

Safety Data Sheet dated 12/10/2024, version 3

tance/mixture and of the company/undertaking
Waterfall - Foam Limescale Remover
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
EC regulation criteria 1272/2008 (CLP):
♦ Danger, Skin Corr. 1B, Causes severe skin burns and eye damage.
♦ Danger, Eye Dam. 1, Causes serious eye damage.
Adverse physicochemical, human health and environmental effects: No other hazards
2.2. Label elements
Hazard pictograms:



Danger Hazard statements: H314 Causes severe skin burns and eye damage. Precautionary statements: P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read carefully and follow all instructions. P280 Wear protective gloves/clothing and eye/face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

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skin with water [or shower]. 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. P405 Store locked up. P501 Dispose of contents/container in accordance with applicable regulations. Special Provisions: PACK1 The packing must be featured by a safety lock for children. PACK2 The packing must have tactive indications of danger for blind people. Contains methanesulphonic acid D-Glucopyranose, oligomers, decyl octyl glycosides Alcohols, C12-14, ethoxylated, sulfates, sodium salts 1-2,5 moles ethoxylated Special provisions according to Annex XVII of REACH and subsequent amendments: None Regulation (EC) nr 648/2004 (detergents). Product contents: Anionic surfactants, Polycarboxylates, Non-ionic surfactants < 5 % 2.3. Other hazards No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1% Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

- 3.1. Substances
 - N.A.
- 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

stta	Name	ldent. Numb	er	Classification
>= 3% - < 5%	methanesulphonic acid	Index number: CAS: EC: REACH No.:	607-145-00-4 75-75-2 200-898-6 01- 2119491166 -34	 2.16/1 Met. Corr. 1 H290 3.3/1 Eye Dam. 1 H318 3.8/3 STOT SE 3 H335 3.2/1B Skin Corr. 1B H314 3.1/4/Oral Acute Tox. 4 H302 3.1/4/Dermal Acute Tox. 4 H312
>= 2% - < 3%	D-Glucopyranose, oligomers, decyl octyl glycosides	CAS: REACH No.:	68515-73-1 01- 2119488530 -36	♦ 3.3/1 Eye Dam. 1 H318
>= 1% - < 2%	Alcohols, C12-14, ethoxylated, sulfates, sodium salts 1-2,5 moles ethoxylated	CAS: EC: REACH No.:	68891-38-3 500-234-8 01- 2119488639 -16	 ♦ 3.3/1 Eye Dam. 1 H318 ♦ 3.2/2 Skin Irrit. 2 H315 4.1/C3 Aquatic Chronic 3 H412 Specific Concentration Limits: 5% <= C < 10%: Eye Irrit. 2 H319 C >= 10%: Eye Dam. 1 H318



SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Treatment:

Nono

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Appropriate Extinguishing Media:

Not Recommended Extinguishing Media:

- 5.2. Special hazards arising from the substance or mixture Do not inhale explosion and combustion gases. Burning produces heavy smoke.
- 5.3. Advice for firefighters

Normal fire-fighting clothing, such as an open-circuit compressed air breathing apparatus (EN 137), flame-resistant suit (EN469), flame-resistant gloves (EN 659) and firefighter's boots (HO A29 or A30).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures Wear personal protection equipment. Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

For cleaning up:

Avoid flame and/or spark near leak and produced waste. Do not smoke. In case of large spills dike,

absorb and shovel up into suitable containers for disposal. Contain small spills with absorbent material.

Put dirty material in suitable container. Dispose of dirty material in accordance with local or national

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regulations.

6.4. Reference to other sections See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists. Don't use empty container before they have been cleaned. Before making transfer operations, assure that there aren't any incompatible material residuals in the containers. See also section 8 for recommended protective equipment. Advice on general occupational hygiene: Contamined clothing should be changed before entering eating areas. Do not eat or drink while working. 7.2. Conditions for safe storage, including any incompatibilities Only store in the original container. Keep away from food, drink and feed. None in particular. Instructions as regards storage premises: Adequately ventilated premises. 7.3. Specific end use(s) None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No occupational exposure limit available

DNEL Exposure Limit Values

methanesulphonic acid - CAS: 75-75-2

Worker Professional: 19.44 mg/kg - Consumer: 8.33 mg/kg - Exposure: Human Dermal -Frequency: Long Term, systemic effects

Worker Professional: 6.76 mg/m3 - Consumer: 1.44 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 0.7 mg/m3 - Consumer: 0.42 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 8.33 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Alcohols, C12-14, ethoxylated, sulfates, sodium salts 1-2,5 moles ethoxylated - CAS: 68891-38-3

Consumer: 15 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects Worker Professional: 175 mg/m3 - Consumer: 52 mg/m3 - Exposure: Human Inhalation -Frequency: Long Term, systemic effects

Worker Professional: 2750 mg/kg - Consumer: 1650 mg/kg - Exposure: Human Dermal -Frequency: Long Term, systemic effects

Worker Professional: 0.132 03 - Consumer: 0.079 03 - Exposure: Human Dermal -Frequency: Long Term, local effects

