

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

WaterJems pH Increaser

Version 9.0 Print Date 2019/08/07

Revision date / valid from 2019/08/07

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

1.1. Product identifier

Trade name : SODIUM CARBONATE SOLID (PH INCREASER)

 Substance name
 : sodium carbonate

 Index-No.
 : 011-005-00-2

 CAS-No.
 : 497-19-8

 EC-No.
 : 207-838-8

EU REACH-Reg. No. : 01-2119485498-19-xxxx

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

Use of the : Identified use: See table in front of appendix for a complete

Substance/Mixture overview of identified uses.

Uses advised against : At this moment we have not identified any uses advised

against

Remarks : Before referring to any Exposure Scenario attached to this

Safety Data Sheet please check the grade of the product: the Exposure Scenarios presented are not related to all product

grade

1.3. Details of the supplier of the safety data sheet

Company : Jem Products Ltd

Unit 20 Sycamore Trading Estate

Blackpool Lancashire FY4 3RL

1.4. Emergency telephone number

Emergency telephone

NHS 111 or 999

number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

REGULATION (EC) No 1272/2008

Hazard class	Hazard category	Target Organs	Hazard statements	
Eye irritation	Category 2		H319	

For the full text of the H-Statements mentioned in this Section, see Section 16.

Most important adverse effects

Human Health See section 11 for toxicological information.

Physical and chemical

hazards

Potential environmental:

effects

See section 9/10 for physicochemical information.

See section 12 for environmental information.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols



Signal word Warning

Hazard statements H319 Causes serious eye irritation.

Precautionary statements

Prevention P264 Wash skin thoroughly after handling.

P280 Wear eye protection/ face protection.

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.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

Hazardous components which must be listed on the label:

sodium carbonate

2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.

SECTION 3: Composition/information on ingredients

3.1. Substances

Classification (REGULATION (EC) No 1272/2008)

Hazardous components

Amount [%]

Hazard class / Hazard category

Hazard statements

sodium carbonate

Index-No. : 011-005-00-2 >= 90 - < 100 Eye Irrit.2 H319

CAS-No. : 497-19-8 EC-No. : 207-838-8

EU REACH- : 01-2119485498-19-xxxx

Reg. No.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice : Take off all contaminated clothing immediately.

If inhaled : Remove to fresh air. If symptoms persist, call a physician.

In case of skin contact : Wash off immediately with soap and plenty of water. If skin

irritation persists, call a physician.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 5 minutes. Consult an eye specialist immediately.

Go to an ophthalmic hospital if possible.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. If

symptoms persist, call a physician.

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

Symptoms : See Section 11 for more detailed information on health effects

and symptoms.

Effects : See Section 11 for more detailed information on health effects

and symptoms.

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

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

High volume water jet

Special hazards arising from the substance or mixture

Specific hazards during

firefighting

Hazardous combustion

products

Incomplete combustion may form toxic pyrolysis products.

: Carbon monoxide, Carbon dioxide (CO2)

5.3. Advice for firefighters

Special protective

equipment for firefighters Further advice

: In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

: Use personal protective equipment. Keep away unprotected Personal precautions

persons. Ensure adequate ventilation. Avoid contact with skin

and eyes.

Environmental precautions

Environmental

: Do not flush into surface water or sanitary sewer system.

precautions

Avoid subsoil penetration.

Methods and materials for containment and cleaning up

containment and cleaning

Methods and materials for : Use mechanical handling equipment. Keep in suitable, closed

containers for disposal.

up

Further information : Treat recovered material as described in the section "Disposal

considerations".

Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on personal protective equipment.

See Section 13 for waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

: Keep container tightly closed. Use personal protective Advice on safe handling

equipment. Avoid dust formation. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Emergency eye wash fountains and emergency showers should be available in

the immediate vicinity.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking,

eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off

all contaminated clothing immediately.

Conditions for safe storage, including any incompatibilities

areas and containers

Requirements for storage : Store in original container. Suitable materials for containers: polyethylene; Unsuitable materials for containers: Aluminium

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Further information on storage conditions

: Keep tightly closed in a dry and cool place. Product is

hygroscopic.

Advice on common

storage

: Keep away from food, drink and animal feedingstuffs. Do not

store near acids.

7.3. Specific end use(s)

Specific use(s) : Identified use: See table in front of appendix for a complete

overview of identified uses.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other Occupational Exposure Limit Values

(Additional) Information : Contains no substances with occupational exposure limit values.

Contains no substances with occupational exposure limit values.

Component: sodium carbonate CAS-No. 497-19-8

Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL

Workers, long-term, Inhalation 10 mg/m3

DNEL

10 mg/m3 Consumers, Acute - local effects, Inhalation

Predicted No Effect Concentration (PNEC)

Not applicable :

8.2. Exposure controls

Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

Advice : Required, if exposure limit is exceeded (e.g. OEL).

