N-Benzyl-6´-Aminocinchoninium Chloride



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<b>SECTION 1: Identi</b>	ification of the subs	tance/mixtu	re and of the company/und	ertaking
1.1. Product iden	tifier			
Product form		: Substance		
Substance name		: N-Benzyl-6´-Aminocinchoninium Chloride		
IUPAC name		: (2R,4S,5R)-1-Benzyl-2-((S)-hydroxy(6-aminoquinolin-4-yl)methyl)-5-vinylquinuclidin-1-ium chloride		
EC no		: -		
CAS No		: -		
Formula		C26H30CIN3	C	
Synonyms	<ul> <li>Cinchonanium, 6'-amino-9-hydroxy-1-(phenylmethyl)-, chloride (1:1), (8β,9S)-; Cinchonanium 9-hydroxy-6`-amino-1-(phenylmethyl)-,chloride, (8β,9S); (8beta,9S)-1-Benzyl-9-hydroxy-6'-aminocinchonan-1-ium chloride; (8R,9S)-N-Benzyl-6'-aminocinchoninium chloride</li> </ul>			
1.2. Relevant ider	ntified uses of the substa	nce or mixture	and uses advised against	
1.2.1. Relevant ider	ntified uses			
Main use category		Industrial use	Professional use.	
Use of the substance/m	ixture	Phase transfe	er catalyst	
1.2.2. Uses advised	d against			
No additional informatio	n available			
1.3. Details of the	e supplier of the safety da	ita sheet		
Manufacturer/Supplier Buchler GmbH Harxbuetteler Straße 3 38110 Braunschweig - Germany T +49 5307 9310 - <u>www.buchler-gmbh.com</u> - <u>info@buchler-gmbh.com</u>				
,	Dienstleistungsagentur C	chemie GmbH, E	E-Mail: <u>sds@dlac-gmbh.de</u>	
1.4. Emergency to	elephone number			
Country Or	rganisation/Company		Address	Emergency number
GermanyBUCHLER GmbH (A member of the FAGUS Group)Harxbütteler Str. 3 38110 Braunschweig, Germany+49 1791437208 (German/English) (Mo-Fr 8:00-16:00)				
<b>SECTION 2: Hazar</b>	rds identification			
2.1. Classification	n of the substance or mix	ture		
	ng to Regulation (EC) No		.P1	
Acute toxicity (oral), Cat			H302	
Skin corrosion/irritation,	0,		H315	
Sensitisation - Skin, Cat	0,		H317	
Serious eye damage/eye irritation, Category 2 H319				
Specific target organ toxicity - Single exposure, Category 3, Respiratory tract irritation H335				

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. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation.

2.2. Label elements	
Labelling according to R	gulation (EC) No. 1272/2008 [CLP]
Hazard pictograms (CLP)	GHS07
Signal word (CLP)	: Warning
Hazard statements (CLP)	: H302 - Harmful if swallowed H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H335 - May cause respiratory irritation

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Precautionary statements (CLP)	: P261 - Avoid breathing dust
	P280 - Wear protective gloves, protective clothing, eye protection P312 - Call a POISON CENTER, doctor if you feel unwell
	P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
	P337+P313 - If eye irritation persists: Get medical advice/attention
	P403+P233 - Store in a well-ventilated place. Keep container tightly closed

### 2.3. Other hazards

Contains no substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients			
3.1. Substances			
Substance name : N-Benzyl-6'-Aminocinchoninium Chloride			
EC No	: •		
CAS No : -			
Name	Product identifier	%	Classification according to
			Regulation (EC) No. 1272/2008 [CLP]

#### 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	<ul> <li>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.</li> </ul>
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. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Drink water as a precaution. Call a POISON CENTER or doctor/physician if you feel unwell.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/injuries	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 inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: Harmful if swallowed.
4.3. Indication of any immediate medica	al attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Adapt extinguishing agent to suit the environment. 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 su	ibstance or mixture
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO <sub>2</sub> ). Nitrogen oxides.

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5.3. Advice for firefighters Firefighting instructions	: Use water spray or fog for cooling expo	sed containers. Prevent fire-fiel	ating water from entering
	environment.	sed containers. Frevent me-ngi	
Protection during firefighting	: Use a self-contained breathing apparat	us and also a protective suit (Ef	N 469).
<b>SECTION 6: Accidental release me</b>	easures		
6.1. Personal precautions, protective	equipment and emergency procedures		
General measures	: Stop leak if safe to do so. Provide adec not breathe dust.	quate ventilation. Avoid contact v	with skin and eyes. Do
6.1.1. For non-emergency personnel			
Emergency procedures	: Only qualified personnel equipped with	suitable protective equipment n	nay intervene.
6.1.2. For emergency responders			
Protective equipment	: Use personal protective equipment as insufficient ventilation.	required. Wear suitable respirate	ory equipment in case o
6.2. Environmental precautions			
Prevent entry to sewers and public waters. No	otify authorities if the substance enters sewers	or public waters.	
6.3. Methods and material for contain	ment and cleaning up		
Methods for cleaning up	: Take up mechanically (sweeping, shov Minimize generation of dust. Dispose o		
6.4. Reference to other sections			
Concerning personal protective equipment to	use, see section 8. Concerning disposal elimit	nation after cleaning, see sectio	n 13.
<b>SECTION 7: Handling and storage</b>			
7.1. Precautions for safe handling			
Precautions for safe handling	: Provide local exhaust or general room and eyes. Keep container closed when		t. Avoid contact with skir
Hygiene measures	: Handle in accordance with good indust eat, drink or smoke. Wash hands and c eating, drinking or smoking and when le before reuse.	other exposed areas with mild so	pap and water before
7.2. Conditions for safe storage, inclu	iding any incompatibilities		
Storage conditions	: Store in original container. Store tightly sunlight. Protect from moisture.	closed in a dry and cool place.	Keep out of direct
Prohibitions on mixed storage	: Keep away from food, drink and anima	l feedingstuffs.	
7.3. Specific end use(s)			
No additional information available			
SECTION 8: Exposure controls/pe	rsonal protection		
8.1. Control parameters			
No additional information available			
8.2. Exposure controls			
Appropriate engineering controls:			
Use adequate ventilation. Avoid dust formatio	n.		
Hand protection:			
	Butyl rubber. 0.4 mm. The exact break trough	time has to be found out by the	manufacturer of the