PNEC Exposure Limit Values

methanesulphonic acid - CAS: 75-75-2

Target: Fresh Water - Value: 0.012 mg/l

Target: Marine water - Value: 0.0012 mg/l

Target: 08 - Value: 0.12 mg/l

Target: Microorganisms in sewage treatments - Value: 100 mg/l

Target: Freshwater sediments - Value: 0.0251 mg/kg

Alcohols, C12-14, ethoxylated, sulfates, sodium salts 1-2,5 moles ethoxylated - CAS:

68891-38-3

Target: Fresh Water - Value: 0.24 mg/l

Target: Marine water - Value: 0.024 mg/l

Target: Freshwater sediments - Value: 0.917 mg/kg

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Target: Marine water sediments - Value: 0.092 mg/kg Target: 09 - Value: 10000 mg/l 8.2. Exposure controls Eye protection: Safety goggles. Compliant with EN 166 Protection for skin: protective clothing Protection for hands: Nitrile or Viton gloves. Compliant with EN 374. Thickness: Cuff 0.10 mm; Palm 0.12 mm; Fingers 0.145 mm Respiratory protection: Use a suitable respiratory protection device. Thermal Hazards: None Environmental exposure controls: None Appropriate engineering controls: None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Physical state:	Liquid		
Colour:	Blue		
Odour:	N.A.		
Melting point/freezing point:	N.A.		
Boiling point or initial boiling point and boiling range:	N.A.		
Flammability:	N.A.		
Lower and upper explosion limit:	N.A.		
Flash point:	N.A.		
Auto-ignition temperature:	N.A.		
Decomposition temperature:	N.A.		
pH:	0.6	ASTM D1287	
Kinematic viscosity:	N.A.		
Solubility in water:	N.A.		
Solubility in oil:	N.A.		



Partition coefficient n- octanol/water (log value):	N.A.		
Vapour pressure:	N.A.		
Density and/or relative density:	1,032	ASTM D 4052-96	
Relative vapour density:	N.A.		
Particle characteristics:			
Particle size:	N.A.		

9.2. Other information No other relevant information

SECTION 10: Stability and reactivity

- 10.1. Reactivity
 - Stable under normal conditions
- 10.2. Chemical stability

Stable at normal ambient temperatures and when used as recommended.

- 10.3. Possibility of hazardous reactions None
- 10.4. Conditions to avoid Stable under normal conditions.
- 10.5. Incompatible materials Strong alkali.
- 10.6. Hazardous decomposition products None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Toxicological information of the product: Waterfall - Anticalcare 500 ml

a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

The product is classified: Skin Corr. 1B H314

c) serious eye damage/irritation

The product is classified: Eye Dam. 1 H318

- d) respiratory or skin sensitisation
 - Not classified
 - Based on available data, the classification criteria are not met
- e) germ cell mutagenicity
 - Not classified

Based on available data, the classification criteria are not met f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met g) reproductive toxicity

- Not classified
- Based on available data, the classification criteria are not met
- h) STOT-single exposure

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Not classified Based on available data, the classification criteria are not met i) STOT-repeated exposure Not classified Based on available data, the classification criteria are not met j) aspiration hazard Not classified Based on available data, the classification criteria are not met Toxicological information of the main substances found in the product: methanesulphonic acid - CAS: 75-75-2 a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat = 649 mg/kg Test: LD50 - Route: Skin - Species: Rat 2 2000 mg/kg e) germ cell mutagenicity: Test: oecd - Species: vitro Negative Alcohols, C12-14, ethoxylated, sulfates, sodium salts 1-2,5 moles ethoxylated - CAS: 68891-38-3 a) acute toxicity: Test: LD50 - Route: Oral > 2870 mg/kg Test: LD50 - Route: Skin > 2000 mg/kg 11.2. Information on other hazards Endocrine disrupting properties: No endocrine disruptor substances present in concentration >= 0.1% **SECTION 12: Ecological information** 12.1. Toxicity Adopt good working practices, so that the product is not released into the environment. methanesulphonic acid - CAS: 75-75-2 a) Aquatic acute toxicity: Endpoint: LC50 - Species: Fish = 73 mg/l - Duration h: 96 Endpoint: EC50 - Species: Daphnia = 260 mg/l - Duration h: 48 Endpoint: EC50 - Species: Algae > 12 mg/l - Duration h: 72 b) Aquatic chronic toxicity: Endpoint: NOEC - Species: Algae = 5.8 mg/l - Duration h: 72 Alcohols, C12-14, ethoxylated, sulfates, sodium salts 1-2,5 moles ethoxylated - CAS: 68891-38-3 a) Aquatic acute toxicity: Endpoint: LC50 - Species: Fish 7.1 mg/l - Duration h: 96 Endpoint: EC50 - Species: Daphnia 7.4 mg/l - Duration h: 48 Endpoint: EC50 - Species: Algae 27.7 mg/l - Duration h: 72 b) Aquatic chronic toxicity: Endpoint: NOEC - Species: Fish 0.14 mg/l - Duration h: 672 Endpoint: NOEC - Species: Daphnia 0.27 mg/l - Duration h: 504 Endpoint: NOEC - Species: Algae 0.95 mg/l - Duration h: 72 12.2. Persistence and degradability None methanesulphonic acid - CAS: 75-75-2 Biodegradability: Readily biodegradable - Test: Dissolved organic carbon - Duration: 28gg - %: 100 Alcohols, C12-14, ethoxylated, sulfates, sodium salts 1-2,5 moles ethoxylated - CAS: 68891-38-3 Biodegradability: Readily biodegradable 12.3. Bioaccumulative potential methanesulphonic acid - CAS: 75-75-2 Bioaccumulation: Not bioaccumulative - Test: log Pow -3.8 12.4. Mobility in soil 8092/3

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N.A.

