



Safety Data Sheet

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

- 1.1. Product Identifiers**
Product Code(s) HB1794
Product Name Amitriptyline hydrochloride
- 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 (0)1179 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**
Classification according to Regulation (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

Acute toxicity, Oral (Category 3), H301
Eye irritation (Category 2), H319
Reproductive toxicity (Category 2), H361d
Short-term (acute) aquatic hazard (Category 1), H400
Long-term (chronic) aquatic hazard (Category 1), H410

2.2. Label Elements



Signal Word

Danger

Hazard Statements

H301 Toxic if swallowed.

H319 Causes serious eye irritation.

H361d Suspected of damaging the unborn child.

H410 Very toxic to aquatic life with long lasting effects

Precautionary Statements

P202 Do not handle until all safety precautions have been read and understood.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P501 - Dispose of contents/ container to an approved waste disposal plant

P405 - Store locked up

P363 - Wash contaminated clothing before use

Other hazards

Caution – substance not yet completely tested

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Product Name: Amitriptyline hydrochloride
Synonyms: 3-(10,11-Dihydro-5*H*-dibenzo[*a,d*]cyclohepten-5-ylidene)-*N,N*-dimethyl-1-propanamine hydrochloride
Formula: C₂₀H₂₃N.HCl Molecular Weight: 313.87
CAS Number 549-18-8

Component	Classification	Concentration
Amitriptyline hydrochloride CAS-No. EC-No. 549-18-8 208-964-6	Acute Tox. 3; Eye Irrit. 2; Repr. 2; Aquatic Acute 1; Aquatic Chronic 1; H301, H319, H361d, H400, H410 M-Factor - Aquatic Acute: 1	<= 100 %

4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice 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

The most important known symptoms and effects are described in the labelling (see section 2.2 and/or in section 11

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	powder	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	5.0 - 6.0 at 10 g/l	Solubility(ies)	water
Melting/freezing point	198 - 200 °C	Partition coefficient	log Pow: 5.0
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**
The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
- 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 (CO₂), Nitrogen oxides (NO_x), Phosphorous oxides.

11. TOXICOLOGICAL INFORMATION

- 11.1. Information on toxicological effects**
Acute Toxicity

LD50 Oral - Rat - 240 mg/kg
Remarks: Behavioral:Convulsions or effect on seizure threshold.
Behavioral:Ataxia.
Lungs, Thorax, or Respiration:Dyspnea.
LDLO Oral - Human - female - 19 mg/kg
Remarks: Behavioral:Coma.
Lungs, Thorax, or Respiration:Dyspnea.
Inhalation: No data available
Dermal: No data available

Inhalation No Information available

Eye contact Eyes - Rabbit
Result: Irritating to eyes.

Skin contact No Information available

Ingestion No Information available

Chronic toxicity

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

11.2. Additional Information

Endocrine disrupting properties

Product: Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1. Toxicity Ecotoxicity effects

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 0.25 mg/l - 96 h
(OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 0.39 mg/l - 24 h

Toxicity to algae ErC50 - Selenastrum capricornutum (green algae) - 0.16 mg/l - 72 h

12.2. Persistence and degradability

According to the results of tests of biodegradability this product is not readily biodegradable

12.3. Bioaccumulative 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

Proper shipping name	Toxic solid, organic, n.o.s. (Amitriptyline hydrochloride)
Hazard Class	6.1
UN/ID No	2811
Packing Group	III

IATA

Proper shipping name	Toxic solid, organic, n.o.s. (Amitriptyline hydrochloride)
Hazard Class	6.1
UN/ID No	2811
Packing Group	III

DOT

Proper shipping name	Toxic solid, organic, n.o.s. (Amitriptyline hydrochloride)
Hazard Class	6.1
UN/ID No	2811
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.