Respiratory protection complying with EN 141.

Respirator with a dust filter

Particle filter:P2 Particle filter:P3

Hand protection

Advice : Protective gloves complying with EN 374.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion,

and the contact time.

Protective gloves should be replaced at first signs of wear.

Material : Natural Rubber

Break through time : >= 8 hGlove thickness : 0.5 mm

Material : polychloroprene

Break through time : >= 8 hGlove thickness : 0.5 mm

Material : Nitrile rubber Break through time : >= 8 h Glove thickness : 0.35 mm

Material : Fluorinated rubber

Break through time : >= 8 hGlove thickness : 0.4 mm

Material : Polyvinylchloride

Break through time : >= 8 h Glove thickness : 0.5 mm

Eye protection

Advice : Safety goggles

Skin and body protection

Advice : Wear personal protective equipment.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form : solid

Colour : white

Odour : odourless

Odour Threshold : no data available

pH : 11.2 (1 g/l ; 20 °C)

Melting point/range : 851 °C

Boiling point/boiling range : 1,600 °C

Flash point : Not applicable

Evaporation rate : no data available

Flammability (solid, gas) : The product is not flammable.

Upper explosion limit : The product is not flammable.

Lower explosion limit : The product is not flammable.

Vapour pressure : Not applicable

Relative vapour density : no data available

Relative density : 2.52 (20 °C) (EU Method A.3)

Water solubility : 212.5 g/l (20 °C) (OECD Test Guideline 105)

71 g/l (0 °C)

Partition coefficient: n-octanol/water : no data available

Auto-ignition temperature : no data available

Thermal decomposition : > 400 °C

Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Explosivity : no data available

Oxidizing properties : no data available

9.2. Other information

Molecular weight : 106 g/mol

Bulk density : 0.5 - 0.6 kg/dm3 Light soda ash

0.97 - 1.10 kg/dm3 Dense soda ash

SECTION 10: Stability and reactivity

10.1. Reactivity

Advice : No decomposition if stored and applied as directed.

10.2. Chemical stability

Advice : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Product is hygroscopic. Contact with acids liberates carbon

dioxide. In contact with metals generates hydrogen gas, which

together with air can form explosive mixtures.

10.4. Conditions to avoid

Conditions to avoid : Protect from humidity and keep away from water.

Thermal decomposition : > 400 °C

10.5. Incompatible materials

Materials to avoid : Acids, Light metals, Aluminium powder

10.6. Hazardous decomposition products

Hazardous decomposition : Under normal conditions of storage and use, hazardous

products decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Component:	sodium carbonate	CAS-No. 497-19-8		
	Acute toxicity			

Oral

LD50 : 2800 mg/kg body weight(Rat, male and female)

Inhalation

LC50 : 2.3 mg/l (Rat; 2 h) (OECD Test Guideline 403)Inhalation may

cause pain and cough.

Dermal

LD50 : > 2000 mg/kg body weight(Rabbit) (US-EPA method)

Irritation

Skin

Result : No skin irritation (Rabbit) (OECD Test Guideline 404)

Eyes

Result : Severe eye irritation (Rabbit) (US-EPA method)

Sensitisation

Result : not sensitizing

CMR effects

CMR Properties

Carcinogenicity : Study scientifically not justified.

Mutagenicity : In vitro tests did not show mutagenic effects

Teratogenicity : Animal testing did not show any effects on foetal development.

Reproductive toxicity : Study scientifically not justified.

Specific Target Organ Toxicity

Single exposure

Remarks : The substance or mixture is not classified as specific target organ

toxicant, single exposure.

Repeated exposure

Remarks : The substance or mixture is not classified as specific target organ

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toxicant, repeated exposure.

Other toxic properties

Repeated dose toxicity

Sodium carbonate dissociates into ions that are present physiologically in relatively high levels in vertebrates. Therefore, repeated dose toxicity studies are considered (scientifically) unnecessary, in accordance with column 2 of REACH Annex VIII and IX.

Aspiration hazard

No aspiration toxicity classification,

SECTION 12: Ecological information

12.1. Toxicity

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Component:	sodium carbonate	CAS-No. 497-19-8			
	Acute toxicity				
	Fish				
EC50	: 300 mg/l (Lepomis macrochirus; 96 h)				
	Toxicity to daphnia and other aquatic invertebrate	es			
	: 200 - 227 mg/l (Freshwater invertebrates; 48 h)				
	algae				
	: Study scientifically unjustified.				
	Bacteria				
	: Study scientifically unjustified.				
	Short-term (acute) aquatic hazard				

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Result : This product has no known ecotoxicological effects.

Study scientifically unjustified.

Chronic toxicity

Long-term (chronic) aquatic hazard

Result : Study scientifically unjustified.