- 12.5. Results of PBT and vPvB assessment vPvB Substances: None - PBT Substances: None
- 12.6. Endocrine disrupting properties
 - No endocrine disruptor substances present in concentration >= 0.1%
- 12.7. Other adverse effects
 - None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force. Additional disposal information:

"Use in accordance with good working practices, avoiding dispersal in the environment. Do not discharge into drains, ground water or water courses. Comply with current legislation on the protection of water and soil from pollution (Legislative Decree No. 152 of 3/4/2006). Dispose of used product and containers by handing them over to authorised companies, in accordance with the provisions of

Legislative Decree No. 152/2006 (Consolidated Environmental Act, which replaced the Ronchi Decree) as amended.

The used product is to be considered special waste to be classified in accordance with Directive No. 2008/98/EC on waste and related matters. Recover if possible. Send to authorised disposal plants or incineration under

controlled conditions (152/2006 art. 184).

Act in accordance with the local and national laws in force.

Contaminated packaging must be emptied as far as possible. After cleaning, send to an authorised centre for recycling or disposal."

SECTION 14: Transport information



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CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (methanesulphonic acid)
CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (methanesulphonic acid)
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14.5. Environmental hazards	
ADR-Enviromental Pollutant:	No
IMDG-Marine pollutant:	Νο
IMDG-EmS:	F-A,
	S-B
14.6. Special precautions for user	
ADR-Subsidiary hazards:	-
ADR-S.P.:	274
ADR-Transport category (Tunn	el restriction code): 2 (E)
IATA-Passenger Aircraft:	851
IATA-Subsidiary hazards:	-
IATA-Cargo Aircraft:	855
IATA-S.P.:	A3 A803
IATA-ERG:	8L
IMDG-Subsidiary hazards:	-
IMDG-Stowage and handling:	Category B SW2
IMDG-Segregation:	SGG1 SG36 SG49
14.7. Maritime transport in bulk accor	ding to IMO instruments
N.A.	-
Limited Quantity: 1 L	

SECTION 15: Regulatory information

Exempted Quantity: E2

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Dir. 98/24/EC (Risks related to chemical agents at work) Dir. 2000/39/EC (Occupational exposure limit values) Regulation (EC) n. 1907/2006 (REACH) Regulation (EC) n. 1272/2008 (CLP) Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013 Regulation (EU) n. 2020/878 Regulation (EU) n. 286/2011 (ATP 2 CLP) Regulation (EU) n. 618/2012 (ATP 3 CLP) Regulation (EU) n. 487/2013 (ATP 4 CLP) Regulation (EU) n. 944/2013 (ATP 5 CLP) Regulation (EU) n. 605/2014 (ATP 6 CLP) Regulation (EU) n. 2015/1221 (ATP 7 CLP) Regulation (EU) n. 2016/918 (ATP 8 CLP) Regulation (EU) n. 2016/1179 (ATP 9 CLP) Regulation (EU) n. 2017/776 (ATP 10 CLP) Regulation (EU) n. 2018/669 (ATP 11 CLP) Regulation (EU) n. 2018/1480 (ATP 13 CLP) Regulation (EU) n. 2019/521 (ATP 12 CLP) Regulation (EU) n. 2020/217 (ATP 14 CLP) Regulation (EU) n. 2020/1182 (ATP 15 CLP) Regulation (EU) n. 2021/643 (ATP 16 CLP) Regulation (EU) n. 2021/849 (ATP 17 CLP) Regulation (EU) n. 2022/692 (ATP 18 CLP) Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications: Restrictions related to the product: **Restriction 3** Restrictions related to the substances contained: **Restriction 75** Pronto all'Uso Volatile Organic compounds - VOCs = 4.94 % Volatile Organic compounds - VOCs = 49.35 g/Kg

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Volatile CMR substances = 0.00 % Halogenated VOCs which are assigned the risk phrase R40 = 0.00 % Organic Carbon - C = 0.62 Where applicable, refer to the following regulatory provisions : Directive 2012/18/EU (Seveso III) Regulation (EC) nr 648/2004 (detergents). Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III): Seveso III category according to Annex 1, part 1 None

15.2. Chemical safety assessment No Chemical Safety Assessment has been carried out for the mixture. Substances for which a Chemical Safety Assessment has been carried out: Alcohols, C12-14, ethoxylated, sulfates, sodium salts 1-2,5 moles ethoxylated

SECTION 16: Other information

Text of phrases referred to under heading 3:

H290 May be corrosive to metals.

- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- H314 Causes severe skin burns and eye damage.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H412 Harmful to aquatic life with long lasting effects.

H319 Causes serious eye irritation.

