		SAFETY	DATA SHEET	TIERR		
		according to Regulation (EC)	No 1907/2006 (REACH) as	amended		
	PUER	– Oxygen stain rer	mover and blea	ching powder		
Creat	ion date	01st June 2018				
Revis	ion date	09th March 2021	Version	2.0		
SECTI	ON 1: Identification	of the substance/mixture and o	of the company/undertakin	g		
1.1.	Product identifier	r	PUER – Oxygen sta	in remover and bleaching powder		
	Substance / mixtu	ire	substance			
	Chemical name		Sodium percarbon	ate		
	CAS number		15630-89-4			
	EC (EINECS) numb	ber	239-707-6			
	Registration num	ber	01-2119457268-30	D-XXXX		
	Other substance r	name	Bleaching powder	and oxygen-based stain remover.		
1.2.	Relevant identifie	ed uses of the substance or mixt	ure and uses advised again	st		
	Substance's intended use					
	The product is int	ended for sale to the consumer a	and the professional/indust	rial use. Cleaning agent.		
	<b>The use des</b> PC 35	scriptors Washing and cleaning	products			
	С	Consumer use				
	Substance uses a	dvised against				
		Id not be used in ways other the	n those referred in Section	1		
				±.		
	Main intended us					
	PC-DET-1.2	Laundry detergents - house	iold use			
1.3.	-	plier of the safety data sheet				
	Manufacturer					
	Name or tra	ade name	TIERRA VERDE s.r.o			
	Address		Makovského nám.	2, Brno, 61600		
			Czech Republic			
		on number (CRN)	28280725			
	VAT Reg No		CZ28280725			
	Phone		+420 511119820			
	E-mail		info@tierraverde.cz			
	Web addres		www.tierraverde.cz			
	Competent person responsible for the safety d					
	Name		TIERRA VERDE s.r.o.			
	E-mail		info@tierraverde.o	CZ		
1.4.	Emergency teleph					
	European emerge	ency number: 112				

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

**Classification of the substance in accordance with Regulation (EC) No 1272/2008** The substance is classified as dangerous.

Ox. Sol. 2, H272 Acute Tox. 4, H302 Eye Dam. 1, H318

Full text of all classifications and hazard statements is given in the section 16.

according to Regulation (EC) No 1907/2006 (REACH) as amended

### PUER – Oxygen stain remover and bleaching powder

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### Most serious adverse physico-chemical effects

May intensify fire; oxidiser.

### Most serious adverse effects on human health and the environment

Harmful if swallowed. Causes serious eye damage.

### 2.2. Label elements

#### Hazard pictogram



Danger

### **Dangerous substance**

Sodium percarbonate (EC: 239-707-6; CAS: 15630-89-4)

### Hazard statements

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

### **Precautionary statements**

riccautionary staten	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220	Keep away from clothing and other combustible materials.
P280	Wear protective gloves/eye protection.
P501	Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier.
P305+P351+P338+ P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER.

### **Supplemental information**

>=30 % oxygen-based bleaching agents

Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger.

### 2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

according to Regulation (EC) No 1907/2006 (REACH) as amended

### PUER – Oxygen stain remover and bleaching powder

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### **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

### **Chemical characterization**

Mixture of substances and additives specified below.

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
	substance main component			
CAS: 15630-89-4 EC: 239-707-6 Registration number: 01-2119457268-30- XXXX	Sodium percarbonate	>85	Ox. Sol. 2, H272 Acute Tox. 4, H302 Eye Dam. 1, H318 Specific concentration limit: Eye Dam. 1, H318: $C \ge 25 \%$ Eye Irrit. 2, H319: 7,5 % < C < 25 % Acute Tox. 4, H302: $C \ge 25 \%$	
Index: 011-005-00-2 CAS: 497-19-8 EC: 207-838-8	natrii carbonas	<10	Eye Irrit. 2, H319	

Full text of all classifications and hazard statements is given in the section 16.

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

### If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

### If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

### If in eyes

Do not rub your eyes – it could lead to mechanical damage of the cornea. Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

### If swallowed

DO NOT INDUCE VOMITING! Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment

according to Regulation (EC) No 1907/2006 (REACH) as amended

### PUER – Oxygen stain remover and bleaching powder

Creat	ion date	date 01st June 2018								
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4.2.	Most importa	Most important symptoms and effects, both acute and delayed								
	If inhaled									
	Inhaling dust o	can cause corrosion of the breathing	g system.							
	If on skin									
	Not expected.									
	If in eyes									
	Causes serious	s eye damage.								
	If swallowed									
	Corrosion of the digestion system can occur.									
4.3.	Indication of any immediate medical attention and special treatment needed									
	Symptomatic t	treatment.								
	ON 5: Firefightin	-								
5.1.	Extinguishing media									
	Suitable extinu	guiching modia								

### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

### Unsuitable extinguishing media

Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

### 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

### **SECTION 6: Accidental release measures**

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

Provide sufficient ventilation. May intensify fire; oxidiser. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes.

### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

### 6.3. Methods and material for containment and cleaning up Place the product mechanically in an appropriate manner. Dispose of the collected material according to the instructions in the section 13.

