

## SAFETY DATA SHEET

### Hydrophilic Polymer Elastomer Ball

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

SDS created for INDIA according to GHS

##### 1.1. Product identifier

Trade name: Hydrophilic Polymer Elastomer Ball

Other names / Synonyms: H-1000-0169-01-A

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

Relevant identified uses of the substance or mixture: Industrial professional use for Renishaw REVO Ultrasonic Probe 1 (RUP1)  
 Restricted to professional users.

Uses advised against : None known.

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

Company and address: **Renishaw plc**  
 New Mills  
 Wotton-under-Edge,  
 GL12 8JR, Gloucestershire,  
 United Kingdom  
 +44 (0) 1453 524524  
 www.renishaw.com

E-mail: msds@renishaw.com

SDS date: 05/09/2025

SDS Version: 1.0

##### 1.4. Emergency telephone number

Contact the local emergency services.

See section 4 "First aid measures".

Emergency contact from supplier: +44 (0) 1453 524524 (UK office hours 08:00 to 17:00 UTC Monday to Thursday, 08:00 to 13:00 Friday)

#### SECTION 2: Hazards identification

Classified according to GHS.

##### 2.1. Classification of the substance or mixture

Acute Tox. 4; H302, Harmful if swallowed.

STOT SE 3; H336, May cause drowsiness or dizziness.

STOT RE 2; H373, May cause damage to organs through prolonged or repeated exposure.

##### 2.2. Label elements

Hazard pictogram(s):



Signal word: Warning

Hazard statement(s): Harmful if swallowed. (H302)  
 May cause drowsiness or dizziness. (H336)  
 May cause damage to organs through prolonged or repeated exposure. (H373)

Precautionary statement(s):

*General* Not applicable.

*Prevention* Do not breathe dust. (P260)  
 Wash hands and exposed skin thoroughly after handling. (P264)

*Response* Call a POISON CENTER/doctor if you feel unwell. (P312)

According to GHS Rev. 8, 2019

|                       |                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------|
| <i>Storage</i>        | Store in a well-ventilated place. Keep container tightly closed. (P403+P233)<br>Store locked up. (P405) |
| <i>Disposal</i>       | Dispose of contents/container in accordance with local regulation.<br>(P501)                            |
| Hazardous substances: | ethanediol;ethylene glycol                                                                              |
| Additional labelling: |                                                                                                         |

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable. This product is a mixture.

#### 3.2. Mixtures

| Product/substance                             | Identifiers                             | % w/w  | Classification                                           | Note |
|-----------------------------------------------|-----------------------------------------|--------|----------------------------------------------------------|------|
| ethanediol;ethylene glycol                    | CAS No.: 107-21-1<br>EC No.: 203-473-3  | 60-80% | Acute Tox. 4, H302<br>STOT SE 3, H336<br>STOT RE 2, H373 |      |
| 2-Propenoic acid,<br>homopolymer, sodium salt | CAS No.: 9003-04-7<br>EC No.: 618-349-8 | 1-3%   | Eye Irrit. 2, H319                                       |      |

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

#### Other information

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                      |                                                                                                                                                                                                                                                                          |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General information: | In the case of accident: Contact a doctor or casualty department – bring the label or this safety data sheet.<br>Contact a doctor if in doubt about the injured person's condition or if the symptoms persist.<br>Never give an unconscious person water or other drink. |
| Inhalation:          | Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.                                                                                                                                               |
| Skin contact:        | Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.<br>If skin irritation occurs: Get medical advice/attention.                                  |
| Eye contact:         | If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.                                                                                              |
| Ingestion:           | IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.<br>Rinse mouth.                                                                                                                                                                                            |
| Burns:               | Not applicable.                                                                                                                                                                                                                                                          |

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

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

Call a POISON CENTER/doctor if you feel unwell.

#### Information to medics

Bring this safety data sheet or the label from this product.

### SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

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

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO<sub>2</sub>)

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the national poisons emergency services in order to obtain further advice.

## SECTION 6: Accidental release measures

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

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Contaminated areas may be slippery.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

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

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.

Limit spillage, sweep up and shovel into appropriate containers for disposal. Store in suitable, closed containers for disposal.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

### 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid direct contact with the product.

Avoid contact during pregnancy and while nursing.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

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

No special conditions required.

Recommended storage material: Always store in containers of the same material as the original container.

Storage conditions: No specific requirements.

Incompatible materials: Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

ethanediol;ethylene glycol

Long term exposure limit (8 hours) (ppm): 20

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 52

Short term exposure limit (15 minutes) (ppm): 40

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 104

According to GHS Rev. 8, 2019

Annotations:

"Skin" = Possibility of significant uptake through the skin.

