according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

BUCHLER GmbH

Trade name: Dihydroquinidine Hydrochloride Date of issue: 24.09.2012

Revision date: 01.03.2022

Version: 8
Replaces version: 7

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

1.1. Product identifier

Product form : Substance

Substance name : Dihydroquinidine Hydrochloride

IUPAC name : (S)-[(2R,4S,5R)-5-Ethyl-1-azabicyclo[2.2.2]oct-2-yl] (6-methoxyquinolin-4-yl)methanol

hydrochloride

EC No : 216-024-1
CAS No : 1476-98-8
Formula : C20H26N2O2*CIH

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

1.2.1. Relevant identified uses

Main use category : Industrial use. Professional use

Use of the substance/mixture : Laboratory chemicals

Pharmaceuticals

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier

Buchler GmbH Harxbuetteler Straße 3 38110 Braunschweig - Germany

T +49 5307 9310

info@buchler-gmbh.com - www.buchler-gmbh.com

Safety data sheet: DLAC Dienstleistungsagentur Chemie GmbH, E-Mail: sds@dlac-gmbh.de

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number
Germany	Giftinformationszentrum-Nord	Robert-Koch Strasse 40	+49 551 19240
	Zentrum Pharmakologie und Toxikologie der Universität Göttingen	D-37075 Göttingen	(German/English)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4 H302 Sensitisation - Skin, Category 1A H317 Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Harmful if swallowed. May cause an allergic skin reaction.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) : H302 - Harmful if swallowed

H317 - May cause an allergic skin reaction

Precautionary statements (CLP) : P261 - Avoid breathing dust

P270 - Do not eat, drink or smoke when using this product P280 - Wear protective gloves, protective clothing, eye protection

P301+P312 - IF SWALLOWED: Call a POISON CENTER, doctor if you feel unwell

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

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

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2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance name : Dihydroquinidine Hydrochloride

EC No : 216-024-1 CAS No : 1476-98-8

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Dihydroquinidine Hydrochloride	(CAS No) 1476-98-8 (EC No) 216-024-1	>= 99.0	Acute Tox. 4 (Oral), H302 Skin Sens. 1A, H317

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Get medical advice/attention if you feel unwell. If possible show him this sheet. Failing this, show him the packaging or label. Never give anything by mouth to an unconscious person.

Place the affected person in the recovery position.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact : Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of

soap and water. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

First-aid measures after ingestion : Rinse mouth. Drink plenty of water as a precaution. Get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : The main risks of acute quinidine overdoses are cardiovascular disturbances (ventricular

tachycardia, atrial flutter and cardiac arrest) and hypotension. Signs of cinchonism: Neurotoxic effects (e.g. headache, tinnitus, visual disturbances, confusion), gastrointestinal disorders (e.g. nausea, vomiting, diarrhoea), exanthema and haematological disorders.

Symptoms/injuries after skin contact : May cause an allergic skin reaction.

Symptoms/injuries after ingestion : Harmful if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Making extinguishing agents environment-friendly. Water spray. Foam. Carbon dioxide. Dry

extinguishing powder.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of : Carbon oxides (CO, CO₂). Nitrogen oxides.

fire

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering

environment

Protection during firefighting : Use a self-contained breathing apparatus and also a protective suit (EN 469).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Provide adequate ventilation. Avoid contact with skin and eyes. Do

not breathe dust.

6.1.1. For non-emergency personnel

Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene.

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6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required. Wear suitable respiratory equipment in case of

insufficient ventilation.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if substance enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

Minimize generation of dust. Dispose of in accordance with relevant local regulations.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide local exhaust or general room ventilation. Avoid dust formation. Avoid contact with skin

and eyes. Keep container closed when not in use.

Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. When using do not

eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take off contaminated clothing and wash it

before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Store tightly closed in a dry and cool place. Keep out of direct

sunlight. Protect from moisture.

Storage temperature : This substance dose not require any special temperature storage conditions.

Prohibitions on mixed storage : Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Use adequate ventilation. Avoid dust formation.

Hand protection:

Wear suitable gloves (EN 374). Latex. Nitrile rubber. Butyl rubber. 0.4 mm. The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Chemical goggles or safety glasses (EN 166).

Skin and body protection:

Wear suitable protective clothing (EN 344).

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection is recommended. Dust production: dust mask with filter type P2.

Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid, Powder Colour : White Odour : Odourless Melting point/freezing point : 260 - 265 °C

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Boiling point or initial boiling point and boiling

range

: Not applicable

Flammability : No data available : No data available Lower and upper explosion limit Flash point : Not applicable Auto-ignition temperature : No data available : No data available Decomposition temperature : 6.0 - 7.0pН

Kinematic viscosity : Not applicable Solubility : Water: 20 g/l

Partition coefficient n-octanol/water (log value) : 3.43

: No data available Vapour pressure : No data available Density and/or relative density Relative vapour density : No data available Particle characteristics : No data available

Other information 9.2.