Wear suitable gloves (EN 374). 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:**

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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 c	hemical properties	
Physical state	: Solid, powder	
Colour	: White - beige	
Odour	: Odourless	
Melting point/freezing point	: No data available	
Boiling point or initial boiling point and boiling range	: No data available	
Flammability	: No data available	
Lower and upper explosion limit	: No data available	
Flash point	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
pH	: No data available	
Kinematic viscosity	: Not applicable	
Solubility	: No data available	
Partition coefficient n-octanol/water (log value)	: No data available	
Vapour pressure	: No data available	
Density and/or relative density	: No data available : No data available	
Relative vapour density Particle characteristics	: No data available	
9.2. Other information		
9.2.1. Information with regard to physical haz		
Explosive properties	: The substance is not explosive.	
Oxidising properties	: The substance has no oxidising properties.	
9.2.2. Other safety characteristics		
Molecular mass	: 436 g/mol	
SECTION 10: Stability and reactivity		
10.1. Reactivity		
No dangerous reactions known under normal co	nditions of use.	
10.2. Chemical stability		
Stable under use and storage conditions as reco	ommended 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 dioxid	e. Nitrogen oxides.	
<b>SECTION 11: Toxicological informat</b>	ion	
11.1. Information on hazard classes as de	efined in Regulation (EC) No 1272/2008	
Acute toxicity	: Oral: Harmful if swallowed.	
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LD50 oral	504.54 mg/kg (QSAR via T.E.S.T.)	

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Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
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
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated	: Not classified
exposure)	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	
11.2.1. Endocrine disrupting properties	
Endocrine disruption for human health	: The substance has no endocrine disrupting properties.
11.2.2. Other information	
Potential adverse human health effects and symptoms	<ul> <li>Signs of cinchonism: Neurotoxic effects (e.g. headache, tinnitus, visual disturbances, confusion), gastrointestinal disorders (e.g. nausea, vomiting, diarrhoea), exanthema and haematological disorders.</li> </ul>
SECTION 12: Ecological information	n
12.1. Toxicity	
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessme	ent
This substance does not meet the PBT- or vPvE	3 criteria of REACH regulation, annex XIII.
12.6. Endocrine disrupting properties	
Endocrine disruption for the environment	: The substance has no endocrine disrupting properties.
12.7. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideratio	ns
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	<ul> <li>Empty the packaging completely prior to disposal. When totally empty, containers are recyclable like any other packing.</li> </ul>
European List of Waste (LoW) code	<ul> <li>O7 00 00 - WASTES FROM ORGANIC CHEMICAL PROCESSES</li> <li>O7 01 00 - wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals</li> </ul>
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	

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14.1. UN number or ID number			
UN-No. (ADR)	: Not applicable		
UN-No. (IMDG)	: Not applicable		
UN-No. (IATA)	: Not applicable		
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		
ΙΑΤΑ			
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 see			
- Transport by sea Not applicable			
- Air transport			
Not applicable			
14.7. Maritime transport in bulk accordi	ing to IMO instruments		
Not applicable			
<b>SECTION 15: Regulatory information</b>	on		
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture			
15.1.1. EU-Regulations			
REACH Annex XIV (Authorisation List)			
Contains no substance(s) listed on REACH Annex XIV (Authorisation List).			
REACH Candidate List (SVHC)			
Contains no substance(s) listed on the REACH Candidate List.			
PIC Regulation (Prior Informed Consent)			
Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals).			

## POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants).

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### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer).

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors).

#### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances).

### 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	r 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 ea	arlier Versions	: Section 1.1 + 1.4 Section 2.3 Section 11.2 Section 12.6 Section 15.1.1
Abbreviations and acrony	/ms:	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	

ADR	European Agreement concerning the International Camage of Dangerous Goods by Road
BCF	Bioconcentration factor
DNEL	Derived-No Effect Level
EC50	The effective concentration of substance that causes 50 % of the maximum response (Median Effective Concentration)
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Lethal Concentration to 50 % of a test population (Median Lethal Concentration)
LD50	Lethal Dose to 50 % of a test population (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	
Skin Sens. 1A	Sensitisation - Skin, Category 1A	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H302	Harmful if swallowed	
H315	Causes skin irritation	
H317	May cause an allergic skin reaction	
H319	Causes serious eye irritation	
H335	May cause respiratory irritation	

SDS EU (REACH Annex II)

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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.