Hazard class and hazard category	Code	Description
Met. Corr. 1	2.16/1	Substance or mixture corrosive to metals, Category 1
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking SECTION 5: Firefighting measures SECTION 6: Accidental release measures



SECTION 7: Handling and storage SECTION 8: Exposure controls/personal protection SECTION 9: Physical and chemical properties SECTION 10: Stability and reactivity SECTION 13: Disposal considerations SECTION 15: Regulatory information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Skin Corr. 1B, H314	Calculation method
Eye Dam. 1, H318	Calculation method

This document was prepared by a competent person who has received appropriate training. Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP: DNEL:	Classification, Labeling, Packaging. Derived No Effect Level.
EINECS: GefStoffVO ⁻	European Inventory of Existing Commercial Chemical Substances. Ordinance on Hazardous Substances, Germany
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
NA:	Not applicable
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.

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STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.

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Exposure Scenario, 08/02/2024

Substance identity	
Chemical name	Alcohols, C12-14, ethoxylated, sulfates, sodium salts 1-2,5 moles ethoxylated
CAS No.	68891-38-3
EINECS No.	500-234-8

Table of contents

- 1. **ES 1** Use at industrial site
- 2. **ES 2** Widespread use by professional workers
- 3. **ES 3** Widespread use by professional workers
- 4. **ES 4** Consumer use; Washing and cleaning products (PC35)

1. ES 1 Use at	t industrial site	
1.1 TITLE SECTION		
Exposure Scenario name	Car care and maintenance products	
Date - Version	08/02/2024 - 2.0	
Life Cycle Stage	Use at industrial site	
Main user group	Industrial uses	
Sector(s) of use	Industrial uses (SU3)	
Environment Contributing Sce	nario	
CS1 Covered by		ERC4
Worker Contributing Scenario		
CS2 Industrial		PROC10
CS3 Industrial		PROC8a
CS4 Industrial		PROC4
CS5 Industrial		PROC7
1.2 Conditions of use	affecting exposure	
1.2. CS1: Environment Contrib	uting Scenario: Covered by (ERC4)	
Environmental release categories	Use of non-reactive processing aid at industrial site (n	o inclusion into or onto article) (ERC4)
Amount used, frequency and	l duration of use (or from service life)	
Amounts used:		
Annual site tonnage 10 t(onnes)/year		
Release type: Continuous release Emission days: 20 days per year		
Conditions and measures re	lated to sewage treatment plant	
STP type:		
Municipal Sewage Treatment Plant		
STP effluent (m³/day): 18000		
Conditions and measures related to treatment of waste (including article waste)		
Waste treatment		
External treatment and disposal of waste should comply with applicable local and/or national regulations.		
Other conditions affecting environmental exposure		
Local marine water dilution factor: 100		

Local freshwater dilution factor: 10

Receiving surface water flow:	2000 m³/h	
1.2. CS2: Worker Contributing	Scenario: Industrial (PROC10)	
Process Categories	Roller application or brushing (PROC10)	
Product (article) characteri	stics	
Physical form of product:		
Liquid		
Concentration of substance in	product:	
Covers percentage substance in t	he product up to 25 %.	
Amount used, frequency and	l duration of use/exposure	
Duration:		
Application duration > 4 h		
Frequency:		
Covers use up to 5 days per week		
Other conditions affecting w	vorker exposure	
Indoor use Industrial use		
Additional conditions human I Covers skin contact area up to 960	nealth rcm²	
1.2. CS3: Worker Contributing	Scenario: Industrial (PROC8a)	
Process Categories	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)	
Product (article) characteri	stics	
Physical form of product:		
Liquid		
Concentration of substance in	product:	
Covers percentage substance in the product up to 25 %.		
Amount used, frequency and	l duration of use/exposure	
Duration:		
Application duration > 4 h		
Frequency:		
Covers use up to 5 days per week		

Other conditions affecting w	vorker exposure
Indoor use	
industrial use	
Additional conditions human Covers skin contact area up to 960	health) cm ²
1.2. CS4: Worker Contributing	Scenario: Industrial (PROC4)
Process Categories	Chemical production where opportunity for exposure arises (PROC4)
Product (article) characteri	istics
Physical form of product:	
Liquid	
Concentration of substance in	product:
Covers percentage substance in t	he product up to 25 %.
Amount used, frequency and	d duration of use/exposure
Duration:	
Application duration > 4 h	
Frequency:	
Covers use up to 5 days per week	
Other conditions affecting w	vorker exposure
Indoor use Industrial use	
Additional conditions human	health
Covers skin contact area up to 480) cm ²
1.2. CSE: Worker Contributing	Sconarios Industrial (DBOC7)
1.2. C35. Worker contributing	
Product (article) characteri	stics
Physical form of product:	
Liquid	
Concentration of substance in	product:
Covers percentage substance in t	ne product up to 5 %.
Amount used, frequency and	d duration of use/exposure
Duration:	

Application duration <= 4 h

Frequency:

Covers use up to 5 days per week

Other conditions affecting worker exposure

Indoor use Industrial use Ventilation rate: 30 %

Additional conditions human health

Covers skin contact area up to 1500 cm²

1.3 Exposure estimation and reference to its source

1.3. CS1: Environment Contributing Scenario: Covered by (ERC4)

Release route	Release rate	Release estimation method
Water	2 %	N/A
Air	0 %	N/A
soil	5 %	N/A

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
freshwater	0.116945 mg/L	N/A	0.487272
freshwater sediment	0.486471 mg/kg dry weight	N/A	0.089261
marine water	0.011676 mg/L	N/A	0.486485
marine sediment	0.048569 mg/kg dry weight	N/A	0.089117
soil	0.112922	N/A	0.015056
Sewage treatment plant	0.0632612 mg/L	N/A	7.9E-06

