according to Regulation (EU) 2020/878

BUCHLER GmbH

Trade name: Quincoridine Date of issue: 26.03.2015

Revision date: 09.10.2020

Version: 5
Replaces version: 4

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

1.1. Product identifier

Product form : Substance

Substance name : Quincoridine (QCD)

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

EC no : 606-608-8 CAS No : 207129-36-0 Formula : C10H17NO

Synonyms : (2R,4S,5R)-2-Hydroxymethyl-5-vinyl-quinuclidine

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 : Raw materials for chemical syntheses

Laboratory chemicals
Chiral resolution

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
Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319
Specific target organ toxicity - Single exposure, Category 3, Respiratory tract irritation H335

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

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

H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation

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Precautionary statements (CLP) : P261 - Avoid breathing vapours, spray

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

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

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

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance name : Quincoridine (QCD)

EC No : 606-608-8 CAS No : 207129-36-0

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Quincoridine (QCD)	(CAS No) 207129-36-0 (EC No) 606-608-8	> 99.0	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

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. Call a

POISON CENTER or doctor/physician if you feel unwell.

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: 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. If eye irritation persists: Get medical advice/attention. Rinse mouth. Drink plenty of water as a precaution. Call a POISON CENTER or

First-aid measures after ingestion : Rinse mouth. Drink plenty of water as doctor/physician if you feel unwell.

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

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye irritation.

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).

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SECTION 6: Accidental release measures

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 vapour/aerosol.

6.1.1. For non-emergency personnel

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

6.1.2. For emergency responders

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

insufficient ventilation.

6.2. **Environmental precautions**

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

Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Wipe

up with absorbent material (for example cloth). Dispose of in accordance with relevant local

regulations.

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

Precautions for safe handling

Precautions for safe handling : Provide local exhaust or general room ventilation. Avoid breathing vapours, aerosols. 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

Conditions for safe storage, including any incompatibilities

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

sunlight. Store locked up.

Storage temperature

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

Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

Control parameters

No additional information available

8.2. **Exposure controls**

Appropriate engineering controls:

Use adequate ventilation.

Hand protection:

Wear suitable gloves (EN 374). Nitrile rubber. Butyl rubber. Chloroprene rubber. Fluoroelastomer (FKM). 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. Breathing apparatus with filter A.

Environmental exposure controls:

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Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : Colourless, clear
Odour : Odourless
Melting point/freezing point : No data available

Boiling point or initial boiling point and boiling

range

Flammability : No data available Lower and upper explosion limit : No data available

Flash point : 122.5 °C

Auto-ignition temperature : No data available
Decomposition temperature : No data available
pH : No data available
Kinematic viscosity : No data available

Solubility : Ethanol and Ether: Soluble

Partition coefficient n-octanol/water (log value) : 1.43

Vapour pressure : No data available

Density and/or relative density : 1.0475 g/cm³

Relative vapour density : No data available

Particle characteristics : Not applicable

9.2. Other information

Explosive properties : The substance is not explosive.

Oxidising properties : The substance has no oxidising properties.

· 267 °C

Molecular mass : 167.25 g/mol

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

Direct sunlight. High temperature.

10.5. Incompatible materials

Oxidizing agents.

10.6. 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

Acute toxicity : Oral: Harmful if swallowed.

Quilicondine (207 129-36-0)	Quincoridine (207129)-36-0)
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LD50 oral rat 1235.56 mg/kg (QSAR via T.E.S.T.)

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified

Based on available data, the classification criteria are not met

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Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

 Not classified Carcinogenicity

Based on available data, the classification criteria are not met

Reproductive toxicity Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure)

Specific target organ toxicity (repeated

exposure)

: Not classified Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Based on available data, the classification criteria are not met

Information on other hazards

Potential adverse human health effects and

symptoms

· Harmful if swallowed

: May cause respiratory irritation.

SECTION 12: Ecological information

12.1. **Toxicity**

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

Persistence and degradability

No additional information available

12.3. **Bioaccumulative potential**

Quincoridine (207129-36-0)	
Bioconcentration factor (BCF REACH)	4.08 l/kg
Log Pow	1.43

12.4. Mobility in soil

Quincoridine (207129-36-0)	
Log Koc	1.24 – 1.69

Results of PBT and vPvB assessment

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

Endocrine disrupting properties

No additional information available

Other adverse effects

No additional information available

SECTION 13: Disposal considerations

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

UN number or ID number 14.1.

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

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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

Quincoridine is not on the REACH Candidate List Quincoridine 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 : -

Review : 01.03.2022

Abbreviations and acronyms:

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

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BCF	Bioconcentration factor
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
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

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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