

Safety Data Sheet

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

1.1.	Product Identifiers Product Code(s)	HB3839
	Product Name	Citrinin
4.0		

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

 Recommended use
 For research use only – Not for human use

Uses advised against No information available

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

> HelloBio Ltd Unit 3 IO Centre Cabot Park Moorend Farm Avenue Avonmouth Bristol BS 11 0QL UK Tel: +44 (0)117 318 0505 Fax: +44 (01179 811 601

For further information, please contact: technicalsupport@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		
	Acute oral toxicity	Category 3	
	Acute dermal toxicity	Category 3	
	Acute inhalation toxicity - dust/mist	Category 3	
	Skin corrosion/irritation	Category 2	
	Carcinogenicity	Category 2	
	Reproductive toxicity	Category 2	

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

T - Toxic

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed

2.2. Label Elements



Signal Word

Danger

Hazard Statements

- H301 Toxic if swallowed
- H311 Toxic in contact with skin
- H331 Toxic if inhaled
- H315 Causes skin irritation
- H351 Suspected of causing cancer
- H361 Suspected of damaging fertility or the unborn child

Precautionary Statements

P301 + P310 - IF SWALLOWED: Immediately call POISON CENTER or doctor/

physician

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a positon comfortable for breathing

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P332 + P313 - If skin irritation occurs: Get medical advice/ attention

- P308 + P313 IF exposed or concerned: Get medical advice/ attention
- P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
- P280 Wear protective gloves/ eye protection/ face protection
- P361 Remove/Take off immediately all contaminated clothing
- P264 Wash face, hands and any exposed skin thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P271 Use only outdoors or in a well-ventilated area
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed
- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P330 Rinse mouth
- P501 Dispose of contents/ container to an approved waste disposal plant
- P405 Store locked up
- P363 Wash contaminated clothing before reuse

Other hazards

Caution – substance not yet completely tested

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Product Name:	Citrinin		
Synonyms:	(3R,4S)-6-Hydroxy	(3R,4S)-6-Hydroxy-3,4,5-trimethyl-8-oxo-3,4-	
	dihydroisochromene-7-carboxylic acid		
Formula:	C13H14O5	Molecular Weight: 250.3	
CAS Number	518-75-2		

4. FIRST AID MEASURES

4.1.	Description of first aid mea General advice	res If symptoms persist, call a physician.	
	Eye contact	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.	
	Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.	
	Ingestion	Rinse mouth. If symptoms persist, call a physician	
	Inhalation	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 selfcontained 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 +4°C

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

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Appearance	Yellow 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
pH	No data available	Solubility(ies)	methanol
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

11.1.

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 materialsStrong acids/alkalis, strong oxidising/reducing agents.

10.6. Hazardous decomposition products Carbon monoxide (CO), Carbon dioxide (CO₂), Nitrogen oxides (NOx), Phosphorous oxides.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute Toxicity Inhalation No Information available No Information available Eye contact Skin contact No Information available Ingestion No Information available Chronic toxicity Carcinogenicity Limited evidence of a carcinogenic effect. No Information available Corrosivity Sensitization No Information available **Neurological effects** No Information available **Reproductive toxicity** Product is or contains a chemical which is a known or suspected reproductive hazard No Information available **Mutagenic effects Target Organ Effects** No Information available **Developmental Toxicity** Contains ingredients that have suspected developmental hazards. Possible risk of harm tothe unborn child. May cause birth defects

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	Excepted Quantity
Proper shipping name	Toxins, extracted from living sources, solid, n.o.s. (Citrinin)
Hazard Class	6.1
UN/ID No	3462
Packing Group	III
ΙΑΤΑ	Excepted Quantity
Proper shipping name	Toxins, extracted from living sources, solid, n.o.s. (Citrinin)
Hazard Class	6.1
UN/ID No	3462
Packing Group	III
DOT	Excepted Quantity
Proper shipping name	Toxins, extracted from living sources, solid, n.o.s. (Citrinin)
Hazard Class	6.1
UN/ID No	3462
Packing Group	III

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.