12.2. Persistence and degradability

Component:	emponent: sodium carbonate				
Persistence and degradability					
Persistence					
Result	: decomposition by hydrolysis.				
Biodegradability					

Result : The methods for determining the biological degradability are not

applicable to inorganic substances.

12.3. Bioaccumulative potential

Component:	Component: sodium carbonate	
	Bioaccumulation	

Result : Bioaccumulation is not expected.

12.4. Mobility in soil

Component:	Component: sodium carbonate			
	Mobility			

: study scientifically unjustified

12.5. Results of PBT and vPvB assessment

Component:	sodium carbonate	CAS-No. 497-19-8
	Results of PBT and vPvB assessment	

Result : The PBT or vPvB criteria of Annex XIII to the REACH Regulation

does not apply to inorganic substances.

12.6. Other adverse effects

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Data for the product

Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration.

Result :

Component: sodium carbonate CAS-No. 497-19-8

Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product : Disposal together with normal waste is not allowed. Special

disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.

Contaminated packaging : Empty contaminated packagings thoroughly. They can be

recycled after thorough and proper cleaning. If recycling is not practicable, dispose of in compliance with local regulations.

European Waste Catalogue Number No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates

the assignment. The waste code is established in consultation

with the regional waste disposer.

SECTION 14: Transport information

Not dangerous goods for ADR, RID, IMDG and IATA.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG : Not applicable.

SECTION 15: Regulatory information

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

Component:	sodium carbonate	CAS-No. 497-19-8		

EU. Regulation EU No. 649/2012 concerning the export and import of dangerous chemicals

: ; The substance/mixture does not fall under this legislation.

EU. REACH, Annex XVI Marketing and Use Restrictions (Regulation 1907/2006/EC)

EU. REACH, Annex XVII, : ; The substance/mixture does not fall under this legislation.

EU. Regulation No 1451/2007 [Biocides], Annex I, OJ (L 325) EC Number: , 207-838-8; Listed

EU. Directive 2012/18/EU (SEVESO III) Annex I ; The substance/mixture does not fall under this legislation.

Notification status

Socium Carbonate.		
Regulatory List AICS	Notification	Notification number
AICS	YES	
DSL	YES	
EINECS	YES	207-838-8
ENCS (JP)	YES	(1)-164

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IECSC	YES	
ISHL (JP)	YES	(1)-164
KECI (KŔ)	YES	KÉ-31380
NZIOC	YES	HSR003265
DICCC (DLI)	VEC	

PICCS (PH) YES TSCA YES

15.2. Chemical safety assessment

no data available

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H319 Causes serious eye irritation.

Abbreviations and Acronyms

BCF bioconcentration factor
BOD biochemical oxygen demand
CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging

CMR carcinogenic, mutagenic or toxic to reproduction

COD chemical oxygen demand

DNEL derived no-effect level

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

Globally Harmonized System of Classification and Labelling of

Chemicals

LC50 median lethal concentration

LOAEC lowest observed adverse effect concentration

LOAEL lowest observed adverse effect level

LOEL lowest observed effect level

NLP no-longer polymer

NOAEC no observed adverse effect concentration

NOAELno observed adverse effect levelNOECno observed effect concentration

NOEL no observed effect level

OECD Organisation for Economic Cooperation and Development

OEL occupational exposure limit

PBT persistent, bioaccumulative and toxic

REACH Auth. No.: REACH Authorisation Number

REACH AuthAppC. No. REACH Authorisation Application Consultation Number

PNEC predicted no-effect concentration
STOT specific target organ toxicity
SVHC substance of very high concern

UVCB substance of unknown or variable composition, complex reaction

products or biological materials

vPvB very persistent and very bioaccumulative

Further information

Key literature references : and sources for data

Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were

used to create this safety data sheet.

Methods used for product classification

The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.

Hints for trainings : The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National

regulations for the training of workers in the handling of

hazardous materials must be adhered to.

Other information :

The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and

does not constitute a legal relationship.

The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in

the text.

|| Indicates updated section.

No.	Short title	Main User Group (SU)	Sector of Use (SU)	Product Category (PC)	Process Category (PROC)	Environm ental Release Category (ERC)	Article Category (AC)	Specified
1	Manufacture of substance	3	8	NA	1, 2, 3, 4, 8a, 8b, 9, 22	1	NA	ES864
2	Formulation & (re)packing of substances and mixtures	3	10	NA	1, 2, 3, 5, 8a, 8b, 9, 14, 15	2	NA	ES878
3	Use in glass production	3	NA	NA	1, 2, 3, 4, 8a, 8b, 22, 23, 26	6a	NA	ES866
4	Industrial use	3	NA	NA	1, 2, 3, 4, 7, 8a, 8b, 9, 10, 13, 15, 17, 18, 19, 22, 23, 26	4, 5, 6a, 6b, 6d, 7	NA	ES871
5	Professional use	22	NA	0, 1, 2, 3, 4, 7, 8, 9a, 9b, 9c, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40	1, 2, 4, 8a, 8b, 9, 10, 11, 13, 15, 19	8a, 8b, 8c, 8d, 8e, 8f, 9a, 9b	NA	ES873
6	Consumer use	21	NA	1, 2, 3, 4, 7, 8, 9a, 9b, 9c, 0, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40	NA	8a, 8b, 8c, 8d, 8e, 8f, 9a, 9b	NA	ES869

