transport in bulk is not intended.

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## **SECTION 15: Regulatory Information**

### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

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Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):  
Listed in above regulation: no

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

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

Acute Tox.	Acute toxicity
Eye Dam./Irrit.	Serious eye damage/eye irritation
H318	Causes serious eye damage.
H302	Harmful if swallowed.

### Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.  
ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

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.

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## Annex: Exposure Scenarios

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1. Consumer applications  
 SU21; ERC8a; PC39

2. Formulation of mixtures (industrial, professional, consumer)  
 SU3, SU22; ERC2; PROC1, PROC2, PROC3, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15

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### 1. Short title of exposure scenario

Consumer applications  
 SU21; ERC8a; PC39

### Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	COLIPA SPERC 8a.1.a.v1: COLIPA SPERC 8a.1.a.v1
<b>Operational conditions</b>	
Annual amount used in the EU	315,000 kg
Minimum emission days per year	365
Emission factor air	0 %
Emission factor water	100 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18,000 m <sup>3</sup> /d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	no STP
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.157798
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	0.217397 kg/d
Risk from environmental exposure is driven by freshwater sediment.	



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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	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.
<b>Operational conditions</b>	
Vapour pressure of the substance during use	0.00085 Pa
Process temperature	20 °C

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## 2. Short title of exposure scenario

Formulation of mixtures (industrial, professional, consumer)  
 SU3, SU22; ERC2; PROC1, PROC2, PROC3, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	COLIPA SPERC 2.1.a.v1: COLIPA SPERC 2.1.a.v1
<b>Operational conditions</b>	
Annual amount used in the EU	315,000 kg
Minimum emission days per year	220
Emission factor air	0 %
Emission factor water	0.1 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.824489

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	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	1,736.6 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Butanedioic acid, sulfo-, 1-C12-18-alkyl esters, disodium salts Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.00085 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.001036
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.2 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.004285
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Butanedioic acid, sulfo-, 1-C12-18-alkyl esters, disodium salts Content: >= 0 % - <= 100 %

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Physical state	liquid
Vapour pressure of the substance during use	0.00085 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic
Exposure estimate	1.3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.041445
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic
Exposure estimate	2 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.042854
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Butanedioic acid, sulfo-, 1-C12-18-alkyl esters, disodium salts Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.00085 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic
Exposure estimate	0.6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.020723
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic
Exposure estimate	2 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.042854

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<b>Guidance to Downstream Users</b>	
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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Butanedioic acid, sulfo-, 1-C12-18-alkyl esters, disodium salts Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.00085 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.414454
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic
Exposure estimate	2 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.042854
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Butanedioic acid, sulfo-, 1-C12-18-alkyl esters, disodium salts Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.00085 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.414454
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	2 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.042854
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Butanedioic acid, sulfo-, 1-C12-18-alkyl esters, disodium salts Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.00085 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.414454
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	2 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.042854
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	

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Concentration of the substance	Butanedioic acid, sulfo-, 1-C12-18-alkyl esters, disodium salts Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.00085 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic
Exposure estimate	6.8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.207227
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic
Exposure estimate	2 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.042854
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC14: Tableting, compression, extrusion, pelletisation, granulation Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Butanedioic acid, sulfo-, 1-C12-18-alkyl esters, disodium salts Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.00085 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic
Exposure estimate	3.4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.103614
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic

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Exposure estimate	2 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.042854
<b>Guidance to Downstream Users</b>	
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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Butanedioic acid, sulfo-, 1-C12-18-alkyl esters, disodium salts Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.00085 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.3429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.010361
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	2 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0.042854
<b>Guidance to Downstream Users</b>	
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