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

Printing date 14.06.2021

Version number 2 (replaces version 1)

Revision: 14.06.2021

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

· 1.1 Product identifier

• Product name: Pseudooxynicotine Dihydrochloride (4-(Methylamino)-1-(3-pyridyl) butan-1-one Dihydrochloride)

- · Part number: MM0517.17
- CAS Number:
- 66093-90-1 • **EC number:**
- 692-649-7
- 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

- \cdot 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: LGC Limited Queens Road Teddington Middlesex TW11 0LY UNITED KINGDOM

Tel :+44 (0) 20 8943 7000 Fax :+44 (0) 20 8943 2767 eMail : gb@lgcstandards.com Web : www.lgcstandards.com

Further information obtainable from: Product safety department eMail : sds-request@lgcgroup.com
1.4 Emergency telephone number: For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire Exposure, or Accident Call CHEMTREC: USA & Canada 1-800-424-9300 Rest of the world +1 703-741-5970

SECTION 2: Hazards identification

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



Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation.

· 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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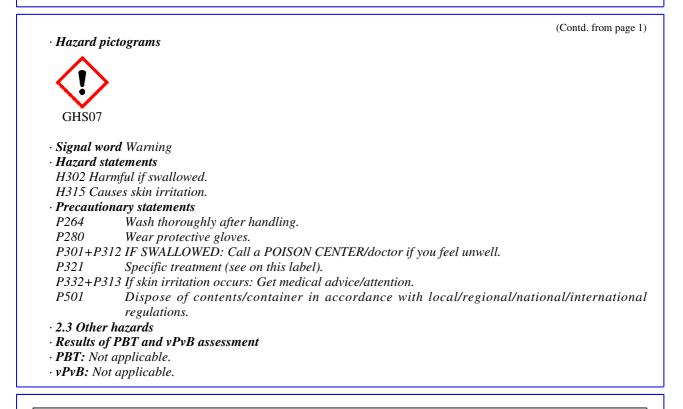
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Product name: Pseudooxynicotine Dihydrochloride (4-(Methylamino)-1-(3-pyridyl)butan-1one Dihydrochloride)



SECTION 3: Composition/information on ingredients

- · 3.1 Substances
- · CAS No. Description
- 66093-90-1 Pseudooxynicotine Dihydrochloride
- · Identification number(s) None
- EC number: 692-649-7
- · RTECS: -
- 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: Symptoms of poisoning may occur even after several hours; therefore medical observation for at least 48 hours after the accident is recommended.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:

Immediately wash with water and soap and rinse thoroughly.

- If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water.

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• After swallowing:

Rinse mouth. Do not induce vomiting. Seek medical treatment.

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

- 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.
- \cdot 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 Wear protective clothing.
- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up: Pick up mechanically.
- · 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 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.

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8.1 Control parameters	
	e monitoring at the workplace: Not required.
Additional information: Lists used were	
9.2 Euroguno controlo	
8.2 Exposure controls Appropriate engineering controls No furt	ther data: see item 7
Individual protection measures, such as	
General protective and hygienic measures	
Keep away from foodstuffs, beverages and	
Immediately remove all soiled and contam	
Wash hands before breaks and at the end	ő
Avoid contact with the skin.	oj work.
Avoid contact with the eyes and skin.	
Respiratory protection:	
Not required.	
Use suitable respiratory protective device	e in case of insufficient ventilation.
Hand protection	
	e and resistant to the product/ the substance/ the preparation.
	nsideration of the penetration times, rates of diffusion and the
degradation	5 1 5 55
	omply with the specifications of EC Directive 89/686/EEC and t
related standard EN374	
Material of gloves Butyl rubber, BR Penetration time of glove material	and and he do manufactures of the protective closes and has to
	found out by the manufacturer of the protective gloves and has to b
observed.	
Eye/face protection Safety glasses	
SECTION 9: Physical and chemic	cal properties
9.1 Information on basic physical and ch	hemical properties
General Information	terrent f. sportes
	Solid
Physical state	<i>Off white</i>
Physical state Colour: Odour:	Odourless
Colour: Odour:	Ödourless
Colour:	



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Boiling point or initial boiling point and boiling		
range	Not determined.	
Flammability	Not determined.	
Lower and upper explosion limit		
Lower:	Not determined.	
Upper:	Not determined.	
Flash point:	Not applicable.	
Auto-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	
pH	Not applicable.	
Viscosity:		
Kinematic viscosity	Not applicable.	
Dynamic:	Not applicable.	
Solubility		
water:	Not determined.	
Partition coefficient n-octanol/water (log value)	Not determined.	
Vapour pressure:	Not applicable.	
Density and/or relative density		
Density:	Not determined.	
Relative density	Not determined.	
Vapour density	Not applicable.	
9.2 Other information		
Appearance:		
Form:	Solid	
Important information on protection of health an	d	
environment, and on safety.		
Ignition temperature:	Not determined	
Explosive properties:	Not determined.	
Change in condition		
Evaporation rate	Not applicable.	
Information with regard to physical hazard classe	۲ ۲	
Explosives	Not applicable	
Flammable gases	Not applicable	
Aerosols	Not applicable	
Oxidising gases	Not applicable	
Gases under pressure	Not applicable	
Flammable liquids	Not applicable	
Flammable solids	Not applicable	
Self-reactive substances and mixtures	Not applicable	
	Not applicable	
Pyrophoric liquids		
Pyrophoric solids	Not applicable	
Self-heating substances and mixtures	Not applicable	
Substances and mixtures, which emit flammable	Not applicable	
gases in contact with water Oxidising liquids	Not applicable Not applicable	

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Product name: Pseudooxynicotine Dihydrochloride (4-(Methylamino)-1-(3-pyridyl)butan-1one Dihydrochloride)

- · Oxidising solids
- · Organic peroxides
- Corrosive to metals
- · Desensitised explosives

Not applicable Not applicable Not applicable Not applicable

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.

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Harmful if swallowed.
- · Skin corrosion/irritation Causes skin irritation.
- · 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.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties Substance is not listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- · 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.
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

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- 12.7 Other adverse effects • Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product to reach ground water, water course or sewage system.

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.

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

SECTION 14: Transport information		
· 14.1 UN number or ID number		
· ADR, IMDG, IATA · ADR, IMDG, IATA	Not applicable Not applicable	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA		
· Class	Not applicable	
· 14.4 Packing group · ADR, IMDG, IATA	Not applicable	
· 14.5 Environmental hazards:	Not applicable.	
· 14.6 Special precautions for user	Not applicable.	
· 14.7 Maritime transport in bulk according to IMO		
instruments	Not applicable.	
· UN "Model Regulation":	Not applicable	

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.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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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. LGC 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 relatif au transport international 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) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 **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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