

Printing date 06/29/2011

Reviewed on 06/29/2011

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

- **Product identifier**
- **Trade name: Viva Oxy**
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation** Laundry
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
SEITZ GmbH  
Gutenbergstrasse 3  
65830 Kriftel/ Germany  
seitz@seitz24.com  
www.seitz24.com
- **Information department:**  
CHEM-TEL Inc.  
1305 North Florida Ave  
Tampa Florida 33602
- **Emergency telephone number:** 1-800-255-3924

## 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
C; Corrosive  
R34: Causes burns.  
.....  
Xn; Harmful  
R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.  
.....  
O; Oxidizing  
R8: Contact with combustible material may cause fire.
- **Classification system:**  
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

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- **Label elements**
- **Labelling according to EU guidelines:**  
The product has been marked in accordance with national laws.  
Observe the general safety regulations when handling chemicals
- **Code letter and hazard designation of product:**  
C Corrosive  
O Oxidizing
- **Hazard-determining components of labelling:**  
hydrogen peroxide  
peracetic acid  
acetic acid
- **Risk phrases:**  
8 Contact with combustible material may cause fire.  
20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
34 Causes burns.
- **Safety phrases:**  
2 Keep out of the reach of children.  
3/7 Keep container tightly closed in a cool place  
14 Keep away from metal ions, metal salts, metals, alkalis, reducing agents, flammable substances  
20 When using do not eat or drink.

(Contd. on page 2)

Printing date 06/29/2011

Reviewed on 06/29/2011

## Trade name: Viva Oxy

(Contd. of page 1)

- 24/25 Avoid contact with skin and eyes.  
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.  
 35 This material and its container must be disposed of in a safe way.  
 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
 46 If swallowed, seek medical advice immediately and show this container or label.

- **Hazard description:**

- **WHMIS classification**

C - Oxidizing materials

D2B - Toxic material causing other toxic effects

E - Corrosive material



- **Classification system**

- **NFPA ratings (scale 0-4)**



Health = 3

Fire = 3

Reactivity = 0

The substance possesses oxidizing properties.

- **HMS ratings (scale 0-4)**



Health = 3

Fire = 3

Reactivity = 0

### 3 Composition/information on ingredients

- **Description:** Mixture of the substances listed below with non-hazardous ingredients.

- **CAS-No. Components:**

CAS-No.	Components:	
7722-84-1	hydrogen peroxide	20 - 30%
64-19-7	acetic acid	6 - 10%
79-21-0	peracetic acid	~ 5%

### 4 First aid measures

- **Description of first aid measures**

- **General information**

Immediately remove any clothing soiled by the product.

Remove casualties from exposure.

Keep unprotected persons away.

- **After inhalation** Supply fresh air and to be sure call for a doctor.

- **After skin contact**

Immediately rinse with water.

Seek medical treatment.

(Contd. on page 3)

Printing date 06/29/2011

Reviewed on 06/29/2011

**Trade name: Viva Oxy**

(Contd. of page 2)

- **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; immediately call for medical help.
- **Information for doctor**  
In case of ingestion and subsequent vomiting aspiration by the lungs might result and lead to chemical pneumonia or suffocation.

## 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Oxygen (O<sub>2</sub>)  
Product is fire encouraging.
- **Advice for firefighters**
- **Protective equipment:**  
Do not inhale explosion gases or combustion gases.  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information**  
Cool endangered receptacles with water spray.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Avoid contact with eyes and skin.  
Do not breathe gases / vapors.  
Keep away from ignition sources
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of the collected material according to regulations.
- **Reference to other sections**  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Handling**
- **Precautions for safe handling**  
Keep away from heat and direct sunlight.  
Avoid contact with eyes and skin.  
Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**  
Protect from heat.  
Keep ignition sources away - Do not smoke.