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Environment

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1. Short title of Exposure Sco	enario 1: Manufacture of	f substance		
Main User Groups	SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites			
Sectors of end-use	SU8: Manufacture of bulk,	SU8: Manufacture of bulk, large scale chemicals (including petroleum products)		
Process categories	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC22: Manufacturing and processing of minerals and/or metals at substantially elevated temperature			
Environmental Release Categories	ERC1: Manufacture of sub			
2.1 Contributing scenario co	ntrolling environmental	exposure for: ERC1		
Amount used	Annual site tonnage	1.5 Million tonnes/year		
Frequency and duration of use	Continuous exposure	Continuous release		
Technical conditions and measures at process level to prevent release Technical onsite conditions and measures to reduce or limit discharges, air emissions and	Water	Wastewater streams from production sites contain inorganic substances and are therefore not treated in sewage treatment plants		
releases to soil Organizational measures to prevent/limit release from the site Conditions and measures related				
to external treatment of waste for	Waste treatment	No specific waste treatment required/proposed		
disposal 2.2 Contributing scenario co PROC8a, PROC8b, PROC		re for: PROC1, PROC2, PROC3, PROC4,		
Product characteristics	Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 25 %.		
	Physical Form (at time of use)	solid		
Amount used	Not applicable			
Frequency and duration of use	Exposure duration per day	<= 8 h		
Organisational measures to prevent /limit releases, dispersion and exposure	Provide basic employee tra	aining to prevent/minimize exposures		
3. Exposure estimation and	reference to its source			

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Contributing Scenario	Specific conditions	Compartment	Value	Level of Exposure	RCR
		Air		2.2 - 118 kg/day	

Workers

ECETOC TRA Version 2 with modifications has been used

Workplace measurements

Tremplace medicarement				
Contributing Scenario	Specific conditions	Exposure routes	Level of Exposure	RCR
	8 hours/day, Modeled exposure data	Inhalation worker exposure	7.9mg/m³	
PROC1	8 hours/day, Modeled exposure data	Inhalation worker exposure	0.01mg/m³	
PROC2	8 hours/day, Modeled exposure data	Inhalation worker exposure	0.5mg/m³	
PROC3, PROC22	8 hours/day, Modeled exposure data	Inhalation worker exposure	1mg/m³	
PROC4, PROC8a, PROC8b, PROC9	8 hours/day, Modeled exposure data	Inhalation worker exposure	5mg/m³	
PROC9	1.6			

Measured exposure data.

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Guidance is based on assumed operating conditions which may not be applicable to all sites. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Not applicable

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1. Short title of Exposure Scenario 2: Formulation & (re)packing of substances and mixtures		
Main User Groups	SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites	
Sectors of end-use	SU 10: Formulation [mixing] of preparations and/ or re-packaging (excluding alloys)	
Process categories	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact) PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelletisation PROC15: Use as laboratory reagent	
Environmental Release Categories	ERC2: Formulation of preparations	

2.1 Contributing scenario controlling environmental exposure for: ERC2

Amount used	Annual amount per site	<= 5000 ton(s)/year
Frequency and duration of use	Continuous exposure	Continuous release
Technical conditions and measures at process level to prevent release Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil Organizational measures to prevent/limit release from the site	Air	Exhaust ventilation equipped with filters.
Conditions and measures related to sewage treatment plant	Sludge Treatment	pH adjustment
Conditions and measures related to external treatment of waste for disposal	Waste treatment	No specific waste treatment required/proposed

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15

Product characteristics	Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100 %.
	Physical Form (at time of use)	solid
	During use, dust is formed.	
Frequency and duration of use	Frequency of use	8 hours/day

3. Exposure estimation and reference to its source

Environment

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Contributing Scenario	Specific conditions	Compartment	Value	Level of Exposure	RCR
		Air		2.7 kg/day	

Exposure is considered negligible.