### 6.4. Reference to other sections

See the Section 7, 8 and 13.

according to Regulation (EC) No 1907/2006 (REACH) as amended

### PUER – Oxygen stain remover and bleaching powder

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SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use of antistatic clothes and footwear is recommended. Prevent contact with skin and eyes. No smoking. Do not eat, drink or smoke when using this product. Wash hands and exposed parts of the body thoroughly after handling. Take any precaution to avoid mixing with combustibles. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight.

### 7.3. Specific end use(s)

not available

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set. **DNEL** 

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Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	10 mg/m³	Local chronic effects	
Consumers	Inhalation	10 mg/m³	Local acute effects	

### PUER – Oxygen stain remover and bleaching powder

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	5 mg/m³	Local chronic effects	
Workers	Dermal	12.8 mg/kg bw	Local chronic effects	
Consumers	Dermal	6.4 mg/kg bw	Local chronic effects	

PNEC

### PUER – Oxygen stain remover and bleaching powder

Route of exposure	Value	Determining method
Freshwater environment	0.035 mg/l	
Seawater	0.035 mg/l	
Microorganisms in wastewater treatment plants	16.24 mg/l	

according to Regulation (EC) No 1907/2006 (REACH) as amended

### PUER – Oxygen stain remover and bleaching powder

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### 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

### Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

### Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

### **Respiratory protection**

Use a mask with anti-dust filter when the exposition limits of the substances are exceeded or at the place with insufficient ventilation.

### **Thermal hazard**

Not available.

### **Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2.

### **SECTION 9: Physical and chemical properties**

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

internation on addre prijorear and enernear properties	
Physical state	solid
Color	white
Odour	without fragrance
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	Incite burning
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	140 °C
рН	10,4-10,6 (0,01% solution at 25 °C)
Kinematic viscosity	data not available
Solubility in water	147 g/l 20 °C, 175 g/l (30 °C)
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	data not available
Relative density	2,01 - 2,16
Other information	
Explosive properties	The product does not have explosive properties.
Active oxygen content: 13.0 - 13.5%	
Humidity: max 1.0%	
Particle size:> 0.1 mm (95%)	

9.2.

according to Regulation (EC) No 1907/2006 (REACH) as amended

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Creati	on date	01st June 2018				
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SECTIO	ON 10: Stability and r	eactivity				
10.1.	Reactivity					
	not available					
10.2.	Chemical stability					
	The product is stabl	e under normal conditions.				
10.3.	Possibility of hazar	dous reactions				
	Unknown.					
10.4.	Conditions to avoid	l				
	The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating an against frost.					
10.5.	Incompatible mate	rials				
	Protect against strong acids, bases and oxidizing agents.					
10.6.	Hazardous decomp	osition products				
	Not developed und high temperature a	•	itcomes such as carbon mo	noxide and carbon dioxide are formed at		

### **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological data is available for the mixture.

### Acute toxicity

Harmful if swallowed.

natrii carbonas

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Source
Oral	LD₅o	4090 mg/kg		Rat (Rattus		
				norvegicus)		
Inhalation	LD₅o	2300 mg/l	2 hour	Rat (Rattus		
(aerosols)				norvegicus)		
Skin	LD₅o	2210 mg/kg		Mouse		
Intraperitoneally	LD₅₀	117 mg/kg		Mouse		

PUER – Oxygen stain remover and bleaching powder

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Source
Oral	LD <sub>50</sub>	1034 mg/kg		Rat (Rattus norvegicus)		
Dermal	LD₅o	>2000 mg/kg		Rabbit		
Inhalation	LD <sub>50</sub>	>170 mg/m <sup>3</sup>	4 hour	Rat (Rattus norvegicus)		peroxid vodíku
Inhalation	LD₅₀	1200 mg/m <sup>3</sup>		Rat (Rattus norvegicus)		pro uhličitan sodný

according to Regulation (EC) No 1907/2006 (REACH) as amended

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### Sodium percarbonate

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Source
Oral	LD₅o	1034 mg/kg		Rat (Rattus norvegicus)		
Oral	LD <sub>50</sub>	2200 mg/kg		Mouse	F	
Oral	LD <sub>50</sub>	2050 mg/kg		Mouse	М	
Dermal	LD <sub>50</sub>	>2000 mg/kg		Rabbit		
Inhalation (aerosols)	LC <sub>50</sub>	=>170 mg/m <sup>3</sup>	4 hour	Rat (Rattus norvegicus)		
Inhalation (aerosols)	LC <sub>50</sub>	=1200 mg/m <sup>3</sup>		Rat (Rattus norvegicus)		

### Skin corrosion/irritation

Based on available data the classification criteria are not met.

### Serious eye damage/irritation

Causes serious eye damage.

#### PUER – Oxygen stain remover and bleaching powder

Route of exposure	Result	Time of exposure	Species
Еуе	Corrosive	72 hour ( 10 mg )	Rabbit
Еуе	Corrosive	48 hour (50 mg )	Rabbit

### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

### Germ cell mutagenicity

Based on available data the classification criteria are not met.

### Carcinogenicity

Based on available data the classification criteria are not met.

