Trade name:	6'-Aminocin	ichonidine	Date of issue: Revision date: Version: Replaces version:	14.08.2020 - 1 -
		bstance/mixture and of the co	mpany/undertaking	
1.1. Product i Product form Substance name Chemical name EC No	laentiner	: Substance : 6'-Aminocinchonidine : (R)-[(2S,4S,5R)-5-Ethenyl-1-azabio : -	yclo[2.2.2]oct-2-yl](6-aminoquin	olin-4-yl)methanol
CAS No Formula		: 2143936-34-7 : C19H23N3O		
1.2. Relevant	identified uses of the sul	bstance or mixture and uses advised a	gainst	
Main use category Use of the substanc		: Industrial use. Professional use. : Chiral resolution		
1.2.2. Uses adv No additional inform	vised against			
	f the supplier of the safet	v data sheet		
Manufacturer/Sup				
Buchler GmbH Harxbuetteler Straß 38110 Braunschwei F +49 5307 9310 www.buchler-gmbh. nfo@buchler-gmbh Safety data sheet: E	ig - Germany <u>.com</u> 1.com	ur Chemie GmbH, E-Mail: <u>sds@dlac-qm</u>	sh de	
			<u>51.40</u>	
	cy telephone number		1	1
Country	Organisation/Company		Address	Emergency number
		Nord	1	Emergency number +49 551 19240 (German/English)
Country Germany	Organisation/Company Giftinformationszentrum- Zentrum Pharmakologie und Toxi	Nord	Address Robert-Koch Strasse 40	+49 551 19240
Country Germany SECTION 2: Ha	Organisation/Company Giftinformationszentrum-	Nord Ikologie der Universität Gottingen	Address Robert-Koch Strasse 40	+49 551 19240
Country Germany SECTION 2: Ha 2.1. Classification Classification accord Acute toxicity (oral), Sensitisation - Skin,	Organisation/Company Giftinformationszentrum- Zentrum Pharmakologie und Toxi azards identification	Nord ikologie der Universität Gottingen mixture	Address Robert-Koch Strasse 40	+49 551 19240
Country Germany SECTION 2: Ha 2.1. Classification accord Acute toxicity (oral), Sensitisation - Skin, Full text of H statem Adverse physicocol	Organisation/Company Giftinformationszentrum- Zentrum Pharmakologie und Tox azards identification ation of the substance or ording to Regulation (EC) , Category 3 H301 , Category 1A H317	Nord ikologie der Universität Gottingen mixture No. 1272/2008 [CLP]	Address Robert-Koch Strasse 40	+49 551 19240
Country Germany SECTION 2: Ha 2.1. Classification accord Acute toxicity (oral), Sensitisation - Skin, Full text of H statem Adverse physicocol Toxic if swallowed.	Organisation/Company Giftinformationszentrum- Zentrum Pharmakologie und Tox azards identification ation of the substance or ording to Regulation (EC) , Category 3 H301 , Category 1A H317 nents : see section 16 hemical, human health ar May cause an allergic skin	Nord ikologie der Universität Gottingen mixture No. 1272/2008 [CLP]	Address Robert-Koch Strasse 40	+49 551 19240
Country Germany SECTION 2: Ha 2.1. Classification accord Acute toxicity (oral), Sensitisation - Skin, Full text of H statem Adverse physicocol Toxic if swallowed. I 2.2. Label ele	Organisation/Company Giftinformationszentrum- Zentrum Pharmakologie und Toxi azards identification ation of the substance or ording to Regulation (EC) , Category 3 H301 , Category 1A H317 nents : see section 16 hemical, human health ar May cause an allergic skin ements ing to Regulation (EC) No.	Nord ikologie der Universität Gottingen mixture No. 1272/2008 [CLP] nd environmental effects reaction.	Address Robert-Koch Strasse 40	+49 551 19240
