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**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name/designation:

PCR Clean™ Wipes

Article No.:

15-2001, 15-2002

Additional information:

Voluntary product information following the Safety Data Sheet format

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

Use of the substance/mixture:

The product is intended for research, analysis and scientific education.

Relevant identified uses:

Life cycle stage [LCS]

PW: Widespread use by professional workers

Sector of uses [SU]

SU 24: Scientific research and development

Product Categories [PC]

PC 35: Washing and cleaning products

**1.3. Details of the supplier of the safety data sheet**

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Minerva Biolabs GmbH

Schkopauer Ring 13

12681 Berlin

Germany

Telephone: +49 30 2000437 0

E-mail: ehs@minerva-biolabs.com

Website: www.minerva-biolabs.com

**1.4. Emergency telephone number**

Vergiftungs-Informations-Zentrale Freiburg, 24h: +49 761 19240

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [CLP]

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

**2.2. Label elements**

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

According to EC directives or the corresponding national regulations the product does not have to be labelled.

Hazard statements: none

Supplemental hazard information: none

Precautionary statements: none

**2.3. Other hazards**



No data available

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## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 7664-38-2 EC No.: 231-633-2 Index No.: 015-011-00-6 REACH No.: 01-2119485924-24-XXXX	<b>orthophosphoric acid</b> Skin Corr. 1B (H314)  Danger <b>Specific concentration limit (SCL)</b> Skin Corr. 1B; H314: C ≥ 25% Skin Irrit. 2; H315: 10% ≤ C < 25% Eye Dam. 1; H318: C ≥ 25% Eye Irrit. 2; H319: 10% ≤ C < 25% <b>Acute Toxicity Estimate</b> ATE (oral) 1,530 mg/kg ATE (dermal) 2,740 mg/kg	0 – < 1 weight-%
CAS No.: 68439-50-9	<b>Fatty alcohol c12-c14, ethoxylated</b> Aquatic Acute 1 (H400), Aquatic Chronic 3 (H412)  Warning M-factor (acute): 1 <b>Acute Toxicity Estimate</b> ATE (oral) > 2,000 mg/kg	0 – < 0.2 weight-%

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing immediately. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

#### Following inhalation:

Provide fresh air.

#### In case of skin contact:

Rinse skin with water.

#### After eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water.

#### Following ingestion:

Rinse mouth. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

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

No known symptoms to date.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

Water spray jet, Extinguishing powder, Carbon dioxide (CO<sub>2</sub>). Co-ordinate fire-fighting measures to the fire surroundings.

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

The product itself does not burn.

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

### 5.4. Additional information

The product itself does not burn. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

**Personal precautions:**

Remove persons to safety. Avoid breathing dust/fume/gas/mist/vapours/spray.

**Protective equipment:**

Wear protective gloves/protective clothing and eye protection/face protection.

#### 6.1.2. For emergency responders

**Personal protection equipment:**

Personal protection equipment: see section 8

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up

**For containment:**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

**For cleaning up:**

Water (with cleaning agent)

### 6.4. Reference to other sections

Safe handling: see section 7, Personal protection equipment: see section 8, Disposal: see section 13

### 6.5. Additional information

Use appropriate container to avoid environmental contamination.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Protective measures****Advices on safe handling:**

Wear personal protection equipment (refer to section 8). Avoid contact with skin, eyes and clothes.

**Fire prevent measures:**

No special measures are necessary. Usual measures for fire prevention.

**Advices on general occupational hygiene**

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

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

**Technical measures and storage conditions:**

Keep container tightly closed in a cool, well-ventilated place.

**Requirements for storage rooms and vessels:**

Keep only in the original container in a cool, well-ventilated place. Avoid high temperatures or direct sunlight.

