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

1.1 Product identifier

- **Trade Name:** PCR Clean™ Wipes
- **Article No.:** 15-2001, 15-2002
- **Preparation No.:** n.av.
- **Registration No.:** n.ap.

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

Identified uses: Wipes for cleaning and decontaminating surfaces in a molecular biology laboratory.

1.3 Details of the supplier of the safety data sheet

1.3.1 Address of the Company / Supplier:

- Minerva Biolabs GmbH, Schkopauer Ring 13, 12681 Berlin, Germany
- Telephone: +49 30 - 2000 437-0, Telefax: +49 30-2000 437-9, E-Mail: rc@minerva-biolabs.com

1.3.2 Responsible for the data sheet:

- CoSiChem AG, Ernst-Lemmer-Straße 23, 35041 Marburg, info@cosichem.de

1.4 Emergency telephone number

- Emergency - Telephone of Company / Undertaking: Giftnotruf München Toxikol. Abteilung, Klinikum rechts der Isar
- Telefax: +49 89 19240-2467 (24h)
- Telephone: +44 121 507 4123

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

None.

2.2 Label elements

- Classification according to 1272/2008/EC: No.
- Applicable Exemptions:
- Signal word(s): n.ap.
- Hazard pictogram(s):

H - Phrases:

Although this product does not require a hazard warning label, we recommend that the safety advice should be observed.

Additional Markings:

2.3 Other hazards

This mixture contains no substances which are assessed to be PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

n.ap.

3.2 Mixtures

Chemical Characterisation:

Mixture: aqueous surfactant solution, acidic absorbed by inert carrier material

<table>
<thead>
<tr>
<th>Material</th>
<th>CAS - No.</th>
<th>Index - No.</th>
<th>EC - No.</th>
<th>REACH - No.</th>
<th>m% - range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohols, C12-14, ethoxylated</td>
<td>68439-50-9</td>
<td>n.av.</td>
<td>n.av.</td>
<td>n.av.</td>
<td>0,1 – 0,5%</td>
</tr>
</tbody>
</table>

Acute Tox. 4; H302 / Eye Dam. 1; H318 / Aquatic Acute 1; H400

Text of H - phrases: see section 16

m% - range: x – y & x z – < y
SECTION 4: First aid measures

4.1 Description of first aid measures

4.1.1 Inhalation:
Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.
Consult a physician if necessary.

4.1.2 Skin Contact:
Wash off immediately with plenty of water. If symptoms persist, call a physician.

4.1.3 Eye Contact:
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If eye irritation persists, consult a specialist.

4.1.4 Ingestion:
Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting.
Consult a physician if necessary.

4.2 Most important symptoms and effects, both acute and delayed
None known.

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

5.1.1 Suitable Extinguishing Media:
Use dry chemical, CO₂, water spray or "alcohol" foam.

5.1.2 Extinguishing Media to Avoid:
High volume water jet.

5.2 Special hazards arising from the substance or mixture
* In the event of fire the following can be released: oxides of phosphorus, carbon oxides.

5.3 Advice for firefighters

5.3.1 Special Protective Equipment:
Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.

5.3.2 Additional Information:
The product itself does not burn.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
See chapter 8.2.2
Ensure adequate ventilation.

6.2 Environmental precautions
Do not contaminate water.
Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up
* Use mechanical handling equipment. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
None.
SECTION 7: Handling and storage

7.1 Precautions for safe handling
7.1.1 Precautions for Safe Handling:
When using, do not eat, drink or smoke.
Remove and wash contaminated clothing before re-use.
Wash hands before breaks and at the end of workday.
Avoid contact with skin and eyes.

7.1.2 Precautions in Case of Fire and Explosion:
Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities
7.2.1 Storage Instructions:
Keep container tightly closed in a dry and well-ventilated place.

7.2.2 Store away from:
Do not store together with strong bases.

7.2.3 Further Information on Storage Conditions:
None.

7.3 Specific end use(s)
n.av.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

<table>
<thead>
<tr>
<th>Material</th>
<th>Limit Value</th>
</tr>
</thead>
</table>

8.2 Exposure controls
8.2.1 Appropriate engineering controls
Provide appropriate exhaust ventilation at machinery.

8.2.2 Individual protection measures
8.2.2a* Respiratory Protection: Not required under normal use.
8.2.2b* Hand Protection: Repeated or prolonged exposure: Protective gloves complying with EN 374.
Nitrile rubber (0,19 mm), butyl-rubber (0,35 mm) break through time > 8 h
The data about break through time/length of material are standard values!
The exact break through time/length of material has to be obtained from the producer of the protective glove.
Please observe the instructions regarding permeability and breakthrough time
which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

8.2.2c* Eye Protection: Not required under normal use.
8.2.2d* Skin Protection: Long sleeved clothing
8.2.2e Further Information: Observe wearing time limits:

8.2.3 Environmental exposure controls:
n.av.
<table>
<thead>
<tr>
<th>9.1</th>
<th>Information on basic physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.1.1</td>
<td><strong>Form</strong>: liquid absorbed by inert carrier material</td>
</tr>
<tr>
<td></td>
<td><strong>Colour</strong>: colourless</td>
</tr>
<tr>
<td></td>
<td><strong>Odour</strong>: odourless</td>
</tr>
<tr>
<td></td>
<td><strong>Odour threshold</strong>: n.av.</td>
</tr>
</tbody>
</table>

| 9.1.2* | pH-value, undiluted: of liquid: 2,1 |
|        | pH-value, 1% aqueous solution: n.av. |
| 9.1.3  | Boiling point / Boiling - range (°C): n.av., Melting point / Melting range (°C): n.av. |
| 9.1.4  | Flash point (°C): n.av., closed cup |
| 9.1.5  | Flammability (EEC A10/A13): n.ap. |
| 9.1.6  | Ignition temperature (°C): n.ap. |
| 9.1.7  | Autoflammability (EEC A16): None. |
| 9.1.8  | Oxidising properties: No. |
| 9.1.9  | Explosion hazard: None. |
| 9.1.10 | Explosion limits (Vol.%): lower: n.av., upper: n.av. |
| 9.1.11 | Vapour pressure: n.av. |
|        | Vapour density (Air = 1): n.av. |
| 9.1.12 | Density (g/ml): of liquid: 0,999 |
| 9.1.13 | Solubility (in Water): of liquid: miscible |
| 9.1.14 | Partition coefficient, n-Octanol / Water: n.av. |
| 9.1.15 | Viscosity: n.av. |
| 9.1.16 | Solvent content (m %): n.ap. |
| 9.1.17 | Thermal decomposition (°C): n.av. |
| 9.1.18 | Evaporation rate: n.av. |
| 9.2   | **Other information** |
|      | n.av. |

**SECTION 10: Stability and reactivity**

| 10.1 | **Reactivity** |
|      | No information available. |
| 10.2 | **Chemical stability** |
|      | Stable under recommended storage conditions. |
| 10.3 | **Possibility of hazardous reactions** |
|      | No dangerous reaction known under conditions of normal use. |
| 10.4 | **Conditions to avoid** |
|      | Handle in accordance with good industrial hygiene and safety practice. |
| 10.5 | **Incompatible materials** |
|      | Incompatible with bases. |
| 10.6 | **Hazardous decomposition products** |
|      | No decomposition if stored and applied as directed. |
|      | To avoid thermal decomposition, do not overheat. |
# SECTION 11: Toxicological information

11.1 **Information on toxicological effects**

- **Acute Health Effects:**
  - **Inhalation:** n.av.
  - **Ingestion:** n.av.
  - **Skin Contact:** n.av.
  - **Skin corrosion / irritation:** May cause skin irritation in susceptible persons.
  - **Serious eye damage / irritation:** May cause eye irritation with susceptible persons.
  - **Respiratory or skin sensitisation:** n.av.
  - **Germ cell mutagenicity:** n.av.
  - **Carcinogenicity:** n.av.
  - **Reproductive toxicity:** n.av.
  - **STOT-single exposure:** n.av.
  - **STOT-repeated exposure:** n.av.
  - **Aspiration hazard:** n.av.

11.1.1 – **Practical Experience**

- **Observations relevant for classification:** None.
- **Further Observations:** None.
- Classification of the preparation has been done by calculation in accordance with EEC directives.

# SECTION 12: Ecological information

12.1 **Toxicity**

We have no quantitative data concerning the ecological effects of this product.

12.2 **Persistence and degradability**

- * May be separated mechanically in waste water plants.

12.3 **Bioaccumulative potential**

12.4 **Mobility in soil**

- n.av.

12.5 **Results of PBT and vPvB assessment**

This mixture contains no substances which are assessed to be PBT or vPvB.

12.6 **Other adverse effects**

- **COD-Value, mg/g:** n.av.
- **BOD5-Value, mg/g:** n.av.
- **AOX-Remarks:** Not applicable.
- **Significant Components:** None.
- **Other adverse effects:** Not applicable.

# SECTION 13: Disposal considerations

13.1 **Waste treatment methods**

- **Recommendation:** D10

  Waste - Code - No.: 20 01 29
  The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

  In addition comply with the regional authorities.

13.2 **Contaminated Packaging**

- **Recommendation:** Wash with suitable cleaner. Otherwise as described under Residues.
- **Safe Handling:** Handle in accordance with good industrial hygiene and safety practice.
- As described under Residues.
Safety Data Sheet in Accordance with regulation 2015/830

Trade Name: PCR Clean™ Wipes
Company / Supplier: Minerva Biolabs GmbH, Schkopauer Ring 13, 12681 Berlin, Germany
Telephone: +49 30 - 2000 437-0, Date of issue: 08.01.2020 Replaces Data Sheet of: 19.02.2016

SECTION 14: Transport information

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Not a dangerous substance as defined in the above regulations.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

14.1 UN number

14.2 UN proper shipping name

14.3 Transport hazard class(es)

14.4 Packing group

14.5 Environmental hazards

14.6 Special precautions for user

<table>
<thead>
<tr>
<th>Transport category: Classification Code: Hazard - No.: LQ:</th>
<th>Packing Instructions (Passenger)</th>
<th>Packing Instructions (Cargo)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: Regulatory information

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

15.2 Chemical safety assessment :
n.ap.

SECTION 16: Other information

Text of H phrases mentioned in Section 3
H302: Harmful if swallowed.
H318: Causes serious eye damage.
H400: Very toxic to aquatic life.

This datasheet has been compiled in accordance with EU regulation 2015/830. The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

Prepared by: CoSiChem AG, Ernst-Lemmer-Straße 23, 35041 Marburg, info@cosichem.de, +49 6421 97905 0
Receipt of Data: 02.02.2016, mib_0005_a