Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 25.03.2021 Version number 4.00 Revision: 25.03.2021

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

· **1.1 Product identifier**

· **Trade name: Viva Superox**

· **Article number:** 10771/4.00
· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
· **Life cycle stages** PW Widespread use by professional workers
· **Sector of Use**
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
· **Application of the substance / the mixture**
Laundry
Bleaching agent

· **1.3 Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
SEITZ GmbH
Gutenbergstrasse 1 - 3
65830 Kriftel / Germany
Tel. + 49(0) 6192-9948-0
Fax + 49(0) 6192-9948-99
order@seitz24.com
www.seitz24.com

· **Further information obtainable from:** sds@seitz24.com
· **1.4 Emergency telephone number:** GIZ-Nord, Göttingen, Germany + 49 551 19240

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**

Acute Tox. 4	H302 Harmful if swallowed.
Acute Tox. 4	H332 Harmful if inhaled.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Dam. 1	H318 Causes serious eye damage.
STOT SE 3	H335 May cause respiratory irritation.

· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
· **Hazard pictograms**

GHS05 GHS07

· **Signal word** Danger

· **Hazard-determining components of labelling:**
hydrogen peroxide

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· **Hazard statements**
H302+H332 Harmful if swallowed or if inhaled.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
· **Precautionary statements**
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
· **Additional information:**
Product contains: Restricted explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 5 (1) and (3).
· **2.3 Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Dangerous components:**

CAS: 7722-84-1 EINECS: 231-765-0 Reg.nr.: 01-2119485845-22-xxxx	hydrogen peroxide Ox. Liq. 1, H271; Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H335; Aquatic Chronic 3, H412 Specific concentration limits: Ox. Liq. 1; H271: C ≥ 70 % Ox. Liq. 2; H272: 50 % ≤ C < 70 % Skin Corr. 1A; H314: C ≥ 70 % Skin Corr. 1B; H314: 50 % ≤ C < 70 % Skin Irrit. 2; H315: 35 % ≤ C < 50 % Eye Dam. 1; H318: C ≥ 8 % Eye Irrit. 2; H319: 5 % ≤ C < 8 % STOT SE 3; C ≥ 35 %	25 – 50%

· **Regulation (EC) No 648/2004 - Labelling for contents**

oxygen-based bleaching agents	≥30%

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

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SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **General information**
Immediately remove any clothing soiled by the product.
Remove casualties from exposure.
Keep unprotected persons away.
Personal protection for the First Aider.
· **After inhalation** Supply fresh air or oxygen; call for doctor.
· **After skin contact**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
· **After eye contact**
Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.
· **4.2 Most important symptoms and effects, both acute and delayed**
Eye damage
Skin irritation
May cause respiratory irritation.
Coughing
If swallowed or in case of vomiting, danger of entering the lungs.
· **4.3 Indication of any immediate medical attention and special treatment needed**
Symptomatic treatment

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents**
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **For safety reasons unsuitable extinguishing agents** Organic compounds
· **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
Product is fire encouraging.
· **5.3 Advice for firefighters**
· **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Wear self-contained respiratory protective device.
· **Additional information**
Cool endangered receptacles with water spray.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Avoid contact with skin and eyes.

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Ensure adequate ventilation
Do not breathe gases/ vapours.

· **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.

· **6.3 Methods and material for containment and cleaning up:**
Dilute with plenty water.
Absorb with liquid-binding material (sand, diatomite)
Dispose of the material collected according to regulations.

· **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**
Keep away from heat and direct sunlight.
Avoid contact with eyes and skin.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Do not refill residue into storage receptacles.

· **Information about fire - and explosion protection:**
The product is not flammable
Product is fire encouraging.
Protect from heat.
Keep ignition sources away - Do not smoke.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.

· **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from flammable substances.
Do not store together with alkalis (caustic solutions).
Store away from reducing agents.
Store away from metals.
Do not store together with textiles.

· **Further information about storage conditions:**
Protect from heat and direct sunlight.
Do not seal receptacle gas tight.
Store in cool, dry conditions in well sealed receptacles.
Protect from frost.