**Storage class (TRGS 510, Germany):** 12 – non-combustible liquids that cannot be assigned to any of the above storage classes

### 7.3. Specific end use(s)

No data available

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2	① 2 mg/m <sup>3</sup> ② 4 mg/m <sup>3</sup> ⑤ (einatembare Fraktion) DFG, EU, AGS, Y
IOELV (EU)	orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2	① 1 mg/m <sup>3</sup> ② 2 mg/m <sup>3</sup>

#### 8.1.2. Biological limit values

No data available

#### 8.1.3. DNEL-/PNEC-values

No data available

### \* 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

See section 7 of the safety data sheet.

#### 8.2.2. Personal protection equipment



##### Eye/face protection:

Eye glasses with side protection (EN 166).

##### Skin protection:

Tested protective gloves must be worn (EN ISO 374). In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration. Suitable material: NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber), Thickness of the glove material: > 0,35 mm.

##### Respiratory protection:

Usually no personal respirative protection necessary.

#### 8.2.3. Environmental exposure controls

No data available

### 8.3. Additional information

See section 7. No additional measures necessary.

## SECTION 9: Physical and chemical properties

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

#### Appearance

**Physical state:** Liquid**Form:** soaked wipes**Colour:** colourless**Odour:** not determined**flammability:** No

#### Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	2.1	20 °C	
Melting point	No data available		
Freezing point	No data available		
Initial boiling point and boiling range	≥ 100 °C		
Flash point	not applicable		
Evaporation rate	No data available		

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Parameter	Value	at °C	① Method ② Remark
Auto-ignition temperature	<i>not applicable</i>		
Upper/lower flammability or explosive limits	<i>No data available</i>		
Vapour pressure	<i>No data available</i>		
Vapour density	<i>No data available</i>		
Density	<i>No data available</i>		
Bulk density	<i>not applicable</i>		
Water solubility	completely miscible		
Dynamic viscosity	<i>No data available</i>		
Kinematic viscosity	<i>No data available</i>		

**9.2. Other information**

No data available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

The product is stable under storage at normal ambient temperatures.

**10.2. Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

**10.4. Conditions to avoid**

Further information on proper storage: see section 7.

**10.5. Incompatible materials**

No further relevant information available.

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

<b>orthophosphoric acid</b> CAS No.: 7664-38-2 EC No.: 231-633-2
LD <sub>50</sub> oral: 1,530mg/kg (Rat)
LD <sub>50</sub> dermal: 2,740mg/kg (Rabbit)
<b>Fatty alcohol c12-c14, ethoxylated</b> CAS No.: 68439-50-9
LD <sub>50</sub> oral: >2,000mg/kg (Rat)

**Acute oral toxicity:**

Based on available data, the classification criteria are not met.

**Acute dermal toxicity:**

Based on available data, the classification criteria are not met.

**Acute inhalation toxicity:**

Based on available data, the classification criteria are not met.

**Skin corrosion/irritation:**

Based on available data, the classification criteria are not met.

**Serious eye damage/irritation:**

Based on available data, the classification criteria are not met.

**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.

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**STOT-single exposure:**

Based on available data, the classification criteria are not met.

**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.

**Additional information:**

No data available

**11.2. Information on other hazards**

No data available

**SECTION 12: Ecological information****12.1. Toxicity**

<b>orthophosphoric acid</b> CAS No.: 7664-38-2 EC No.: 231-633-2
<b>EC<sub>50</sub></b> : >100mg/L 3d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus))
<b>EC<sub>50</sub></b> : >100mg/L 2d (crustaceans, Daphnia magna)
<b>NOEC</b> : 100mg/L 3d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus))
<b>NOEC</b> : 56mg/L 2d (crustaceans, Daphnia magna)
<b>Fatty alcohol c12-c14, ethoxylated</b> CAS No.: 68439-50-9
<b>LC<sub>50</sub></b> : 0.423mg/L 4d (fish, Pimephales promelas) OECD Guideline 203 (Fish, Acute Toxicity Test)
<b>EC<sub>50</sub></b> : 0.044mg/L 3d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Alga, Growth Inhibition Test)
<b>EC<sub>50</sub></b> : 0.125mg/L 2d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
<b>NOEC</b> : <1mg/L (Algae/water plant)
<b>NOEC</b> : 0.037mg/L 3d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Alga, Growth Inhibition Test)
<b>NOEC</b> : 0.304mg/L 4d (fish, Pimephales promelas) OECD Guideline 203 (Fish, Acute Toxicity Test)
<b>NOEC</b> : 0.045mg/L 2d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