Workers

PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15: ECETOC TRA Version 2 with modifications has been used

Contributing Scenario	Specific conditions	Exposure routes	Level of Exposure	RCR
PROC1		Inhalation worker exposure	0.01mg/m³	
PROC2, PROC15		Inhalation worker exposure	0.5mg/m³	
PROC3		Inhalation worker exposure	1mg/m³	
PROC4, PROC5, PROC8a, PROC8b, PROC9		Inhalation worker exposure	5mg/m³	
PROC14		Inhalation worker exposure	1mg/m³	

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Guidance is based on assumed operating conditions which may not be applicable to all sites. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

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SU 3: Industrial uses: Uses of substances as such or in preparations at industria sites	1. Short title of Exposure Sco	enario 3: Use in glass pr	oduction		
exposure or processes with equivalent containment conditions PROC2: Use in dosed, continuous process with occasional controlled exposure PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to exposure arises PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to exposure arises PROC2b: Manufacturing and processing of minerals and/or metals at substantially elevated temperature PROC22: Manufacturing and processing of minerals and/or metals at elevated temperature PROC23: Open processing and transfer operations with minerals/ metals at elevated temperature PROC25: Handling of solid inorganic substances at ambient temperature PROC26: Handling of solid inorganic substances at ambient temperature PROC26: Handling of solid inorganic substances at ambient temperature PROC26: Handling of solid inorganic substances at ambient temperature PROC26: Handling of solid inorganic substances at ambient temperature PROC26: Handling of solid inorganic substances at ambient temperature PROC26: Handling of solid inorganic substances at ambient temperature PROC26: Handling of solid inorganic substances at ambient temperature PROC26: Handling of solid inorganic substances at ambient temperature PROC26: Handling of solid inorganic substances at ambient temperature PROC26: Handling of solid inorganic substances at ambient temperature PROC28: Process level to prevent release Prequency and duration of use Air	Main User Groups		SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites		
2.1 Contributing scenario controlling environmental exposure for: ERC6a Amount used Annual amount per site 200000 ton(s)/year Frequency and duration of use Continuous exposure Continuous release Technical conditions and measures at process level to prevent release Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil Organizational measures to prevent/limit release from the site Conditions and measures related to sewage treatment plant Conditions and measures related to external treatment of waste for disposal 2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC3b, PROC22, PROC23, PROC26 Product characteristics Conditions and measures related to external treatment of waste for disposal Conditions and measures related to external treatment of waste for disposal Concentration of the Substance in Mixture/Article Physical Form (at time of use) During use, dust is formed. Frequency and duration of use Other operational conditions Intermediates (200000 ton(s)/year 200000 ton(s)/year 2000000 ton(s)/year 200000000000000000000000000000000000		exposure or processes with PROC2: Use in closed, corprocesses with occasional acontainment condition PROC4: Use in batch and exposure arises PROC8a: Transfer of subsvessels/ large containers at PROC8b: Transfer of subsvessels/ large containers at PROC22: Manufacturing a substantially elevated temp PROC23: Open processing elevated temperature PROC26: Handling of solic	requivalent containment conditions intinuous process with occasional controlled exposure rmulation in the chemical industry in closed batch controlled exposure or processes with equivalent other process (synthesis) where opportunity for tance or preparation (charging/ discharging) from/ to a non-dedicated facilities tance or preparation (charging/ discharging) from/ to a dedicated facilities and processing of minerals and/or metals at erature g and transfer operations with minerals/ metals at l inorganic substances at ambient temperature		
Amount used Annual amount per site 200000 ton(s)/year			Ilting in manufacture of another substance (use of		
Frequency and duration of use Technical conditions and measures at process level to prevent release Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil Organizational measures to prevent/limit release from the site Conditions and measures related to sewage treatment plant Conditions and measures related to external treatment of waste for disposal 2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC22, PROC23, PROC26 Product characteristics Continuous release Air Exhaust ventilation equipped with filters.	2.1 Contributing scenario co	ntrolling environmental	exposure for: ERC6a		
Technical conditions and measures at process level to prevent release Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil Organizational measures to prevent/limit release from the site Conditions and measures related to sewage treatment plant Conditions and measures related to external treatment of waste for disposal 2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC22, PROC23, PROC26 Product characteristics Concentration of the Substance in Mixture/Article Physical Form (at time of use) During use, dust is formed.	Amount used	Annual amount per site	200000 ton(s)/year		
measures at process level to prevent release Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil Organizational measures to prevent/limit release from the site Conditions and measures related to sewage treatment plant Conditions and measures related to external treatment of waste for disposal 2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC22, PROC23, PROC26 Product characteristics Concentration of the Substance in Mixture/Article Physical Form (at time of use) During use, dust is formed. Frequency and duration of use Other operational conditions Solid, medium dustiness	Frequency and duration of use	Continuous exposure	Continuous release		
to sewage treatment plant Conditions and measures related to external treatment of waste for disposal 2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC22, PROC23, PROC26 Concentration of the Substance in Mixture/Article Physical Form (at time of use) During use, dust is formed. Frequency and duration of use Frequency and duration of use To sewage treatment required/proposed No specific waste treatment required/proposed Concentration of: PROC1, PROC2, PROC3, PROC4, PROC3, PROC4, PROC3, PROC4, PROC8 PROC6, PROC6	measures at process level to prevent release Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil Organizational measures to				
to external treatment of waste for disposal 2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC22, PROC23, PROC26 Concentration of the Substance in Mixture/Article Physical Form (at time of use) During use, dust is formed. Frequency and duration of use Frequency and duration of use Other operational conditions Solid, medium dustiness			rols are not applicable as there is no direct release to		
2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC22, PROC23, PROC26 Concentration of the Substance in Mixture/Article Physical Form (at time of use) During use, dust is formed. Frequency and duration of use Trequency and duration of use Solid, medium dustiness Solid, medium dustiness	to external treatment of waste for	Waste treatment	No specific waste treatment required/proposed		
Product characteristics Substance in Mixture/Article Physical Form (at time of use) During use, dust is formed. Frequency and duration of use Other operational conditions Substance in product: 5% - 25% solid solid Solid Number of use 8 hours/day Solid, medium dustiness	2.2 Contributing scenario co		re for: PROC1, PROC2, PROC3, PROC4,		
Physical Form (at time of use) solid During use, dust is formed. Frequency and duration of use Frequency of use 8 hours/day Other operational conditions Solid, medium dustiness		Substance in	Concentration of substance in product: 5% - 25%		
Frequency and duration of use Frequency of use 8 hours/day Other operational conditions Solid, medium dustiness	Product characteristics	use)			
Other operational conditions Solid, medium dustiness	Eroquopov and duration of trac		T		
	Other operational conditions		8 nours/day		