· **Storage class** 5.1 B

· **7.3 Specific end use(s)** Laundry

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SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**
· **Ingredients with limit values that require monitoring at the workplace:**

· **DNELs**		
CAS: 7722-84-1 hydrogen peroxide		
Inhalative	DNEL	3 mg/m³ (worker (acute/short term - local))
		1.4 mg/m³ (worker (long term - systemic))

· **PNECs**	
CAS: 7722-84-1 hydrogen peroxide	
PNEC	4.66 mg/l (Abwasserreinigungsanlage (STP))
	0.0126 mg/l (Marine water)
	0.0138 mg/l (Intermittent releases)
	0.0126 mg/l (Freshwater)
PNEC	0.47 mg/kg dw (Sediment (marine water))
	0.47 mg/kg dw (Sediment (freshwater))
PNEC	0.0023 mg/kg ww (Soil)

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**
· **Appropriate engineering controls** No further data; see item 7.
· **Individual protection measures, such as personal protective equipment**
· **General protective and hygienic measures**
The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Do not inhale gases / vapours / aerosols.
Avoid contact with the eyes and skin.
Do not eat, drink, smoke or sniff while working.
· **Respiratory protection:**
Use suitable respiratory protective device in case of insufficient ventilation (exceeding the workplace limit values, formation of aerosols).
Special gas filter NO-P3
· **Hand protection**
Acid resistant gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
· **Material of gloves**
Butyl rubber, BR
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· **As protection from splashes gloves made of the following materials are suitable:**
Butyl rubber, BR
Recommended thickness of the material: ≥ 0.5 mm
· **Eye/face protection** Tightly sealed goggles.
· **Body protection:** Acid resistant protective clothing

*

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
· **Physical state**	Fluid
· **Colour:**	Colourless
· **Odour:**	Pungent
· **Odour threshold:**	No further relevant information available.
· **Melting point/freezing point:**	- 33 °C
· **Boiling point or initial boiling point and boiling range**	108 °C
· **Flammability**	No further relevant information available.
· **Lower and upper explosion limit**	
· **Lower:**	No further relevant information available.
· **Upper:**	No further relevant information available.
· **Flash point:**	not applicable
· **Ignition temperature:**	No further relevant information available.
· **Auto-ignition temperature:**	Product is not selfigniting.
· **Decomposition temperature:**	~ 113 °C
· **pH at 20 °C**	< 3.5
· **Viscosity:**	
· **Kinematic viscosity**	No further relevant information available.
· **dynamic at 20 °C:**	1.11 mPas
· **Solubility**	
· **Water:**	Fully miscible

· **Partition coefficient n-octanol/water (log value)**	
Viva Superox	-1,57

· **Vapour pressure at 30 °C:**	< 1 hPa (H_2O_2)
· **Density and/or relative density**	
· **Density at 20 °C:**	1.13 g/cm³
· **Relative density**	No further relevant information available.
· **Relative gas density**	No further relevant information available.
· **Particle characteristics**	No further relevant information available.
· **9.2 Other information**	No further relevant information available.
· **Information with regard to physical hazard classes**	
· **Explosives**	Void
· **Flammable gases**	Void
· **Aerosols**	Void

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· **Oxidising gases**	Void
· **Gases under pressure**	Void
· **Flammable liquids**	Void
· **Flammable solids**	Void
· **Self-reactive substances and mixtures**	Void
· **Pyrophoric liquids**	Void
· **Pyrophoric solids**	Void
· **Self-heating substances and mixtures**	Void
· **Substances and mixtures, which emit flammable gases in contact with water**	Void
· **Oxidising liquids**	Void
· **Oxidising solids**	Void
· **Organic peroxides**	Void
· **Corrosive to metals**	Void
· **Desensitised explosives**	Void

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.
· **10.2 Chemical stability**
Stable under normal ambient conditions.
Danger of decomposition in case of warmth and heat influence.
No decomposition if used and stored according to specifications.
· **10.3 Possibility of hazardous reactions**
Reacts with flammable substances
Reacts with various metals
Reacts with reducing agents
Reacts with alkali (lyes)
Acts as an oxidizing agent on organic materials such as wood, paper and fats
· **10.4 Conditions to avoid** Protect from heat and direct sunlight.
· **10.5 Incompatible materials:**
Reducing agents
Alkalis (lyes)
Certain metals
Combustible materials
· **10.6 Hazardous decomposition products:** Oxygen

SECTION 11: Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
· **Acute toxicity**
Harmful if swallowed or if inhaled.