**12.2. Persistence and degradability**

No data available

**12.3. Bioaccumulative potential**

<b>Fatty alcohol c12-c14, ethoxylated</b> CAS No.: 68439-50-9
<b>Log K<sub>OW</sub></b> : 7

**12.4. Mobility in soil**

No data available

**12.5. Results of PBT and vPvB assessment**

<b>orthophosphoric acid</b> CAS No.: 7664-38-2 EC No.: 231-633-2
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>Fatty alcohol c12-c14, ethoxylated</b> CAS No.: 68439-50-9
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

**12.6. Endocrine disrupting properties**

No data available

**12.7. Other adverse effects**

No data available

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Dispose of waste according to applicable legislation.

**13.1.1. Product/Packaging disposal****Waste codes/waste designations according to EWC/AVV****Waste code product**

07 01 99	wastes not otherwise specified
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**Remark:**

Non hazardous waste according to Directive 2008/98/EC (waste framework directive).

**Waste treatment options****Appropriate disposal / Product:**

Consult the appropriate local waste disposal expert about waste disposal.

**Appropriate disposal / Package:**

Completely emptied packages can be recycled.

**SECTION 14: Transport information**

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN number or ID number</b>			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
<b>14.2. UN proper shipping name</b>			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
<b>14.3. Transport hazard class(es)</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.4. Packing group</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.5. Environmental hazards</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.6. Special precautions for user</b>			
not relevant	not relevant	not relevant	not relevant

**14.7. Maritime transport in bulk according to IMO instruments**

No data available

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. EU legislation****Other regulations (EU):**

1907/2006 REACH, 1272/2008 CLP GHS, 98/24/EC

**15.1.2. National regulations****[DE] National regulations****Restrictions of occupation**

22 JArbSchG., 4 MuSchRiv., 5 MuSchRiv., Betriebssicherheitsverordnung (BetrSichV)

**Annex Chemikalien-Verbotsverordnung (ChemVerbotsV)**

Hazardous Substances Ordinance (GefStoffV)

**Water hazard class****WGK:**

nwg - non-hazardous to water

**Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)**

Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)

**15.2. Chemical Safety Assessment**

For this substance a chemical safety assessment is not required.

**SECTION 16: Other information****16.1. Indication of changes**

8.2.	Exposure controls
9.1.	Information on basic physical and chemical properties
16.2.	Abbreviations and acronyms

**\* 16.2. Abbreviations and acronyms**

ACGIH American Conference of Governmental Industrial Hygienists

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

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ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC <sub>50</sub>	Effective Concentration 50%
ECHA	European Chemicals Agency
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
LC <sub>50</sub>	Lethal (fatal) Concentration 50%
LD <sub>50</sub>	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PC	Product category
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
SCL	Specific concentration limit
SU	use category
TRGS	Technische Regeln für Gefahrstoffe
TSCA	Toxic Substance Control Act
UN	United Nations

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

### 16.3. Key literature references and sources for data

TRGS 510, TRGS 525, TRGS 900, Safety data sheets for the ingredients , 1907/2006 REACH, 1272/2008 CLP GHS

Substance name	Type	source of supply
orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2	EC <sub>50</sub> ; NOEC	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
Fatty alcohol c12-c14, ethoxylated CAS No.: 68439-50-9	LC <sub>50</sub> ; EC <sub>50</sub> ; NOEC	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>

### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

### 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

### 16.6. Training advice

No data available

### 16.7. Additional information

This data sheet was created in accordance with EU regulation (EC) No. 1907/2006 (REACH).

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\* Data changed compared with the previous version.