(Contd. on page 4)

Printing date 06/29/2011

Reviewed on 06/29/2011

Trade name: **Viva Oxy**

(Contd. of page 3)

- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**  
Use only receptacles specifically permitted for this substance/product.  
Suitable material: stainless steel, plastics, glass, ceramic  
Provide acid-resistant floor.  
Provide ventilation for receptacles.
- **Information about storage in one common storage facility:**  
Store away from flammable substances, reducing agents, alkalis and metal salts.
- **Further information about storage conditions:**  
Protect from heat and direct sunlight.  
Do not gas tight seal receptacle.  
Store in a cool place.  
Time of storage: max. 24 month

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

### · Components with limit values that require monitoring at the workplace:

#### 7722-84-1 hydrogen peroxide

PEL (USA)	1.4 mg/m <sup>3</sup> , 1 ppm
REL (USA)	1.4 mg/m <sup>3</sup> , 1 ppm
TLV (USA)	1.4 mg/m <sup>3</sup> , 1 ppm
EL (Canada)	1 ppm
EV (Canada)	1.4 mg/m <sup>3</sup> , 1 ppm

#### 64-19-7 acetic acid

PEL (USA)	25 mg/m <sup>3</sup> , 10 ppm
REL (USA)	Short-term value: 37 mg/m <sup>3</sup> , 15 ppm Long-term value: 25 mg/m <sup>3</sup> , 10 ppm
TLV (USA)	Short-term value: 37 mg/m <sup>3</sup> , 15 ppm Long-term value: 25 mg/m <sup>3</sup> , 10 ppm
EL (Canada)	Short-term value: 15 ppm Long-term value: 10 ppm
EV (Canada)	Short-term value: 37 mg/m <sup>3</sup> , 15 ppm Long-term value: 25 mg/m <sup>3</sup> , 10 ppm

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**  
The usual precautionary measures for handling chemicals should be followed.  
Keep away from foodstuffs, beverages and feed.  
Do not eat, drink, smoke or sniff while working.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.  
Do not inhale gases / vapors / aerosols.
- **Breathing equipment:**  
Not necessary if room is well-ventilated.  
Use suitable respiratory protective device in case of insufficient ventilation.  
Filter combination A2B2E2K1P2

(Contd. on page 5)

-USA-

Printing date 06/29/2011

Reviewed on 06/29/2011

**Trade name: Viva Oxy**

(Contd. of page 4)

- **Protection of hands:**  
Acid resistant gloves  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- **Material of gloves**  
Nitrile rubber, NBR  
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.
- **Eye protection:** Gauze goggles
- **Body protection:** Acid resistant protective clothing

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:	Fluid
Color:	Colorless
· <b>Odor:</b>	Pungent

- **pH-value at 20°C (68°F):** ~ 0.6

- **Change in condition**

- **Boiling point/Boiling range:** not applicable

- **Flash point:** Not applicable

- **Ignition temperature:** 395°C (743°F) (DIN 51 794)

- **Decomposition temperature:** > 60°C (> 140°F)

- **Auto igniting:** Product is not selfigniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Vapor pressure at 20°C (68°F):** 27 hPa (20 mm Hg)

- **Density at 20°C (68°F):** 1.12 g/cm<sup>3</sup>

- **Solubility in / Miscibility with**

- **Water:** Fully miscible

- **Segregation coefficient (n-octanol/water):** -1.25 log POW

## 10 Stability and reactivity

- **Reactivity**

- **Chemical stability**

- **Thermal decomposition / conditions to be avoided:**

- Danger of decomposition in case of warmth and heat influence.

- **Possibility of hazardous reactions**

- Reaction (decomposition) with metal ions, -salts and metals

- Danger of fire

(Contd. on page 6)

USA

Printing date 06/29/2011

Reviewed on 06/29/2011

**Trade name: Viva Oxy**

(Contd. of page 5)

- **Incompatible materials:**  
Metal ions, metal salts, metals  
alkalis, reducing agents  
flammable substances
- **Hazardous decomposition products:** Steam and oxygen
- **Additional information:** Product is stabilized.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

### 79-21-0 peracetic acid

Oral	LD50	1859 mg/kg (rat)
Dermal	LD50	1147 mg/kg (rat)
Inhalative	LC50/4 h	0.49 mg/l (rat)

