

Safety Data Sheet

## 1. IDENTIFICATION OF THE SUBSTANCES/MIXTURE AND OF THE **COMPANY/UNDERTAKING**

1.1.	Product Identifiers Product Code(s)	HB0567
	Product Name	RuBi Glutamate
1.2.	Relevant identified uses of the substance or mixture and uses adRecommended useFor research use only – Not for human	
	Uses advised against	No information available

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

HelloBio Ltd
Unit 3 IO Centre
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UK
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For further information, please contact: technicalhelp@hellobio.com

1.4. **Emergency Telephone number Emergency telephone** 

Tel: +44 (0)117 318 0505

### 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture GHS/CLP - REGULATION (EC) No 1272/2008

DSD/DPD - Classification according to EU Directives 67/548/EEC or 1999/45/EC

According to present data no classification and labelling is required according to Directives 67/548/EEC or 1999/45/EC

2.2. Label Elements Not Dangerous

> **Precautionary Statements** P280 - Wear protective gloves/ eye protection/ face protection

#### 2.3. Other hazards

Caution - substance not yet completely tested

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1.	Substances	
	Product Name:	RuBi Glutamate
	Synonyms:	
	Formula: CAS Number	$C_{28}H_{33}N_5O_4PRu.Na(PF_6)_2$ Molecular Weight: 948.56

# 4. FIRST AID MEASURES

4.1.

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If symptoms persist, call a physician.
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
Rinse mouth. If symptoms persist, call a physician
Move to fresh air. If symptoms persist, call a physician.

- **4.2. Most important symptoms and effects, both acute and delayed** To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.
- **4.3.** Indication of immediate medical attention and special treatment needed Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

# 5. FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

5.2. Special hazards arising from the substance or mixture In combustion, may emit toxic fumes.

### 5.3. Precautions for fire-fighters

Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

# 6. ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions, protective equipment and emergency procedures Do not take action without suitable protective clothing – see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapours, mist, dust or gas.
- 6.2. Environmental precautions

Do not let product enter drains.

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

Cover spillage with suitable absorbent material. Using non-spark tools, sweep up material and place in an appropriate container. Decontaminate spill site with 10% caustic solution and ventilate area until disposal is complete. Hold all material for appropriate disposal as described under section 13 of SDS.

### 6.4. Reference to other sections

For required PPE see section 8. For disposal see section 13.

# 7. HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

7.2. Conditions for safe storage, including any incompatibilities. Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. Recommended storage temperature: Store at RT

### 7.3. Specific end uses

Use in a laboratory fume hood where possible. Refer to employer's COSHH risk assessment.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### 8.2. Exposure controls

### Appropriate engineering controls

Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

#### Personal protective equipment

### Eye/face protection

Use appropriate safety glasses.

### Skin protection

Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling.

#### **Body protection**

Wear appropriate protective clothing.

#### **Respiratory protection**

If risk assessment indicates necessary, use a suitable respirator.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance	Orange Solid	Vapour pressure	No data available
Odour	No data available	Vapour density	No data available
Odour threshold	No data available	Relative density	No data available
рН	No data available	Solubility(ies)	Soluble in water
Melting/freezing point	No data available	Partition coefficient	No data available
Boiling point/range	No data available	Auto-ignition temperature	No data available
Flash Point	No data available	Decomposition temperature	No data available
Evaporation rate	No data available	Viscosity	No data available
Flammability (solid, gas)	No data available	Explosive properties	No data available
Upper/lower flammability or explosive limits	No data available	Oxidising properties	No data available

# 9.2. Other safety information

No data available

# **10. STABILITY AND REACTIVITY**

### 10.1. Reactivity

Stable under recommended transport or storage conditions.

#### 10.2. Chemical Stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions.

#### 10.4. Conditions to avoid

Heat, moisture

### 10.5. Incompatible materials

Strong acids/alkalis, strong oxidising/reducing agents.

#### 10.6. Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NOx), Phosphorous oxides.

### **11. TOXICOLOGICAL INFORMATION**

### 11.1. Information on toxicological effects

Acute Toxicity	No Information available
Eye contact	No Information available
Skin contact	No Information available
Ingestion	No Information available
<u>Chronic toxicity</u> Corrosivity	No Information available
Sensitization	No Information available
Neurological effects	No Information available
Reproductive toxicity	No Information available
Mutagenic effects	No Information available
Target Organ Effects	No Information available

### 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

### **Ecotoxicity effects**

As supplied, the preparation is not expected to present significant adverse environmental effects

#### 12.2. Persistence and degradability No Information available

- 12.3. Bioaccumalative potential No Information available
- 12.4. Mobility in soil No Information available
- 12.5. Results of PBT and vPvB assessment No Information available

#### 12.6. Other adverse effects No Information available

# 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

### Waste from residues/unused products

Dispose of in accordance with local regulations

### **Contaminated packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal.

### Other information

According to the European Waste Catalogue. Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

### 14. TRANSPORT INFORMATION

ADR	Not dangerous goods
ΙΑΤΑ	Not dangerous goods
DOT	Not dangerous goods

## **15. REGULATORY INFORMATION**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture No information available

### 15.2. Chemical Safety Assessment

No information available

# **16. OTHER INFORMATION**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless stated in the text.