1.3. CS2: Worker Contributing Scenario: Industrial (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	27.429 mg/kg bw/day	N/A	0.009974
inhalative, systemic, long-term	147.917 mg/m ³	N/A	0.845238

combined routes	48.56 mg/kg bw/day	N/A	0.855212

1.3. CS3: Worker Contributing Scenario: Industrial (PROC8a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	13.714 mg/kg bw/day	N/A	0.004987
inhalative, systemic, long-term	1.479 mg/m³	N/A	0.008452
combined routes	13.926 mg/kg bw/day	N/A	0.013439

1.3. CS4: Worker Contributing Scenario: Industrial (PROC4)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	8.571 mg/kg bw/day	N/A	0.003117
inhalative, systemic, long-term	124.25 mg/m ³	N/A	0.71
combined routes	26.321 mg/kg bw/day	N/A	0.713117

1.3. CS5: Worker Contributing Scenario: Industrial (PROC7)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	8.571 mg/kg bw/day	N/A	0.003117
inhalative, systemic, long-term	124.25 mg/m ³	N/A	0.71
combined routes	26.321 mg/kg bw/day	N/A	0.713117

1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Widespread use by professional workers 2. ES 2

2.1 TITLE SECTION			
Exposure Scenario name	Car care and maintenance products		
Date - Version	08/02/2024 - 1.0		
Life Cycle Stage	Widespread use by professional workers		
Main user group	Professional uses		
Sector(s) of use	Professional uses (SU22)		
Environment Contributing Scen	nario		
CS1 Covered by			ERC8a
Worker Contributing Scenario			
CS2 Covered by			PROC8a
CS3 Covered by			PROC4
CS4 Covered by			PROC10
CS5 Covered by			PROC11
CS6 Covered by			PROC11
2.2 Conditions of use	affecting exposure		
2.2. CS1: Environment Contribu	uting Scenario: Covered by (ERC8a))	
Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)		
Amount used, frequency and duration of use (or from service life)			
Amounts used: Annual site tonnage 300 t(onnes), Daily amount per site 1644 kg/day Release type: Continuous release	′γear ,		
Emission days: 365 days per year Technical and organisational conditions and measures			
Control measures to prevent r	eleases		
	A W	ir - minimum efficie /ater - minimum eff	ncy of: 100 % ficiency of: 100 %
Other conditions affecting en	nvironmental exposure		

Local marine water dilution factor: 100

Local freshwater dilution factor: 10			
2.2. CS2: Worker Contributing	s Scenario: Covered by (PROC8a)		
Process Categories	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)		
Product (article) character	istics		
Physical form of product:			
Liquid			
Concentration of substance in) product:		
Covers percentage substance in	the product up to 25 %.		
Amount used, frequency an	d duration of use/exposure		
Duration:			
Covers use up to > 4 h			
Frequency:			
Use frequency 5 days per week			
Other conditions affecting w	vorker exposure		
Indoor use Professional use			
Additional conditions human Covers skin contact area up to 960	health 0 cm ²		
2.2. CS3: Worker Contributing	; Scenario: Covered by (PROC4)		
Process Categories	Chemical production where opportunity for exposure arises (PROC4)		
Product (article) character	istics		
Physical form of product:			
Liquid			
Concentration of substance in product:			
Covers percentage substance in the product up to 25 %.			
Amount used, frequency and duration of use/exposure			
Duration:			
Covers use up to > 4 h			
Frequency:			
Use frequency 5 days per week			

Other conditions affecting worker exposure Indoor use Professional use		
Additional conditions human Covers skin contact area up to 480	health ⁾ cm ²	
2.2. CS4: Worker Contributing	Scenario: Covered by (PROC10)	
Process Categories	Roller application or brushing (PROC10)	
Product (article) characteri	stics	
Physical form of product:		
Liquid		
Concentration of substance in	product:	
Covers concentrations up to 5 %		
Amount used, frequency and	l duration of use/exposure	
Duration:		
Covers use up to > 4 h		
Frequency:		
Use frequency 5 days per week		
Other conditions affecting w	vorker exposure	
Indoor use Professional use		
Additional conditions human Covers skin contact area up to 960	health ⁾ cm ²	
2.2. CS5: Worker Contributing	Scenario: Covered by (PROC11)	
Process Categories	Non industrial spraying (PROC11)	
Product (article) characteri	stics	
Physical form of product:		
Liquid		
Concentration of substance in product:		
Covers concentrations up to 5 %		
Amount used, frequency and duration of use/exposure		
Duration:	Duration:	

Covers use up to > 4 h

Frequency:

Use frequency 5 days per week

Other conditions affecting worker exposure

Indoor use Professional use Ventilation rate: 30 %

Additional conditions human health

Covers skin contact area up to 1500 cm²

2.2. CS6: Worker Contributin	g Scenario: Covered by (PROC11)
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Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers concentrations up to 5 %

Amount used, frequency and duration of use/exposure

Duration:

Covers use up to > 4 h

Frequency:

Use frequency 5 days per week

Other conditions affecting worker exposure

Indoor use Professional use Ventilation rate: 30 %

Additional conditions human health

Covers skin contact area up to 1500 cm²

2.3 Exposure estimation and reference to its source

2.3. CS1: Environment Contributing Scenario: Covered by (ERC8a)

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
freshwater	0.064084 mg/L	N/A	0.267015
freshwater sediment	0.266576 mg/kg dry weight	N/A	0.048913

marine water	0.006389 mg/L	N/A	0.266228
marine sediment	0.026579 mg/kg dry weight	N/A	0.048769
soil	0.106749 mg/kg dry weight	N/A	0.014233
Sewage treatment plant	0.103991 mg/L	N/A	1E-05

2.3. CS2: Worker Contributing Scenario: Covered by (PROC8a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	13.714 mg/kg dry weight	N/A	0.004987
inhalative, systemic, long-term	1.479 mg/m ³	N/A	0.008452
combined routes	13.926 mg/kg dry weight	N/A	0.013439

2.3. CS3: Worker Contributing Scenario: Covered by (PROC4)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	6.857 mg/kg dry weight	N/A	0.002494
inhalative, systemic, long-term	1.479 mg/m³	N/A	0.008452
combined routes	7.068 mg/kg dry weight	N/A	0.010946

2.3. CS4: Worker Contributing Scenario: Covered by (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	5.486 mg/kg dry weight	N/A	0.001995
inhalative, systemic, long-term	73.958 mg/m ³	N/A	0.422619
combined routes	16.051 mg/kg dry weight	N/A	0.424614

2.3. CS5: Worker Contributing Scenario: Covered by (PROC11)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	21.429 mg/kg dry weight	N/A	0.007792

inhalative, systemic, long-term	59.167 mg/m ³	N/A	0.338095
combined routes	29.881 mg/kg dry weight	N/A	0.345887

2.3. CS6: Worker Contributing Scenario: Covered by (PROC11)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	21.429 mg/kg dry weight	N/A	0.007792
inhalative, systemic, long-term	124.25 mg/m ³	N/A	0.71
combined routes	39.179 mg/kg dry weight	N/A	0.717792

2.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

3. ES 3 Widespread use by professional workers

3.1 TITLE SECTION

•			
Exposure Scenario name	Professional use of dishwash products		
Date - Version	08/02/2024 - 3.0		
Life Cycle Stage	Widespread use by professional workers		
Main user group	Professional uses		
Sector(s) of use	Professional uses (SU22)		
Environment Contributing Sce	nario		
CS1 Covered by ERC8a		ERC8a	
Worker Contributing Scenario			
CS2 General use from professional operators PROC8b		PROC8b	
CS3 General use from professional operators PROC1		PROC1	
CS4 General use from professional operators PROC8a			
CS5 General use from professional operators PROC2		PROC2	
CS6 General use from professional operators PROC10			
CS7 General use from professional operators PROC10		PROC10	
3.2 Conditions of use affecting exposure			

3.2. CS1: Environment Contributing Scenario: Covered by (ERC8a)

Environmental release	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
categories	(ERC8a)

Amount used, frequency and duration of use (or from service life)

Amounts used:

Daily amount per site 300 t(onnes)/year Daily amount per site 1644 kg/day

Release type: Continuous release

Emission days: 365 days per year

Conditions and measures related to sewage treatment plant

STP type:

Municipal Sewage Treatment Plant

STP effluent (m³/day): 18000

Conditions and measures related to treatment of waste (including article waste)

Waste treatment

External treatment and disposal of waste should comply with applicable local and/or national regulations.

Other conditions affecting environmental exposure

Local marine water dilution factor: 100

Local freshwater dilution factor: 10

Receiving surface water flow: 2000 m³/day

3.2. CS2: Worker Contributing Scenario: General use from professional operators (PROC8b)

Process Categories

Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)

Product (article) characteristics

Concentration of substance in product:

Covers percentage substance in the product up to 25 %.

Amount used, frequency and duration of use/exposure

Duration:

Application duration > 4 h

Frequency:

Covers frequency up to: 5 days per week

Other conditions affecting worker exposure

Indoor use Professional use

Additional conditions human health

Covers skin contact area up to 960 cm²

3.2. CS3: Worker Contributing Scenario: General use from professional operators (PROC1)

Process Categories	Chemical production or refinery in closed process without likelihood of exposure or
Frocess categories	processes with equivalent containment conditions (PROC1)

Product (article) characteristics

Concentration of substance in product:

Covers percentage substance in the product up to 25 %.

Amount used, frequency and duration of use/exposure

Duration:

Application duration > 4 h

Frequency:

Covers frequency up to: 5 days per week

Other conditions affecting worker exposure

Indoor use Professional use

Additional conditions human health

Covers skin contact area up to 240 cm²

3.2. CS4: Worker Contributing Scenario: General use from professional operators (PROC8a)			
Process Categories	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)		
Product (article) character	istics		
Concentration of substance in	product:		
Covers percentage substance in	the product up to 25 %.		
Amount used, frequency an	d duration of use/exposure		
Duration:			
Application duration > 4 h			
Frequency:			
Covers frequency up to: 5 days p	er week		
Other conditions affecting v	vorker exposure		
Indoor use Professional use			
Additional conditions human Covers skin contact area up to 96	health) cm²		
3.2. CS5: Worker Contributing	Scenario: General use from professional operators (PROC2)		
Process Categories	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)		
Process Categories Product (article) character	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) <i>istics</i>		
Process Categories Product (article) character Concentration of substance in	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) istics product:		
Process Categories Product (article) character Concentration of substance in Covers percentage substance in	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) istics product: the product up to 25 %.		
Process Categories Product (article) character Concentration of substance in Covers percentage substance in Amount used, frequency and	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) istics product: the product up to 25 %.		
Process Categories Product (article) character Concentration of substance in Covers percentage substance in Amount used, frequency and Duration:	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) istics product: the product up to 25 %. d duration of use/exposure		
Process Categories Product (article) character Concentration of substance in Covers percentage substance in Amount used, frequency and Duration: Application duration > 4 h	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) istics product: the product up to 25 %. d duration of use/exposure		
Process Categories Product (article) character Concentration of substance in Covers percentage substance in Amount used, frequency and Duration: Application duration > 4 h Frequency:	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) istics product: the product up to 25 %. d duration of use/exposure		
Process Categories Product (article) character Concentration of substance in Covers percentage substance in Amount used, frequency and Duration: Application duration > 4 h Frequency: Covers frequency up to: 5 days p	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) istics product: the product up to 25 %. d duration of use/exposure		
Process Categories Product (article) character Concentration of substance in Covers percentage substance in Amount used, frequency and Duration: Application duration > 4 h Frequency: Covers frequency up to: 5 days p Other conditions affecting v	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) istics product: the product up to 25 %. d duration of use/exposure er week		
Process Categories Product (article) character Concentration of substance in Covers percentage substance in Amount used, frequency and Duration: Application duration > 4 h Frequency: Covers frequency up to: 5 days p Other conditions affecting v Indoor use Professional use	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) istics product: the product up to 25 %. d duration of use/exposure er week worker exposure		
Process Categories Product (article) character Concentration of substance in Covers percentage substance in Amount used, frequency and Duration: Application duration > 4 h Frequency: Covers frequency up to: 5 days p Other conditions affecting v Indoor use Professional use Additional conditions human Covers skin contact area up to 480	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) istics product: the product up to 25 %. d duration of use/exposure er week vorker exposure		
Process Categories Product (article) character Concentration of substance in Covers percentage substance in Covers percentage substance in Amount used, frequency and Duration: Application duration > 4 h Frequency: Covers frequency up to: 5 days p Other conditions affecting v Indoor use Professional use Additional conditions human Covers skin contact area up to 480 3.2. CS6: Worker Contributing	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) istics product: the product up to 25 %. d duration of use/exposure er week vorker exposure health 0 cm ² ; Scenario: General use from professional operators (PROC10)		

Product (article) characteristics

Concentration of substance in product:

Covers percentage substance in the product up to 25 %.

Amount used, frequency and duration of use/exposure

Duration:

Application duration <= 4 h

Frequency:

Covers frequency up to: 5 days per week

Other conditions affecting worker exposure

Indoor use Professional use

Additional conditions human health

Covers skin contact area up to 960 cm²

3.2. CS7: Worker Contributing Scenario: General use from professional operators (PROC10)

Process Categories

Roller application or brushing (PROC10)

Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers percentage substance in the product up to 25 %.

Amount used, frequency and duration of use/exposure

Duration:

Exposure duration 15 min/h

Frequency:

Covers frequency up to: 5 days per week

Other conditions affecting worker exposure

Indoor use Professional use

Additional conditions human health

Covers skin contact area up to 960 cm²

3.3 Exposure estimation and reference to its source

3.3. CS1: Environment Contributing Scenario: Covered by (ERC8a)

Release route	Release rate	Release estimation method
Water	100 %	N/A
Air	100 %	N/A
soil	0 %	N/A
Air soil	0 %	N/A N/A

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
freshwater	0.064084 mg/L	N/A	6.156
freshwater sediment	mg/kg dry weight	N/A	33.607
marine water	0.006389 mg/L	N/A	6.175
marine sediment	0.026579	N/A	33.707
soil	0.106749 mg/kg dry weight	N/A	0.014233
Sewage treatment plant	0.103991 mg/L	N/A	1E-05

3.3. CS2: Worker Contributing Scenario: General use from professional operators (PROC8b)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	13.714 mg/kg bw/day	N/A	0.004987
inhalative, systemic, long-term	1.479 mg/m ³	N/A	0.008452
combined routes	13.926 mg/kg bw/day	N/A	0.013439

3.3. CS3: Worker Contributing Scenario: General use from professional operators (PROC1)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	0.034286 mg/kg bw/day	N/A	1.2E-05
inhalative, systemic, long-term	0.147917 mg/m ³	N/A	0.000845
combined routes	0.055417 mg/kg bw/day	N/A	0.000858

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	13.714 mg/kg bw/day	N/A	0.004987
inhalative, systemic, long-term	1.479 mg/m ³	N/A	0.008452
combined routes	13.926 mg/kg bw/day	N/A	0.013439

3.3. CS5: Worker Contributing Scenario: General use from professional operators (PROC2)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	1.371 mg/kg bw/day	N/A	0.000499
inhalative, systemic, long-term	1.479 mg/m ³	N/A	0.008452
combined routes	1.583 mg/kg bw/day	N/A	0.008951