· **LD/LC50 values relevant for classification:**		
Oral	LD50	1,232 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rabbit)

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CAS: 7722-84-1 hydrogen peroxide		
Oral	LD50	1,190 – 1,270 mg/kg (rat)
	LD50	1,232 mg/kg (rat) ($(H_2O_2$ 35%))
Dermal	LD50	> 2,000 mg/kg (rabbit)
Inhalative	LC50 (4h)	11 mg/l (ATE)
	LC50	> 0.17 mg/l (rat) (4 h; (Vapour (generated from 50% hydrogene peroxid)

· **Skin corrosion/irritation**
Causes skin irritation.
· **Serious eye damage/irritation**
Causes serious eye damage.
· **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.
· **STOT-single exposure**
May cause respiratory irritation.
· **STOT-repeated exposure** Based on available data, the classification criteria are not met.
· **Aspiration hazard** Based on available data, the classification criteria are not met.
· **11.2 Information on other hazards**

· **Endocrine disrupting properties**
None of the ingredients is listed.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**	
EC50	7.7 mg/l (Aquatic invertebrates) (24 h; Daphnia magna)
LC50	37.4 mg/l (Fish) (96 h; Ictalurus punctatus)
NOEC	0.1 mg/l (Aquatic plants, algae) (72 h; Chlorella vulgaris)
IC50	2.5 mg/l (Aquatic plants, algae) (72 h; Chlorella vulgaris)

CAS: 7722-84-1 hydrogen peroxide	
EC50	7.7 mg/l (Aquatic invertebrates) (24 h; Daphnia magna)
LC50	16.4 mg/l (Fish) (96 h; Pimephales promelas()
NOEC	0.1 mg/l (Aquatic plants, algae) (72 h; Chlorella vulgaris)
	0.63 mg/l (Aquatic invertebrates) (21 d; Daphnia magna)

· **12.2 Persistence and degradability** No further relevant information available.
· **12.3 Bioaccumulative potential** No further relevant information available.
· **12.4 Mobility in soil** No further relevant information available.
· **12.5 Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.

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· **12.7 Other adverse effects**
· **Additional ecological information:**
· **General notes:** Must not reach sewage water or drainage ditch undiluted or unneutralised.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation**
After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.
Disposal must be made according to official regulations.
· **Waste disposal key:**
The assignment of waste codes in accordance with European Waste Catalogue (EWC) is trade- and process-specific and has to be made in compliance with national and local regulations.
· **Uncleaned packaging:**
· **Recommendation:**
Packagings that may not be cleansed are to be disposed of in the same manner as the product.
Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN number or ID number**
· **ADR, IMDG, IATA** UN2014

· **14.2 UN proper shipping name**
· **ADR** 2014 HYDROGEN PEROXIDE, AQUEOUS SOLUTION
· **IMDG, IATA** HYDROGEN PEROXIDE, AQUEOUS SOLUTION

· **14.3 Transport hazard class(es)**

· **ADR**

· **Class** 5.1 (OC1) Oxidising substances.
· **Label** 5.1+8

· **IMDG**

· **Class** 5.1 Oxidising substances.

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· **Label**	5.1/8
· **IATA**	
	
· **Class**	5.1 Oxidising substances.
· **Label**	Forbidden
· **14.4 Packing group**	
· **ADR, IMDG, IATA**	II
· **14.5 Environmental hazards:**	Not applicable.
· **14.6 Special precautions for user**	Warning: Oxidising substances.
· **Hazard identification number (Kemler code):**	58
· **EMS Number:**	F-H,S-Q
· **Segregation groups**	Peroxides
· **Stowage Category**	D
· **Stowage Code**	SW1 Protected from sources of heat.
· **Segregation Code**	SG16 Stow "separated from" class 4.1 SG59 Stow "separated from" SGG14-permanganates SG72 See 7.2.6.3.2.
· **14.7 Maritime transport in bulk according to IMO instruments**	Not applicable.
· **Transport/Additional information:**	
· **ADR**	
· **Limited quantities (LQ)**	1L
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **Transport category**	2
· **Tunnel restriction code**	E
· **IMDG**	
· **Limited quantities (LQ)**	1L
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **UN "Model Regulation":**	UN 2014 HYDROGEN PEROXIDE, AQUEOUS SOLUTION, 5.1 (8), II

SECTION 15: Regulatory information

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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· **REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)**
None of the ingredients is listed.

· **LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)**
None of the ingredients is listed.

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **Regulation (EU) No 649/2012**
None of the ingredients is listed.

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

CAS: 7722-84-1	hydrogen peroxide	Limit value: > 12 – ≤ 35 %	25 – 50%

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**
None of the ingredients is listed.

· **National regulations**

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**
None of the ingredients is listed.

· **Other information:** Product is for professional use only.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Classification according to Regulation (EC) No 1272/2008**
Classification of mixtures based on ingredients of the mixture, applying calculation method of assessing health and environmental hazards

· **Date of previous version:** 26.02.2021

· **Version number of previous version:** 3.00

· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Ox. Liq. 1: Oxidizing liquids – Category 1

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Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
· *** Data compared to the previous version altered.**