### **Reproductive toxicity**

Based on available data the classification criteria are not met.

### Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

### Aspiration hazard

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. Based on available data the classification criteria are not met.

according to Regulation (EC) No 1907/2006 (REACH) as amended

### PUER – Oxygen stain remover and bleaching powder

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### 11.2. Information on other hazards

not available

### **SECTION 12: Ecological information**

### 12.1. Toxicity

### Acute toxicity

PUER – Oxygen stain remover an	nd bleaching powder
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Parameter	Value	Time of exposure	Species	Environment
LC <sub>50</sub>	70.7 mg/l	96 hour	Fishes (Pimephales promelas)	
NOEC	7.4 mg/l	96 hour	Fishes (Pimephales promelas)	
EC₅o	4.9 mg/l	48 hour	Crustaceans (Daphnia pulex)	

### 12.2. Persistence and degradability

Data not available.

- 12.3. Bioaccumulative potential
  - Not available.

### 12.4. Mobility in soil

Not available.

### 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

### 12.6. Endocrine disrupting properties

not available

### 12.7. Other adverse effects

Not available.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

		SAFETY	<b>DATA SHEE</b>	Г	TIERRA		
		according to Regulation (E	C) No 1907/2006 (REACH)	as amended	VERDE		
	Pl	JER – Oxygen stain re			r		
Creati	on date	01st June 2018		<u> </u>			
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	Waste type	e code					
	16 03 03	inorganic wastes containing hazar	dous substances *				
	15 02 02	absorbents, filter materials (incl clothing contaminated by hazardo	-	rwise specified), wiping	cloths, protective		
	Packaging v	waste type code					
	15 01 10	packaging containing residues of	or contaminated by hazar	dous substances *			
	(*) - Hazard	lous waste according to Directive 200	8/98/EC on hazardous wa	ste			
SECTIO	ON 14: Transı	port information					
14.1.	=	r or ID number					
	UN 3378						
14.2.	UN proper	shipping name					
	SODIUM CA	ARBONATE PEROXYHYDRATE					
14.3.	Transport h	nazard class(es)					
	5.1 Oxidazing substances						
14.4.	Packing group						
	III - substan	ces presenting low danger					
14.5.	Environme	ntal hazards					
	not availab						
14.6.	Special pre	cautions for user					
		n the Sections 4 to 8.					
14.7.		ransport in bulk according to IMO ins	struments				
	not availab						
		information					
		d identification No.	50				
	UN nu		3378				
		ication code	02				
	Safety	signs	5.1				

### **SECTION 15: Regulatory information**

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as ammended.

according to Regulation (EC) No 1907/2006 (REACH) as amended

### PUER – Oxygen stain remover and bleaching powder

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15.2. Chemical safety assessment

not available

### **SECTION 16: Other information**

A list of standard risk	c phrases used in the safety data sheet
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
Guidelines for safe ha	andling used in the safety data sheet
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220	Keep away from clothing and other combustible materials.
P280	Wear protective gloves/eye protection.
P501	Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier.
P305+P351+P338+ P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER.
Other important info	rmation about human health protection
	t be - unless specifically approved by the manufacturer/importer - used for purposes other than The user is responsible for adherence to all related health protection regulations.
Key to abbreviations	and acronyms used in the safety data sheet
ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EC	Identification code for each substance listed in EINECS
EC₅o	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
ΙΑΤΑ	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC <sub>50</sub>	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry

according to Regulation (EC) No 1907/2006 (REACH) as amended



### PUER – Oxygen stain remover and bleaching powder

IOLN	Oxygen Stanne					
Creation date	01st June 2018					
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LC <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the					
	population					
LD₅o	Lethal dose of a substance	in which it can be expected	d death of 50% of the population			
LOAEC		Lowest observed adverse effect concentration				
LOAEL	Lowest observed adverse e	ffect level				
log Kow	Octanol-water partition coe	efficient				
MARPOL	International Convention for	or the Prevention of Polluti	on From Ships			
NOAEC	No observed adverse effect concentration					
NOAEL	No observed adverse effect	: level				
NOEC	No observed effect concentration					
NOEL	No observed effect level					
OEL	Occupational Exposure Limits					
PBT	Persistent, Bioaccumulative and Toxic					
PNEC	Predicted no-effect concentration					
ppm	Parts per million					
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals					
RID	Agreement on the transport of dangerous goods by rail					
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations Substances of unknown or variable composition, complex reaction products or biological materials					
UVCB						
VOC	Volatile organic compounds					
vPvB	Very Persistent and very Bioaccumulative					
Acute Tox.	Acute toxicity					
Eye Dam.	Serious eye damage					
Eye Irrit.	Eye irritation					
Ox. Sol.	Oxidising solid					
Training guidelines	;					
		c				

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### **Recommended restrictions of use**

not available

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### The changes (which information has been added, deleted or modified)

Version 2.0 replaces the MSDS version from 01.10.2020. The changes were made in sections 2, 15 and 16.

### More information

Classification procedure - calculation method.

### Statement

according to Regulation (EC) No 1907/2006 (REACH) as amended

### PUER – Oxygen stain remover and bleaching powder

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The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.