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ΕN

Exposure is considered negligible.

Workers

PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC22, PROC23: ECETOC TRA Version 2 with modifications has been used

modification and account account				
Contributing Scenario	Specific conditions	Exposure routes	Level of Exposure	RCR
PROC1		Inhalation worker exposure	0.01 mg/m³	
PROC2		Inhalation worker exposure	0.5 mg/m³	
PROC3		Inhalation worker exposure	1 mg/m³	
PROC4, PROC8a, PROC8b		Inhalation worker exposure	5 mg/m³	
PROC22, PROC23		Inhalation worker exposure	1 mg/m³	

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

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

1. Short title of Exposure	Scenario 4: Industrial use
Main User Groups	SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Process categories	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC7: Industrial spraying PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10: Roller application or brushing PROC13: Treatment of articles by dipping and pouring PROC15: Use as laboratory reagent PROC17: Lubrication at high energy conditions and in partly open process PROC18: Greasing at high energy conditions PROC19: Hand-mixing with intimate contact and only PPE available PROC22: Manufacturing and processing of minerals and/or metals at substantially elevated temperature PROC23: Open processing and transfer operations with minerals/ metals at elevated temperature PROC26: Handling of solid inorganic substances at ambient temperature
Environmental Release Categories	ERC4: Industrial use of processing aids in processes and products, not becoming part of articles ERC5: Industrial use resulting in inclusion into or onto a matrix ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates) ERC6b: Industrial use of reactive processing aids
	ERC6d: Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers ERC7: Industrial use of substances in closed systems

2.1 Contributing scenario controlling environmental exposure for: ERC4, ERC5, ERC6a, ERC6b, ERC6d, ERC7

Amount used	Annual amount per site	<= 100000 ton(s)/year	
Frequency and duration of use	Continuous exposure	Continuous release	
Technical conditions and measures at process level to	Air	Exhaust ventilation equipped with filters.	
prevent release Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil Organizational measures to prevent/limit release from the site			
Conditions and measures related	Sludge Treatment	pH adjustment	
to sewage treatment plant	No specific measures required.		
Conditions and measures related	140 Wasiewater treatment required.		
to external treatment of waste for disposal			

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC15, PROC17, PROC18, PROC19, PROC22, PROC23, PROC26

Bulling	Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100 %.
Product characteristics	Physical Form (at time of use)	solid
	During use, dust is formed.	
Frequency and duration of use	Frequency of use	> 8 hours/day

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Specific conditions	Compartment	Value	Level of Exposure	RCR
		Air			
		Soil			

Small releases might be possible. Exposure is considered negligible.

Workers

Contributing Scenario	Specific conditions	Exposure routes	Level of Exposure	RCR
PROC1		Inhalation worker exposure	0.01mg/m³	
PROC2	solid	Inhalation worker exposure	0.5mg/m³	
PROC3	solid	Inhalation worker exposure	1mg/m³	
PROC4, PROC8a, PROC19		Inhalation worker exposure	5mg/m³	
PROC8b, PROC9, PROC15, PROC26	solid	Inhalation worker exposure	5mg/m³	
PROC7		Inhalation worker exposure	0.022mg/m³	
PROC17, PROC18	liquid	Inhalation worker exposure	0.022mg/m³	
PROC22, PROC23		Inhalation worker exposure	1mg/m³	

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Guidance is based on assumed operating conditions which may not be applicable to all sites. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