3.3. CS6: Worker Contributing Scenario: General use from professional operators (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	16.457 mg/kg bw/day	N/A	0.005984
inhalative, systemic, long-term	133.125 mg/m ³	N/A	0.760714
combined routes	35.475 mg/kg bw/day	N/A	0.766699

3.3. CS7: Worker Contributing Scenario: General use from professional operators (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	16.457 mg/kg bw/day	N/A	0.005984
inhalative, systemic, long-term	44.375 mg/m ³	N/A	0.253571
combined routes	22.796 mg/kg bw/day	N/A	0.259556

3.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

4. ES 4 Consumer use; Washing and cleaning products (PC35)

4.1 TITLE SECTION

4.1 IIILE SECTION			
Exposure Scenario name	Cleaning agent		
Date - Version	08/02/2024 - 2.0		
Life Cycle Stage	Consumer use		
Main user group	Consumer uses		
Sector(s) of use	Consumer uses (SU21)		
Product Categories	Washing and cleaning products (PC35)		
Environment Contributing Sce	nario		
CS1 Covered by		ERC8a	
Consumer Contributing Scenar	rio		
CS2 Consumer		PC35	
CS3 Consumer		PC35	
CS4 Consumer		PC35	
4.2 Conditions of use	affecting exposure		
4.2. CS1: Environment Contrib	uting Scenario: Covered by (ERC8a)		
Environmental release categories	Widespread use of non-reactive processing aid (no inc (ERC8a)	lusion into or onto article, indoor)	
Amount used, frequency and duration of use (or from service life)			
Amounts used: Daily amount per site 1644 kg/day Release type: Continuous release			
Emission days: 365 days per year			
Conditions and measures related to treatment of waste (including article waste)			
Waste treatment External treatment and disposal of waste should comply with applicable local and/or national regulations.			
Other conditions affecting environmental exposure			
Local marine water dilution factor: 100			
Local freshwater dilution factor: 10			
Receiving surface water flow: 18000 m³/day			
4.2. CS2: Consumer Contributing Scenario: Consumer (PC35)			
Product Categories	Washing and cleaning products (PC35)		

Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers concentrations up to 50 %

Amount used, frequency and duration of use/exposure

Amounts used:

Amount per use 250 g

Duration:

Exposure duration 0.33 h

Frequency:

Covers use up to 1 uses per day

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³

Body parts exposed:

Assumes that potential dermal contact is limited to hands.

4.2. CS3: Consumer Contributing Scenario: Consumer (PC35)

Product Categories

Washing and cleaning products (PC35)

Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers concentrations up to 60 %

Amount used, frequency and duration of use/exposure

Amounts used:

Amount per use 50 g

Duration:

Exposure duration 1 h			
Frequency:			
Covers use up to 1 uses per day			
Other conditions affecting c	onsumers exposure		
Room size: Covers use in room size of	of 20 m³		
Body parts exposed:			
Assumes that potential dermal co	intact is limited to hands.		
4.2. CS4: Consumer Contributi	ng Scenario: Consumer (PC3	35)	
Product Categories	Washing and cleaning produc	ts (PC35)	
Product (article) characteri	stics		
Physical form of product:			
Liquid			
Concentration of substance in	product:		
Covers concentrations up to 10 %			
covers concentrations up to 10 %			
Amount used, frequency and	l duration of use/exposure	е	
Amounts used:			
Amount per use 35 g			
Duration:			
Exposure duration 4 h			
Frequency			
Covers use up to 1 uses per day			
Other conditions affecting consumers exposure			
Room size: Covers use in room size of 20 m ³			
Body parts exposed:			
Assumes that potential dermal contact is limited to hands.			
4.3 Exposure estimation and reference to its source			
4.3. CS1: Environment Contributing Scenario: Covered by (ERC8a)			
Release route	Release rate	Release estimation method	

Air	100 %	N/A			
Water 100 %		N/A			
soil	0 %	N/A	N/A		
		I			
protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)		
freshwater	0.064084 mg/L	N/A	0.267015		
freshwater sediment	0.266576 mg/kg dry weight	N/A	0.048913		
marine water	0.006389 mg/L	N/A	0.266228		
marine sediment	0.026579 mg/kg dry weight	N/A	0.048769		
soil	0.106749 mg/kg dry weight	N/A	0.014233		
Sewage treatment plant	0.103991 mg/L	N/A	1E-05		

4.2. CS2: Consumer Contributing Scenario: Consumer (PC35)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	71458 mg/kg bw/day	ECETOC TRA consumer v3	0.043308
inhalative, systemic, long-term	0.001433 mg/m ³	ECETOC TRA consumer v3	2.8E-05
combined routes	71.458 mg/kg bw/day	ECETOC TRA consumer v3	0.043336

4.2. CS3: Consumer Contributing Scenario: Consumer (PC35)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	85.75 mg/kg bw/day	ECETOC TRA consumer v3	0.05197
inhalative, systemic, long-term	0.001433 mg/m ³	ECETOC TRA consumer v3	2.8E-05
combined routes	85.75 mg/kg bw/day	ECETOC TRA consumer v3	0.051997

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	14.292 mg/kg bw/day	ECETOC TRA consumer v3	0.008662
inhalative, systemic, long-term	51.471 mg/m ³	ECETOC TRA consumer v3	0.989819
combined routes	18.996 mg/kg bw/day	ECETOC TRA consumer v3	0.998481

4.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.