Molecular mass : 362.9 g/mol Bulk density : 700 - 800 kg/m³

Explosive properties : The substance is not explosive. Dust can form an explosive mixture with air.

Oxidising properties : The substance has no oxidising properties.

SECTION 10: Stability and reactivity

Reactivity

No dangerous reactions known under normal conditions of use.

Chemical stability

Stable under use and storage conditions as recommended in section 7 for a minimum of 5 years.

Possibility of hazardous reactions

None under normal use.

Conditions to avoid

Direct sunlight. High temperature. The degradation product quinicine is formed.

Incompatible materials

Oxidizing agents.

Hazardous decomposition products

In case of fire: Carbon monoxide. Carbon dioxide. Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

: Oral: Harmful if swallowed. Acute toxicity

Dihydroquinidine Hydrochloride (147	(6-98-8)	
LD50 oral rat	369 mg/kg	
Skin corrosion/irritation	: Not classified	
	Based on available data, the classification criteria are not met	
	pH: 6.0 - 7.0	
Serious eye damage/irritation	: Not classified	
	Based on available data, the classification criteria are not met	
	pH: 6.0 - 7.0	
Respiratory or skin sensitisation	: May cause an allergic skin reaction.	
Germ cell mutagenicity	: Not classified	
	Based on available data, the classification criteria are not met	
Carcinogenicity	: Not classified	
	Based on available data, the classification criteria are not met	
Reproductive toxicity	: Not classified	
	Based on available data, the classification criteria are not met	
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Specific target organ toxicity (single exposure) : Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity (repeated : Not classified

exposure)

Rased on available data, the class

Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Based on available data, the classification criteria are not met

11.2. Information on other hazards

Potential adverse human health effects and symptoms

: The main risks of acute quinidine overdoses are cardiovascular disturbances (ventricular tachycardia, atrial flutter and cardiac arrest) and hypotension. Signs of cinchonism: Neurotoxic effects (e.g. headache, tinnitus, visual disturbances, confusion), gastrointestinal disorders (e.g. nausea, vomiting, diarrhoea), exanthema and haematological disorders.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

12.2. Persistence and degradability

Dihydroquinidine Hydrochloride (1476-98-8)		
Persistence and degradability	Readily biodegradable.	
Biodegradation	69.2 % 28 d (OECD 301 B, Quinidine)	

12.3. Bioaccumulative potential

Dihydroquinidine Hydrochloride (1476-98-8)		
Bioconcentration factor (BCF REACH)	47.3	
Log Pow	3.43	
Bioaccumulative potential	Low bioaccumulation potential.	

12.4. Mobility in soil

Dihydroquinidine Hydrochloride (1476-98-8)	
Log Koc	2.4 - 4.06

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT- or vPvB criteria of REACH regulation, annex XIII.

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Dispose in a safe manner in accordance with local/national regulations.

Waste treatment methods : This material and its container must be disposed of as hazardous waste. Do not dispose of with

domestic waste. Do not empty into drains.

Waste disposal recommendations : Empty the packaging completely prior to disposal. When totally empty, containers are

recyclable like any other packing.

European List of Waste (LoW) code : 07 00 00 - WASTES FROM ORGANIC CHEMICAL PROCESSES

07 01 00 - wastes from the manufacture, formulation, supply and use (MFSU) of basic organic

chemicals

Waste code : The waste code number according to the Ordinance on the European Waste Catalogue (AVV) depends on the waste producer and can therefore vary for any given product. The waste code

number is therefore to be gleaned separately from each waste producer.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

14.1. UN number or ID number

UN-No. (ADR) : Not applicable
UN-No. (IMDG) : Not applicable
UN-No. (IATA) : Not applicable

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14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Dihydroquinidine Hydrochloride is not on the REACH Candidate List Dihydroquinidine Hydrochloride is not on the REACH Annex XIV List

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

For this substance a chemical safety assessment was not carried out.

SECTION 16: Other information

Data source : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006

Changes compared to earlier Versions : Section 8.2

Review : -

Abbreviations and acronyms:

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ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR European Agreement concerning the International Carriage of Dangerous Goods by Road BCF Biokonzentrationsfaktor DNEL Derived-No Effect Level EC50 Median effective concentration IATA International Air Transport Association IMDG International Maritime Dangerous Goods LC50 Median lethal concentration LD50 Median lethal dose NOEC No-Observed Effect Concentration NOAEL No-Observed Adverse Effect Level NOAEL No-Observed Adverse Effect Concentration LOAEL Lowest Observed Adverse Effect Level PBT Persistent Bioaccumulative Toxic PNEC Predicted No-Effect Concentration REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 RID Regulations concerning the International Carriage of Dangerous Goods by Rai STP Sewage treatment plant		
BCF Biokonzentrationsfaktor DNEL Derived-No Effect Level EC50 Median effective concentration IATA International Air Transport Association IMDG International Maritime Dangerous Goods LC50 Median lethal concentration LD50 Median lethal dose NOEC No-Observed Effect Concentration NOAEL No-Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration LOAEL Lowest Observed Adverse Effect Level PBT Persistent Bioaccumulative Toxic PNEC Predicted No-Effect Concentration REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 RID Regulations concerning the International Carriage of Dangerous Goods by Rai	ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
DNEL Derived-No Effect Level EC50 Median effective concentration IATA International Air Transport Association IMDG International Maritime Dangerous Goods LC50 Median lethal concentration LD50 Median lethal dose NOEC No-Observed Effect Concentration NOAEL No-Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration LOAEL Lowest Observed Adverse Effect Level PBT Persistent Bioaccumulative Toxic PNEC Predicted No-Effect Concentration REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 RID Regulations concerning the International Carriage of Dangerous Goods by Rai	ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
EC50 Median effective concentration IATA International Air Transport Association IMDG International Maritime Dangerous Goods LC50 Median lethal concentration LD50 Median lethal dose NOEC No-Observed Effect Concentration NOAEL No-Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration LD50 No-Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Level PBT Persistent Bioaccumulative Toxic PNEC Predicted No-Effect Concentration REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 RID Regulations concerning the International Carriage of Dangerous Goods by Rai	BCF	Biokonzentrationsfaktor
IATA International Air Transport Association IMDG International Maritime Dangerous Goods LC50 Median lethal concentration LD50 Median lethal dose NOEC No-Observed Effect Concentration NOAEL No-Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration LOAEL Lowest Observed Adverse Effect Level PBT Persistent Bioaccumulative Toxic PNEC Predicted No-Effect Concentration REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 RID Regulations concerning the International Carriage of Dangerous Goods by Rai	DNEL	Derived-No Effect Level
IMDG International Maritime Dangerous Goods LC50 Median lethal concentration LD50 Median lethal dose NOEC No-Observed Effect Concentration NOAEL No-Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration LOAEL Lowest Observed Adverse Effect Level PBT Persistent Bioaccumulative Toxic PNEC Predicted No-Effect Concentration REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 RID Regulations concerning the International Carriage of Dangerous Goods by Rai	EC50	Median effective concentration
LC50 Median lethal concentration LD50 Median lethal dose NOEC No-Observed Effect Concentration NOAEL No-Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration LOAEL Lowest Observed Adverse Effect Level PBT Persistent Bioaccumulative Toxic PNEC Predicted No-Effect Concentration REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 RID Regulations concerning the International Carriage of Dangerous Goods by Rai	IATA	International Air Transport Association
LD50 Median lethal dose NOEC No-Observed Effect Concentration NOAEL No-Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration LOAEL Lowest Observed Adverse Effect Level PBT Persistent Bioaccumulative Toxic PNEC Predicted No-Effect Concentration REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 RID Regulations concerning the International Carriage of Dangerous Goods by Rai	IMDG	International Maritime Dangerous Goods
NOEC No-Observed Effect Concentration NOAEL No-Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration LOAEL Lowest Observed Adverse Effect Level PBT Persistent Bioaccumulative Toxic PNEC Predicted No-Effect Concentration REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 RID Regulations concerning the International Carriage of Dangerous Goods by Rai	LC50	Median lethal concentration
NOAEL No-Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration LOAEL Lowest Observed Adverse Effect Level PBT Persistent Bioaccumulative Toxic PNEC Predicted No-Effect Concentration REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 RID Regulations concerning the International Carriage of Dangerous Goods by Rai	LD50	Median lethal dose
NOAEC No-Observed Adverse Effect Concentration LOAEL Lowest Observed Adverse Effect Level PBT Persistent Bioaccumulative Toxic PNEC Predicted No-Effect Concentration REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 RID Regulations concerning the International Carriage of Dangerous Goods by Rai	NOEC	No-Observed Effect Concentration
LOAEL Lowest Observed Adverse Effect Level PBT Persistent Bioaccumulative Toxic PNEC Predicted No-Effect Concentration REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 RID Regulations concerning the International Carriage of Dangerous Goods by Rai	NOAEL	No-Observed Adverse Effect Level
PBT Persistent Bioaccumulative Toxic PNEC Predicted No-Effect Concentration REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 RID Regulations concerning the International Carriage of Dangerous Goods by Rai	NOAEC	No-Observed Adverse Effect Concentration
PNEC Predicted No-Effect Concentration REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 RID Regulations concerning the International Carriage of Dangerous Goods by Rai	LOAEL	Lowest Observed Adverse Effect Level
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 RID Regulations concerning the International Carriage of Dangerous Goods by Rai	PBT	Persistent Bioaccumulative Toxic
RID Regulations concerning the International Carriage of Dangerous Goods by Rai	PNEC	Predicted No-Effect Concentration
	REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
STP Sewage treatment plant	RID	Regulations concerning the International Carriage of Dangerous Goods by Rai
an analy a action blank	STP	Sewage treatment plant
vPvB Very Persistent and Very Bioaccumulative	vPvB	Very Persistent and Very Bioaccumulative

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Skin Sens. 1A	Sensitisation - Skin, Category 1A
H302	Harmful if swallowed
H317	May cause an allergic skin reaction

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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