1. Short title of Exposure	Scenario 5: Professional use
Main User Groups	SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Chemical product category	PC0: Other PC1: Adhesives, sealants PC2: Adsorbents PC3: Air care products PC4: Anti-Freeze and de-icing products PC4: Anti-Freeze and de-icing products PC6: Biocidal products (e.g. Disinfectants, pest control) PC9a: Coatings and paints, thinners, paint removers PC9b: Fillers, putties, plasters, modelling clay PC9c: Finger paints PC11: Explosives PC12: Fertilizers PC13: Fuels PC14: Metal surface treatment products, including galvanic and electroplating products PC15: Non-metal-surface treatment products PC16: Heat transfer fluids PC17: Hydraulic fluids PC17: Hydraulic fluids PC18: Ink and toners PC19: Intermediate PC20: Products such as pH-regulators, flocculants, precipitants, neutralization agents PC21: Laboratory chemicals PC23: Leather treatment products PC24: Lubricants, greases, release products PC26: Paper and board dye, finishing and impregnation products: including bleaches and other processing aids PC27: Plant protection products PC28: Perfumes, fragrances PC29: Pharmaceuticals PC30: Polishes and wax blends PC31: Polishes and wax blends PC32: Polymer preparations and compounds PC33: Semiconductors PC34: Textile dyes, finishing and impregnating products; including bleaches and other processing aids PC35: Washing and cleaning products PC36: Water softeners PC37: Water treatment chemicals PC38: Welding and soldering products (with flux coatings or flux cores.), flux products PC38: Welding and soldering products PC39: Cosmetics, personal care products
Process categories	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions PROC2: Use in closed, continuous process with occasional controlled exposure PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

WaterJ	ems	l Ha	Incr	easer
	••••	P		

	PROC11: Non industrial spraying PROC13: Treatment of articles by dipping and pouring PROC15: Use as laboratory reagent PROC19: Hand-mixing with intimate contact and only PPE available
Environmental Release Categories	ERC8a: Wide dispersive indoor use of processing aids in open systems ERC8b: Wide dispersive indoor use of reactive substances in open systems ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix ERC8d: Wide dispersive outdoor use of processing aids in open systems ERC8e: Wide dispersive outdoor use of reactive substances in open systems ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix ERC9a: Wide dispersive indoor use of substances in closed systems ERC9b: Wide dispersive outdoor use of substances in closed systems

2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC9a, ERC9b

Amount used	Annual amount per site	100000 ton(s)/year	
Frequency and duration of use	Continuous exposure	Continuous release	
Technical conditions and	Air	Exhaust ventilation equipped with filters.	
measures at process level to prevent release Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil Organizational measures to prevent/limit release from the site			
Conditions and measures related	Sludge Treatment	pH adjustment	
to sewage treatment plant	No specific measures required.		

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC15, PROC19

	, ,	•		
Decident allows statistics	Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100 %.		
Product characteristics	Physical Form (at time of use)	solid		
	During use, dust is formed.	During use, dust is formed.		
	Exposure duration per day	<= 15 min(Solid, medium dustiness PROC1, PROC2)		
Frequency and duration of use	Exposure duration per day	<= 60 min(Liquid preparations PROC8a, PROC8b, PROC13, PROC15, PROC19)		
	Exposure duration per day	<= 60 min(Solid, medium dustiness PROC19)		

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Specific conditions	Compartment	Value	Level of Exposure	RCR
		Water			
		Air			
	Professional agricultural	Soil		<= 0.0126kg/ha	

Exposure is considered negligible.

Workers

Contributing Scenario	Specific conditions	Exposure routes	Level of Exposure	RCR
PROC1	liquid	Inhalation worker exposure	0.0044mg/m³	
PROC1	solid	Inhalation worker exposure	0.001mg/m³	
PROC2, PROC3, PROC4, PROC9	liquid	Inhalation worker exposure	0.044mg/m³	
PROC2	solid	Inhalation worker exposure	0.1mg/m³	
PROC5	solid	Inhalation worker exposure	5mg/m³	
PROC8a, PROC8b, PROC13, PROC15, PROC19	liquid	Inhalation worker exposure	0.088mg/m³	
PROC8a, PROC19	solid	Inhalation worker exposure	1mg/m³	
PROC10, PROC11	liquid	Inhalation worker exposure	0.44mg/m³	

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Guidance is based on assumed operating conditions which may not be applicable to all sites. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

