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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 24.02.2020 Version number 1 Revision: 24.02.2020

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

- · 1.1 Product identifier
- · Product name: Amitriptyline hydrochloride Assay Standard
- · Part number: Cat 016
- · CAS Number:

549-18-8

· EC number:

208-964-6

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

No further relevant information available.

- · Application of the substance / the mixture Reference material for laboratory use only
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

British Pharmacopoeia Commission

**MHRA** 

10 South Colonnade

Canary Wharf

London E14 4PU

United Kingdom

- · Further information obtainable from: eMail: bpcrs@mhra.gov.uk
- · 1.4 Emergency telephone number: +44 (0)20 3080 6561 (Monday Friday: 8am 5pm)

## SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS06 skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.



GHS08 health hazard

Repr. 2 H361d Suspected of damaging the unborn child.

STOT SE 1 H370 Causes damage to organs.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

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#### · Hazard pictograms







## · Signal word Danger

#### · Hazard statements

H301 Toxic if swallowed.

H361d Suspected of damaging the unborn child.

H370 Causes damage to organs.

H410 Very toxic to aquatic life with long lasting effects.

#### · Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

#### · 2.3 Other hazards

#### · Results of PBT and vPvB assessment

· **PBT**: Not applicable.

· vPvB: Not applicable.

#### SECTION 3: Composition/information on ingredients

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description

549-18-8 Amitriptyline hydrochloride

- · Identification number(s) None
- · EC number: 208-964-6
- · RTECS: HO9450000
- · Additional information: For the wording of the listed hazard phrases refer to section 16.

#### SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing:

Rinse mouth. Do not induce vomiting.

Call for a doctor immediately.

· 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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· 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

#### **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable for surrounding conditions.
- · 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

#### SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Avoid formation of dust.
- · 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Dispose of contaminated material as waste according to item 13.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

 $See \ Section \ 8 \ for \ information \ on \ personal \ protection \ equipment.$ 

See Section 13 for disposal information.

## SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Remove dust thoroughly.

Store in cool, dry place in tightly closed receptacles.

- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Please refer to the manufacturer's certificate for specific storage and transport temperature conditions.

Store only in the original receptacle unless other advice is given on the CoA.

Keep container in a well-ventilated place. Keep away from sources of ignition and heat.

- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions: None.
- · 7.3 Specific end use(s) No further relevant information available.

#### SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- · Additional information: Lists used were valid at the time of SDS preparation.

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- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

· Respiratory protection:

Not required.

Use suitable respiratory protective device in case of insufficient ventilation.

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374



Protective gloves

- · Material of gloves Butyl rubber, BR
- · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Safety glasses

#### SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· Appearance:		
Form:	Crystalline powder	
Colour:	Off white	
· Odour:	Odourless	
· Odour threshold:	Not determined.	
· pH-value:	Not applicable.	

· Auto-ignition temperature:

· Explosive properties:

· General Information

· Change in condition 195-199 °C *Melting point/freezing point:* Initial boiling point and boiling range: Not determined. · Flash point: Not applicable. · Flammability (solid, gas): Not determined. Not determined · Ignition temperature: · Decomposition temperature: Not determined.

Not determined.

Not determined.

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Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure:	Not applicable.	
Density:	Not determined.	
Relative density	Not determined.	
Vapour density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with	Slightly Chloroform, Methanol, Water	
water at 24 °C:	0.00971 g/l	
Partition coefficient: n-octanol/water:	4.92 log Kow	
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
9.2 Other information	No further relevant information available.	

## SECTION 10: Stability and reactivity

· 10.1 Reactivity

Stable under normal conditions.

 $No\ further\ relevant\ information\ available.$ 

- · 10.2 Chemical stability Stable under normal conditions.
- · Thermal decomposition / conditions to be avoided:

Formation of toxic gases is possible during heating or in case of fire.

- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid Heat.
- · 10.5 Incompatible materials: Strong oxidizing agents.
- · 10.6 Hazardous decomposition products:

Formation of toxic gases is possible during heating or in case of fire.

Nitrogen oxides (NOx)

Hydrogen chloride (HCl)

# SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity

Toxic if swallowed.

· LD/LC50 values relevant for classification:		
Oral	LD50	140 mg/kg (rat)
	$LD\ 50\ (Intraperitoneal)$	67 mg/kg (rat)
	TD L0 (Subcutaneous )	385 mg/kg (rat)

- · Primary irritant effect:
- · 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 or skin sensitisation Based on available data, the classification criteria are not met.

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- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
  Repr. 2
- · 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

Suspected of damaging the unborn child.

· STOT-single exposure

Causes damage to organs.

- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity:

EC50/48 h | 4.82 mg/l (daphnia)

LC50/96 h 1.9 mg/l (fish)

- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxicological effects:
- · Remark: Very toxic for fish
- · Additional ecological information:
- · General notes:

 $Water\ hazard\ class\ 3\ (German\ Regulation)\ (Self-assessment):\ extremely\ hazardous\ for\ water$ 

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

- · 12.5 Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

## SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

- · Uncleaned packaging:
- · Recommendation: Dispose of in accordance with national regulations.

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SECTION 14: Transport informat	ion
14.1 UN-Number	
ADR, IMDG, IATA	UN2811
ADR	2811 TOXIC SOLID, ORGANIC, N.O.S. (Amitriptyli
	hydrochloride), ENVIRONMENTALLY HAZARDOUS
IMDG	TOXIC SOLID, ORGANIC, N.O.S. (Amitriptylin
	hydrochloride), MARINE POLLUTANT
IATA	TOXIC SOLID, ORGANIC, N.O.S. (Amitriptyli
	hydrochloride)
14.3 Transport hazard class(es)	
ADR, IMDG	
Class	6.1 Toxic substances.
Label	6.1
IATA	
6	
Class	6.1 Toxic substances.
Label	6.1
14.4 Packing group	
ADR, IMDG, IATA	III
14.5 Environmental hazards:	Environmentally hazardous substance, solid; Mari
	Pollutant
	Symbol (fish and tree)
	Symbol (fish and tree) Symbol (fish and tree)
Special marking (ADR):  14.6 Special precautions for user	
Special marking (ADR):  14.6 Special precautions for user Danger code (Kemler):	Symbol (fish and tree)  Warning: Toxic substances.  60
Special marking (ADR):  14.6 Special precautions for user Danger code (Kemler): EMS Number:	Symbol (fish and tree)  Warning: Toxic substances. 60 F-A,S-A
Special marking (ADR):  14.6 Special precautions for user Danger code (Kemler): EMS Number: Stowage Category	Symbol (fish and tree)  Warning: Toxic substances.  60  F-A,S-A A
Special marking (ADR):  14.6 Special precautions for user Danger code (Kemler): EMS Number: Stowage Category  14.7 Transport in bulk according to Anne	Symbol (fish and tree)  Warning: Toxic substances. 60 F-A,S-A A  x II of
14.7 Transport in bulk according to Anne Marpol and the IBC Code	Symbol (fish and tree)  Warning: Toxic substances.  60  F-A,S-A  A
Special marking (ADR):  14.6 Special precautions for user Danger code (Kemler): EMS Number: Stowage Category  14.7 Transport in bulk according to Anne Marpol and the IBC Code  Transport/Additional information:	Symbol (fish and tree)  Warning: Toxic substances. 60 F-A,S-A A  x II of
Special marking (ADR):  14.6 Special precautions for user Danger code (Kemler): EMS Number: Stowage Category  14.7 Transport in bulk according to Anne Marpol and the IBC Code  Transport/Additional information: ADR	Symbol (fish and tree)  Warning: Toxic substances. 60 F-A,S-A A  x II of Not applicable.
Special marking (ADR):  14.6 Special precautions for user Danger code (Kemler): EMS Number: Stowage Category  14.7 Transport in bulk according to Anne Marpol and the IBC Code  Transport/Additional information: ADR Limited quantities (LQ)	Symbol (fish and tree)  Warning: Toxic substances. 60 F-A,S-A A  x II of Not applicable.  5 kg
Special marking (ADR):  14.6 Special precautions for user Danger code (Kemler): EMS Number: Stowage Category  14.7 Transport in bulk according to Anne Marpol and the IBC Code  Transport/Additional information: ADR	Symbol (fish and tree)  Warning: Toxic substances. 60 F-A,S-A A  x II of Not applicable.  5 kg Code: E1
Special marking (ADR):  14.6 Special precautions for user Danger code (Kemler): EMS Number: Stowage Category  14.7 Transport in bulk according to Anne Marpol and the IBC Code  Transport/Additional information: ADR Limited quantities (LQ)	Symbol (fish and tree)  Warning: Toxic substances. 60 F-A,S-A A  x II of Not applicable.  5 kg



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· Tunnel restriction code	E
· UN ''Model Regulation'':	UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (AMITRIPTYLINE HYDROCHLORIDE), 6.1, III, ENVIRONMENTALLY HAZARDOUS

#### SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- · Seveso category

H2 ACUTE TOXIC

E1 Hazardous to the Aquatic Environment

- · Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. British Pharmacopoeia Commission Office makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

#### · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxicity - Category 3

Repr. 2: Reproductive toxicity - Category 2

STOT SE 1: Specific target organ toxicity (single exposure) - Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

#### · Sources

Tables 3.1 and 3.2 from Annex 6 of EC 1272/2008, EC 1907/2006, EH40/2005 as amended 2011, Registry of Toxic Effects of Chemical Substances (RTECS), The Dictionary of Substances and their Effects, 1st Edition, IUCLID.

· Data compared to the previous version altered. All sections have been updated.

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