

SAFETY DATA SHEET

# Hydrophilic Polymer Elastomer Ball

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

### 1.1. Product identifier

**Trade name**

Hydrophilic Polymer Elastomer Ball

**Other names / Synonyms**

H-1000-0368-01-A

**Unique formula identifier (UFI)**

CGC3-155T-2104-UDT9

### 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

**Revision**

02/04/2024

**SDS Version**

1.0

### 1.4. Emergency telephone number

Emergency: 112 (24h service)

Hospital Malta Mater Dei, Medicines & Poisons information office: +356 2545 6508

See also 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 Regulation (EC) No. 1272/2008 (CLP).

### 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

-

##### Prevention

Do not breathe dust/fume/vapour. (P260)

Wash hands and exposed skin thoroughly after handling. (P264)

##### Response

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

##### Storage

Store in a well-ventilated place. Keep container tightly closed. (P403+P233)

Store locked up. (P405)

##### Disposal

Dispose of contents/container in accordance with local regulation (P501)

#### Hazardous substances

ethanediol;ethylene glycol

#### Additional labelling

UFI: CGC3-155T-2104-UDT9

### 2.3. Other hazards

#### Additional warnings

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

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## 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 EC No.: 203-473-3 REACH: Index No.:	60-80%	Acute Tox. 4, H302 STOT SE 3, H336 STOT RE 2, H373	[1]
2-Propenoic acid, homopolymer, sodium salt	CAS No.: 9003-04-7 EC No.: 618-349-8 REACH: Index No.:	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

[1] European occupational exposure limit.

## 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. The doctor can contact Hospital Malta Mater Dei, Medicines & Poisons information office: +356 2545 6508  
Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. 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.

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.  
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 call 112 for emergencies otherwise contact Hospital Malta Mater Dei, Medicines & Poisons information office: +356 2545 6508 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, 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 temperature**

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

Annotations:

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

Protection Of The Health And Safety Of Workers From The Risks Related To Chemical Agents At Work Regulations, 5th September 2003 (Subsidiary Legislation 424.24)

**DNEL**

ethanediol;ethylene glycol

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	53 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	106 mg/kg bw/day
Long term – Local effects - General population	Inhalation	7 mg/m <sup>3</sup>
Long term – Local effects - Workers	Inhalation	35 mg/m <sup>3</sup>

**PNEC**

No data available.

**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.	-	-	
<b>Hand protection</b>			
Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Nitrile	0.4	> 480	EN374-2, EN374-3, EN388
<b>Eye protection</b>			
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

#### Physical state

Solid

#### Colour

Red

#### Odour / Odour threshold

None

#### pH

Not applicable - product is a solid

#### Density (g/cm<sup>3</sup>)

Testing not relevant or not possible due to the nature of the product.

#### Kinematic viscosity

Not applicable - product is a solid

#### Particle characteristics

Testing not relevant or not possible due to the nature of the product.

#### Phase changes

##### Melting point/Freezing point (°C)

70

##### Softening point/range (waxes and pastes) (°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

#### 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)

Testing not relevant or not possible due to the nature of the product.

##### Lower and upper explosion limit (% v/v)

Does not apply to solids.

#### Solubility

##### Solubility in water

Insoluble

##### n-octanol/water coefficient (LogKow)

Testing not relevant or not possible due to the nature of the product.

#### Solubility in fat (g/L)

Testing not relevant or not possible due to the nature of the product.

#### 9.2. Other information

##### Evaporation rate (n-butylacetate = 100)

Not applicable - product is a solid

##### Other physical and chemical parameters

No data available.

##### Oxidizing properties

Testing not relevant or not possible due to nature of the product.

### 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

The product is not degraded when used as specified in section 1.

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### 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:	LD50
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.

## 11.2. Information on other hazards

### 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.

### Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

### Other information

None known.

## 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

### 12.2. Persistence and degradability

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

### 12.3. Bioaccumulative potential

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

### 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. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

### 12.7. Other adverse effects

None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.  
 HP 5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity  
 HP 6 - Acute toxicity  
 Dispose of contents/container to an approved waste disposal plant.  
 Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

#### EWC code

Not applicable.

### Contaminated packing

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

## SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other 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.

### 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

#### Restrictions for application

Restricted to professional users.  
 People under the age of 18 shall not be exposed to this product.  
 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.

#### Demands for specific education

No specific requirements.

#### SEVESO - Categories / dangerous substances

Not applicable.

#### Additional information

Not applicable.

#### Sources

Protection Of Young Persons At Work Places Regulations, 1st January 2002 (Subsidiary Legislation 424.10)  
 Protection Of Maternity At Work Places Regulations, 1st January 2001 (Subsidiary Legislation 424.11)  
 Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.  
 Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).  
 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

### 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.

### Abbreviations and acronyms



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  
CE = Conformité Européenne (European conformity)  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
CSA = Chemical Safety Assessment  
CSR = Chemical Safety Report  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EINECS = European Inventory of Existing Commercial chemical Substances  
ES = Exposure Scenario  
EUH statement = CLP-specific Hazard statement  
EuPCS = European Product Categorisation System  
EWC = European Waste Catalogue  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IARC = International Agency for Research on Cancer (IARC)  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
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)  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SCL = A specific concentration limit  
SVHC = Substances of Very High Concern  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
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

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).

#### The safety data sheet is validated by

EcoOnline

#### 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: MT-en