Commission Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164 and (EU) 2019/1831. Directive 2004/37/EC (CMRD), Annex III.

## 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations: Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios: There are no exposure scenarios implemented for this product.

Exposure limits: Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures: Apply standard precautions during use of the product. Avoid inhalation of gas or dust. Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and showers are clearly marked.

Hygiene measures: In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure: Keep damming materials near the workplace. If possible, collect spillage during work.

## Individual protection measures, such as personal protective equipment

Generally: Use only CE marked protective equipment.

Respiratory Equipment:

| Type                              | Class | Colour | Standards |
|-----------------------------------|-------|--------|-----------|
| No special when used as intended. |       |        |           |

Skin protection:

| Recommended                         | Type/Category | Standards |
|-------------------------------------|---------------|-----------|
| No special when used as - intended. |               |           |

Hand protection:

| Material | Glove thickness (mm) | Breakthrough time (min.) | Standards                 |
|----------|----------------------|--------------------------|---------------------------|
| Nitrile  | 0.4                  | > 480                    | EN374-2, EN16523-1, EN388 |



Eye protection:

| Type                                                                                | Standards |
|-------------------------------------------------------------------------------------|-----------|
| Wear safety goggles with protective side shields in accordance with standard EN166. | EN 166    |



## SECTION 9: Physical and chemical properties

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

Form: Solid  
 Colour: Red  
 Odour: None  
 Odour threshold (ppm): No data available.  
 pH: Not applicable - product is a solid

According to GHS Rev. 8, 2019

|                               |                                     |
|-------------------------------|-------------------------------------|
| Density (g/cm <sup>3</sup> ): | No data available.                  |
| Kinematic viscosity:          | Not applicable - product is a solid |
| Particle characteristics:     | No data available.                  |

#### Phase changes

|                                          |                                     |
|------------------------------------------|-------------------------------------|
| Melting point/Freezing point (°C):       | 70                                  |
| Softening point/range (°C):              | Does not apply to solids.           |
| Boiling point (°C):                      | Not applicable - product is a solid |
| Vapour pressure:                         | Not applicable - product is a solid |
| Relative vapour density:                 | Not applicable - product is a solid |
| Decomposition temperature (°C):          | Not applicable - product is a solid |
| Evaporation rate (n-butylacetate = 100): | Not applicable - product is a solid |

#### Data on fire and explosion hazards

|                                 |                                     |
|---------------------------------|-------------------------------------|
| Flash point (°C):               | Not applicable - product is a solid |
| Flammability (°C):              | The material is not combustible.    |
| Auto-ignition temperature (°C): | No data available.                  |
| Explosion limits (% v/v):       | Does not apply to solids.           |

#### Solubility

|                                       |                    |
|---------------------------------------|--------------------|
| Solubility in water:                  | Insoluble          |
| n-octanol/water coefficient (LogKow): | No data available. |
| Solubility in fat (g/L):              | No data available. |

#### 9.2. Other information

|                                          |                                     |
|------------------------------------------|-------------------------------------|
| No data available.                       |                                     |
| Evaporation rate (n-butylacetate = 100): | Not applicable - product is a solid |
| Other physical and chemical parameters:  | No data available.                  |
| Oxidizing properties:                    | No data available.                  |

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No data available.

#### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

#### 10.3. Possibility of hazardous reactions

None known.

#### 10.4. Conditions to avoid

None known.

#### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

According to GHS Rev. 8, 2019

## Acute toxicity

|                    |                            |
|--------------------|----------------------------|
| Product/substance  | ethanediol;ethylene glycol |
| Species:           | Rat                        |
| Route of exposure: | Oral                       |
| Test:              | LD50                       |
| Result:            | 7712 mg/kg                 |

|                    |                            |
|--------------------|----------------------------|
| Product/substance  | ethanediol;ethylene glycol |
| Species:           | Mouse                      |
| Route of exposure: | Dermal                     |
| Test:              | LD50                       |
| Result:            | >3500 mg/kg                |

|                    |                            |
|--------------------|----------------------------|
| Product/substance  | ethanediol;ethylene glycol |
| Species:           | Rat                        |
| Route of exposure: | Inhalation                 |
| Test:              | LC50                       |
| Result:            | >2.5 mg/L                  |

|                    |                                            |
|--------------------|--------------------------------------------|
| Product/substance  | 2-Propenoic acid, homopolymer, sodium salt |
| Species:           | Rat                                        |
| Route of exposure: | Oral                                       |
| Test:              | LD50                                       |
| Result:            | >5000 mg/kg                                |

Harmful if swallowed.

