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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 REACH No.: 01-2119485924-24-XXXX	orthophosphoric acid Skin Corr. 1B (H314)  Danger Specific concentration limit (SCL) 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%	0 – < 1 weight-%
CAS No.: 68439-50-9	Fatty alcohol c12-c14, ethoxylated Aquatic Acute 1 (H400), Aquatic Chronic 3 (H412)  Warning M-factor (acute): 1	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 (CO₂). 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.

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.

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Protective equipment:

Wear protective gloves/protective clothing and eye/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

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 ³ ② 4 mg/m ³ ⑤ (einatembare Fraktion)
IOELV (EU)	orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2	① 1 mg/m ³ ② 2 mg/m ³

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

No data available

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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), 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: soaked wipes

Colour: colourless

Odour: not determined

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	2.1	20 °C	
Melting point	<i>not determined</i>		
Freezing point	<i>not determined</i>		
Initial boiling point and boiling range	≥ 100 °C		
Decomposition temperature	<i>not determined</i>		
Flash point	<i>not applicable</i>		
Evaporation rate	<i>not determined</i>		
Auto-ignition temperature	<i>not determined</i>		
Upper/lower flammability or explosive limits	<i>not determined</i>		
Vapour pressure	<i>not determined</i>		
Vapour density	<i>not determined</i>		
Density	<i>not determined</i>		
Relative density	<i>not determined</i>		
Bulk density	<i>not determined</i>		
Water solubility	completely miscible		
Partition coefficient: n-octanol/water	<i>not determined</i>		
Dynamic viscosity	<i>not determined</i>		
Kinematic viscosity	<i>not determined</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.

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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**

Substance name	Toxicological information
orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2	LD₅₀ oral: 1,530mg/kg (Rat) LD₅₀ dermal: 2,740mg/kg (Rabbit)
Fatty alcohol c12-c14, ethoxylated CAS No.: 68439-50-9	LD₅₀ oral: >2,000mg/kg (Rat) LD₅₀ dermal: >3,000mg/kg (rabbit) OECD Guideline 402 (Acute Dermal Toxicity) LC₅₀ Acute inhalation toxicity (dust/mist): >1.6mg/l 4h (rat) OECD Guideline 403 (Acute Inhalation Toxicity)

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.

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

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SECTION 12: Ecological information

12.1. Toxicity

Substance name	Toxicological information
orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2	EC ₅₀ : >100mg/l 3d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)) EC ₅₀ : >100mg/l 2d (crustaceans, Daphnia magna) NOEC: 100mg/l 3d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)) NOEC: 56mg/l 2d (crustaceans, Daphnia magna)
Fatty alcohol c12-c14, ethoxylated CAS No.: 68439-50-9	NOEC: <1mg/l (Algae/water plant) LC ₅₀ : 1.2mg/l 4d (fish, Danio rerio (previous name: Brachydanio rerio)) EU Method C.1 (Acute Toxicity for Fish) EC ₅₀ : 0.53mg/l 2d (crustaceans, Daphnia magna) EG-Guideline 92/69/EWG NOEC: 0.66mg/l 4d (fish, Danio rerio (previous name: Brachydanio rerio)) EU Method C.1 (Acute Toxicity for Fish)

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

Substance name	Log K _{ow}	Bioconcentration factor (BCF)
Fatty alcohol c12-c14, ethoxylated CAS No.: 68439-50-9	7	

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

Substance name	Results of PBT and vPvB assessment
orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2	—
Fatty alcohol c12-c14, ethoxylated CAS No.: 68439-50-9	—

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

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.

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SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
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.
14.2. UN proper shipping name			
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.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
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 - nicht wassergefährdend

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**

No data available

16.2. Abbreviations and acronyms

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
Fatty alcohol c12-c14, ethoxylated CAS No.: 68439-50-9	Classification of the substance or mixture; LD ₅₀ dermal; LC ₅₀ Acute inhalation toxicity (dust/mist); LC ₅₀ ; EC ₅₀ ; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/
orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2	EC ₅₀ ; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/

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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. Relevant R-, H- and EUH-phrases (Number and full text)

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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