1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier
- **Product name:** Collagen Type I
- **Product number:** 50201, 50202, 50203, 50204, 50205, 50206
- **REACH No.:** A registration number is not available for this substance/mixture as the substance/mixture or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

1.2 Relevant identified uses of the substance or mixture and uses advised against
- **Identified uses:** For research use only

1.3 Details of the supplier of the material safety data sheet
- **Company:** ibidi GmbH
  - Am Klopferspitz 19
  - 82152 Martinsried
  - Germany
- **Telephone:** +49-89-5204617-0
- **Fax:** +49-89-5204617-59
- **E-mail address:** msds@ibidi.de

1.4 Emergency telephone number
- **Emergency Phone:** +49-89-5204617-0
  - (Business hours from Monday till Friday between 8 am and 5 pm (UTC+1h))

2 HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture
- Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label elements
- Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.3 Other hazards
- none

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures
- **Description:** Collagen Type I, rat tail
  - No components need to be disclosed according to the applicable regulations.
  - Additional information: Contains 0.1% acetic acid
4 FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If necessary seek medical advice.

In case of skin contact
In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. In case of skin reactions, consult a physician.

In case of eye contact
Remove contact lenses. Immediately flush eyes with plenty of flowing water for at least 20 minutes, also under the eyelids. If necessary seek medical advice.

If swallowed
Do NOT induce vomiting unless directed to do so by medical personal. Never give anything by mouth to an unconscious person. Rinse mouth with water. If malaise develops, call a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed
no data available

5 FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture
no data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3 Methods and material for containment and cleaning up
Dilute spilled liquid with plenty of water. Wipe up with absorbent material.

6.4 Reference to other sections
For disposal see section 13.
7 HANDLING AND STORAGE

7.1 Precautions for safe handling
For precautions see section 2.2.

7.2 Conditions for safe storage, including incompatibilities
Keep in properly labeled containers. Keep container tightly closed.
Store at < -15 °C.

7.3 Specific end use(s)
Refer to the instruction for proper and intended use.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering control
Handle in accordance with good laboratory hygiene and safety practice.

Personal protective equipment

Eye protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. The glove material has to be impermeable and resistant to the product. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with the product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practice. Wash and dry hands.

Body protection
Wear lightweight protective clothing.

Respiratory protection
No special protective equipment required.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Appearance</td>
<td>Form: liquid</td>
</tr>
<tr>
<td></td>
<td>Color: whitish color, slightly turbid</td>
</tr>
<tr>
<td>b) Odor</td>
<td>faint acid odor</td>
</tr>
<tr>
<td>c) Odor Threshold</td>
<td>not available</td>
</tr>
<tr>
<td>d) pH</td>
<td>3.8 +/- 0.4</td>
</tr>
<tr>
<td>e) Melting point/Freezing point</td>
<td>not available</td>
</tr>
<tr>
<td>f) Initial boiling point and boiling range</td>
<td>not available</td>
</tr>
<tr>
<td>g) Flash point</td>
<td>not applicable</td>
</tr>
<tr>
<td>h) Evaporation rate</td>
<td>not available</td>
</tr>
<tr>
<td>i) Flammability (solid, gas)</td>
<td>not available</td>
</tr>
<tr>
<td>j) Upper/lower flammability or explosive limits</td>
<td>not spontaneously flammable, non</td>
</tr>
</tbody>
</table>
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9.2 Other information
none

10 STABILITY AND REACTIVITY

10.1 Reactivity
Product is stable under normal storage conditions and if used according to specifications.

10.2 Chemical stability
Product is stable under normal storage conditions and if used according to specifications.

10.3 Possibility of hazardous reactions
No dangerous reactions known under conditions of normal use, handling and storage.

10.4 Conditions to avoid
no data available

10.5 Incompatible materials
no data available

10.6 Hazardous decomposition products
no data available

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
no data available

Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitization
no data available

Germ cell mutagenicity
no data available
Carcinogenicity
no data available

Reproductive toxicity
no data available

Specific target organ toxicity – single exposure
no data available

Specific target organ toxicity – repeated exposure
no data available

Aspiration hazard
no data available

Potential health effects
no data available

Signs and Symptoms of Exposure
no data available

12 ECOLOGICAL INFORMATION

12.1 Toxicity
no data available

12.2 Persistence and degradability
no data available

12.3 Bioaccumulative potential
no data available

12.4 Mobility in soil
no data available

12.5 Results of PBT and vPvB assessment
The substance does not meet the criteria for a classification
PBT not applicable
vPvB not applicable

12.6 Other adverse effects
no data available

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Waste must be disposed of in accordance with federal, state and local environmental control regulations.
14 TRANSPORT INFORMATION

14.1 UN number
ADR/RID: -  IMDG: -  IATA: -

14.2 UN proper shipping name
ADR/RID: Not dangerous good  IMDG: Not dangerous good  IATA: Not dangerous good

14.3 Transport hazard class(es)
ADR/RID: -  IMDG: -  IATA: -

14.4 Packing group
ADR/RID: -  IMDG: -  IATA: -

14.5 Environmental hazards
ADR/RID: no  IMDG Marine pollutant: no  IATA: no

14.6 Special precautions for user
no data available

14.7 Transport in bulk according to Annex of MARPOL73/78 and the IBC Code
no data available

15 REGULATORY INFORMATION

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

EU regulation
This material safety datasheet complies with the requirements of Regulation (EC) No 1907/2006.

U.S. Federal Regulations
TSCA inventory: This product is being sent to you as a Research and Development product as defined by the Toxic Substances Act (TSCA) of 1976. Due to TSCA’s R&D exemption, this product is not listed on the U.S. EPA’s Toxic Substances Control Act (TSCA’s) inventory. As a TSCA exempt R&D substance, this product must be used by or directly under the supervision of a technically qualified individual(s) as defined by TSCA. This product must not be used for commercial purposes or in formulations used for commercial purposes.

15.2 Chemical safety assessment
For this product a chemical safety assessment was not carried out.

16 OTHER INFORMATION

Abbreviations and acronyms
ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG International Maritime Code for Dangerous Goods
IATA International Air Transport Association
PBT persistent, bioaccumulative, toxic
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals
RID Regulations Concerning the International Carriage of Dangerous Goods by Rail
Further Information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as guide. All materials and mixtures may present unknown hazards and should be used with caution. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.