1. Short title of Exposu	e Scenario 6: Consumer use
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1. Short title of Exposure Sci	1. Short title of Exposure Scenario 6: Consumer use				
Main User Groups	SU 21: Consumer uses: Private households (= general public = consumers)				
Chemical product category	PC1: Adhesives, sealants PC2: Adsorbents PC3: Air care products PC4: Anti-Freeze and de-icing products PC7: Base metals and alloys PC8: Biocidal products (e.g. Disinfectants, pest control) PC9a: Coatings and paints, thinners, paint removers PC9b: Fillers, putties, plasters, modelling clay PC9c: Finger paints PC0: Other PC11: Explosives PC12: Fertilizers PC13: Fuels PC14: Metal surface treatment products, including galvanic and electroplating products PC15: Non-metal-surface treatment products PC16: Heat transfer fluids PC17: Hydraulic fluids PC18: Ink and toners PC19: Intermediate PC20: Products such as pH-regulators, flocculants, precipitants, neutralization agents PC21: Laboratory chemicals PC21: Laboratory chemicals PC23: Leather treatment products PC24: Lubricants, greases, release products PC24: Lubricants, greases, release products PC26: Paper and board dye, finishing and impregnation products: including bleaches and other processing aids PC27: Plant protection products PC28: Perfumes, fragrances PC29: Pharmaceuticals PC30: Polishes and wax blends PC31: Polishes and wax blends PC32: Polymer preparations and compounds PC33: Semiconductors PC34: Textile dyes, finishing and impregnating products; including bleaches and other processing aids PC35: Washing and cleaning products PC36: Water softeners PC37: Vater treatment chemicals PC38: Welding and soldering products (with flux coatings or flux cores.), flux products PC39: Cosmetics, personal care products				
Environmental Release Categories	ERC8a: Wide dispersive indoor use of processing aids in open systems ERC8b: Wide dispersive indoor use of reactive substances in open systems ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix ERC8d: Wide dispersive outdoor use of processing aids in open systems ERC8e: Wide dispersive outdoor use of reactive substances in open systems ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix ERC9a: Wide dispersive indoor use of substances in closed systems ERC9b: Wide dispersive outdoor use of substances in closed systems				
Activity	Note: this Exposure Scenario is only relevant for an appropriated use according to the quality grade of the substance delivered				

2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC9a, ERC9b

WaterJems pH Increaser				
Amount used	The amount of substance used is not considered relevant for these operations.			
Frequency and duration of use	Continuous exposure	Not relevant		
2.2 Contributing scenario co	ntrolling consumer expe	osure for: PC35: Laundry regular, PC35: : Dish washing products, PC35: Surface		
Product characteristics	Concentration of the Substance in Mixture/Article	Covers concentrations up to 30%		
	Physical Form (at time of use)	liquid, solid, powder		
Amount used		<= 37 g/l		
Frequency and duration of use	Frequency of use	1 events/week		
Conditions and measures related to protection of consumer (e.g. behavioural advice, personal protection and hygiene)	Consumer Measures	Keep out of the reach of children. In case of contact with eyes, rinse immediately with plenty of water		
2.6 Contributing scenario co	ntrolling consumer expe	osure for: PC3		
Product characteristics	Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 5%.		
Froduct characteristics	Physical Form (at time of use)	liquid, solid		
Amount used	ed <= 37 g/l			
Frequency and duration of use	Frequency of use	1 events/week		
Conditions and measures related to protection of consumer (e.g. behavioural advice, personal protection and hygiene)	Consumer Measures	Keep out of the reach of children. In case of contact with eyes, rinse immediately with plenty of water		
2.7 Contributing scenario co	ntrolling consumer expe	osure for: PC31		
Product characteristics	Concentration of the Substance in Mixture/Article	Covers concentrations up to 10%		
Troduct characteristics	Physical Form (at time of use)	liquid, solid		
Amount used		<= 37 g/l		
Frequency and duration of use	Frequency of use	1 events/week		
Conditions and measures related to protection of consumer (e.g. behavioural advice, personal protection and hygiene) Consumer Measures		Keep out of the reach of children. In case of contact with eyes, rinse immediately with plenty of water		
3. Exposure estimation and	reference to its source			
Environment Exposure is considered negligible				
Consumers				
PC35: REACT (Reach Exposur	re Assessment Consumer To	pol)		
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Contributing Scenario	Specific conditions	Exposure routes	Level of Exposure	RCR
PC35	Laundry regular, powder	Consumer - dermal, long-term - systemic	0.0156mg/kg bw/day	
PC35	Laundry regular, liquid	Consumer - dermal, long- term - systemic	0.0229mg/kg bw/day	
PC35	Laundry compact, powder	Consumer - dermal, long- term - systemic	0.0160mg/kg bw/day	
PC35	Laundry compact, liquid	Consumer - dermal, long- term - systemic	0.0229mg/kg bw/day	
PC35	Laundry additive, Laundry bleaching/pre- treatment	Consumer - dermal, long- term - systemic	0.0221mg/kg bw/day	
PC35	Hand dishwashing liquids	Consumer - dermal, long- term - systemic	0.000312mg/kg bw/day	
PC35	Surface cleaners, gel	Consumer - dermal, long- term - systemic	0.0429mg/kg bw/day	

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Guidance is based on assumed operating conditions which may not be applicable to all sites. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.