### 7722-84-1 hydrogen peroxide

Oral	LD50	(35%) 1193 mg/kg (rat)
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### 64-19-7 acetic acid

Oral	LD50	3310 mg/kg (rat)
Dermal	LD50	1060 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect with danger of severe eye injury.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Corrosive

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability**
- **Other information:** The product is easily biodegradable.
- **Additional ecological information:**
- **According to the formulation contains the following heavy metals and compounds from the EU guideline NO. 76/464 EC:**  
According to the latest stage of our technical knowledge the product does not contain any heavy metals nor compounds acc. to EG-standard 76/464 EWG.
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

USA

(Contd. on page 7)

Printing date 06/29/2011

Reviewed on 06/29/2011

Trade name: **Viva Oxy**

(Contd. of page 6)

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Contaminated adsorbent, soil, water must be disposed of in a permitted hazardous waste management facility. Recovered products may be reused, reprocessed or incinerated or must be treated in a permitted hazardous waste management facility. It is your duty to dispose of the chemical materials and/or their containers in accordance with the Clean Air Act, The Clean Water Act, RCRA, as well as applicable Federal, State, and local Regulations regarding disposal.

## 14 Transport information

- **DOT regulations:**



- **Hazard class:** 5.1
- **Identification number:** UN3149
- **Packing group:** II
- **Proper shipping name (technical name):** HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED
- **Label:** 5.1+8

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 5.1 (OC1) Oxidizing substances
- **Danger code (Kemler):** 58
- **UN-Number:** 3149
- **Packaging group:** II
- **UN proper shipping name:** 3149 HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

- **Maritime transport IMDG:**



- **IMDG Class:** 5.1
- **UN Number:** 3149
- **Label:** 5.1+8
- **Packaging group:** II
- **EMS Number:** F-H,S-Q
- **Proper shipping name:** HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

(Contd. on page 8)

USA

Printing date 06/29/2011

Reviewed on 06/29/2011

Trade name: **Viva Oxy**

(Contd. of page 7)

· **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 5.1
- **UN/ID Number:** 3149
- **Label:** 5.1+8
- **Packaging group:** II
- **Proper shipping name:** HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

- **Special precautions for user** Warning: Oxidizing substances

## 15 Regulatory information

· **Canadian substance lists**

· **Canadian domestic substances list (DSL):**

All ingredients are listed.

· **Canadian ingredient disclosure list (limit 0.1%):**

None of the ingredients is listed.

· **Canadian ingredient disclosure list (limit 1%):**

7722-84-1	hydrogen peroxide
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64-19-7	acetic acid
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79-21-0	peracetic acid
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· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Sara**

· **Section 355 (extremely hazardous substances):**

7722-84-1	hydrogen peroxide
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79-21-0	peracetic acid
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· **Section 313 (specific toxic chemical listings):**

79-21-0	peracetic acid
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· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

(Contd. on page 9)

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 06/29/2011

Reviewed on 06/29/2011

Trade name: **Viva Oxy**

(Contd. of page 8)

· <b>IARC (International Agency for Research on Cancer)</b>		
7722-84-1	hydrogen peroxide	3

· <b>NTP (National Toxicology Program)</b>		
None of the ingredients is listed.		

· <b>TLV (Threshold Limit Value established by ACGIH)</b>		
7722-84-1	hydrogen peroxide	A3

· <b>MAK (German Maximum Workplace Concentration)</b>		
7722-84-1	hydrogen peroxide	4
79-21-0	peracetic acid	3B

· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>		
None of the ingredients is listed.		

· <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>		
None of the ingredients is listed.		

- **National regulations**

- **Other regulations, limitations and prohibitive regulations**

The product has been designed for professional use only.

- **Please note:**

The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another. It is the buyers responsibility to ensure that their activities comply with Federal, State or provincial and local laws. The following specific information is made for the purpose of complying with numerous laws and regulations.

## 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.

- \* **Data compared to the previous version altered.**

USA