## 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 sensitisation

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

## 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

|                   |                            |
|-------------------|----------------------------|
| Product/substance | ethanediol;ethylene glycol |
| Target organ:     | Central nervous system     |

May cause drowsiness or dizziness.

## STOT-repeated exposure

|                   |                            |
|-------------------|----------------------------|
| Product/substance | ethanediol;ethylene glycol |
| Target organ:     | Kidney                     |

May cause damage to organs through prolonged or repeated exposure.

## Aspiration hazard

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

## Long term effects

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

According to GHS Rev. 8, 2019

## SECTION 12: Ecological information

### 12.1. Toxicity

Product/substance ethanediol;ethylene glycol  
 Species: Fish, Oncorhynchus mykiss  
 Duration: 96 hours  
 Test: LC50  
 Result: 41000 mg/L

Product/substance ethanediol;ethylene glycol  
 Species: Daphnia, Daphnia magna  
 Duration: 48 hours  
 Test: EC50  
 Result: 46300 mg/L

Product/substance ethanediol;ethylene glycol  
 Species: Algae, Pseudokirchneriella subcapitata  
 Duration: 96 hours  
 Test: EC50  
 Result: 6500 mg/L

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

### 12.2. Persistence and degradability

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

### 12.3. Bioaccumulative potential

Product/substance ethanediol;ethylene glycol  
 LogKow: -1.93  
 Conclusion: -

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

### 12.6. Other adverse effects

None known.

## SECTION 13: Disposal considerations

### Waste treatment methods

Dispose of contents/container to an approved waste disposal plant.

### Specific labelling

### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

## SECTION 14: Transport information

|      | 14.1<br>UN / ID | 14.2<br>UN proper shipping name | 14.3<br>Hazard class(es) | 14.4<br>PG* | 14.5<br>Env** | Other<br>information: |
|------|-----------------|---------------------------------|--------------------------|-------------|---------------|-----------------------|
| ADR  | -               | -                               | -                        | -           | -             | -                     |
| IMDG | -               | -                               | -                        | -           | -             | -                     |
| IATA | -               | -                               | -                        | -           | -             | -                     |

\* Packing group

\*\* Environmental hazards

### Additional information

Not dangerous goods according to ADR, IATA and IMDG.

### 14.6. Special precautions for user

Not applicable.

According to GHS Rev. 8, 2019

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

### SECTION 15: Regulatory information

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

|                                 |                                                                                                                                                                                                                                                                                                                               |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Restrictions for application:   | <p>Restricted to professional users.</p> <p>People under the age of 18 shall not be exposed to this product.</p> <p>Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.</p> |
| Demands for specific education: | No specific requirements.                                                                                                                                                                                                                                                                                                     |
| Additional information:         | Not applicable.                                                                                                                                                                                                                                                                                                               |
| Sources:                        | Globally Harmonized System of Classification and Labelling of Chemicals (GHS Rev. 8, 2019)                                                                                                                                                                                                                                    |

#### 15.2. Chemical safety assessment

No

### SECTION 16: Other information

#### Full text of H-phrases as mentioned in section 3

H302, Harmful if swallowed.  
 H319, Causes serious eye irritation.  
 H336, May cause drowsiness or dizziness.  
 H373, May cause damage to organs through prolonged or repeated exposure.

#### The full text of identified uses as mentioned in section 1

None known.

#### Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists  
 ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
 ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 CAS = Chemical Abstracts Service  
 CERCLA = Comprehensive Environmental Response Compensation and Liability Act  
 DOT = Department of Transportation  
 EINECS = European Inventory of Existing Commercial chemical Substances  
 EPCRA = Emergency Planning and Community Right-To-Know Act  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 HCIS = Hazardous Chemical Information System  
 HNOC = Hazards Not Otherwise Classified  
 IARC = International Agency for Research on Cancer  
 IATA = International Air Transport Association  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 NFPA = National Fire Protection Association  
 NIOSH = National Institute for Occupational Safety and Health  
 OECD = Organisation for Economic Co-operation and Development  
 OSHA = Occupational Safety and Health Administration  
 PBT = Persistent, Bioaccumulative and Toxic  
 RCRA = Resource Conservation and Recovery Act  
 RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
 RRN = REACH Registration Number  
 SARA = Superfund Amendments and Reauthorization Act  
 SCL = A specific concentration limit.  
 STEL = Short-term exposure limits

According to GHS Rev. 8, 2019

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STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TSCA = The Toxic Substances Control Act

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

#### **Additional information**

In accordance with GHS the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by GHS.

#### **The safety data sheet is validated by**

Safety Data Sheet Consulting, MAE

#### **Other**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: IN-en