Country Germany SECTION 2: Ha 2.1. Classification accor Acute toxicity (oral), Sensitisation - Skin, Full text of H statem Adverse physicocol Toxic if swallowed. I 2.2. Label ele Labelling accordin	Organisation/Company Giftinformationszentrum- Zentrum Pharmakologie und Tox azards identification ation of the substance or ording to Regulation (EC) , Category 3 H301 , Category 1A H317 nents : see section 16 hemical, human health ar May cause an allergic skin ments ing to Regulation (EC) No. s (CLP)	Nord ikologie der Universität Gottingen mixture No. 1272/2008 [CLP] nd environmental effects reaction. 1272/2008 [CLP]	Address Robert-Koch Strasse 40 D-37075 Göttingen	+49 551 19240
Country Germany SECTION 2: Ha 2.1. Classification accor Acute toxicity (oral), Sensitisation - Skin, Full text of H statem Adverse physicocl Toxic if swallowed. I 2.2. Label ele Labelling accordin Hazard pictograms	Organisation/Company Giftinformationszentrum- Zentrum Pharmakologie und Toxi azards identification ation of the substance or ording to Regulation (EC) , Category 3 H301 , Category 1A H317 hents : see section 16 hemical, human health ar May cause an allergic skin ments ing to Regulation (EC) No. s (CLP)	Nord ikologie der Universität Gottingen mixture No. 1272/2008 [CLP] nd environmental effects reaction. 1272/2008 [CLP] GHS06 : Danger	Address Robert-Koch Strasse 40 D-37075 Göttingen	+49 551 19240 (German/English)

Trade name:	6'-Ami	nocinchonidine		Date of issue: Revision date: Version: Replaces version:	14.08.2020 - 1 -	
2.3. Other hazards						
	Tavallable					
	osition/info	rmation on ingredients				
3.1. Substances Substance name		: 6'-Aminocinchonidine				
EC No						
CAS No		2143936-34-7				
Name		Product identifier	%	Classification a	ccording to No. 1272/2008 [CLP]	
6'-Aminocinchonidine		(CAS No) 2143936-34-7	≤ 100	Acute Tox. 3 (Oral) Skin Sens. 1A. H31	, H301	
Full text of H-statements	s: see section 16	i	1			
3.2. Mixtures						
Not applicable						
SECTION 4: First a	aid mea <u>sure</u>	S				
	f first aid meas					
First-aid measures gene	ral	: Get medical advice/atter show him the packaging Place the affected perso	or label. Never give a	anything by mouth to an		
First-aid measures after	inhalation	: Remove victim to fresh a	air and keep at rest in	a position comfortable for	or breathing.	
First-aid measures after	skin contact	: Take off immediately all soap and water. If skin i		g and wash it before reus s: Get medical advice/att		
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 plen	ty of water as a preca	ution. Get medical advic	e/attention immediately.	
4.2. Most importa	nt symptoms a	nd effects, both acute and delayed	t			
Symptoms/injuries		: Signs of cinchonism: Ne confusion), gastrointesti haematological disorder	nal disorders (e.g. na	headache, tinnitus, visua usea, vomiting, diarrhoea		
Symptoms/injuries after	skin contact	: May cause an allergic sl	kin reaction.			
Symptoms/injuries after	ingestion	: Toxic if swallowed.				
4.3. Indication of a Treat symptomatically.	any immediate	medical attention and special trea	itment needed			
SECTION 5: Firefig	ghting meas	ures				
5.1. Extinguishing	g media					
Suitable extinguishing m	edia	: Making extinguishing ag extinguishing powder.		ndly. Water spray. Foam	. Carbon dioxide. Dry	
Unsuitable extinguishing	media	: Do not use a heavy wate	er stream.			
-	-	the substance or mixture				
Hazardous decomposition fire	on products in ca	ase of : Carbon oxides (CO, CO	2). Nitrogen oxides.			
5.3. Advice for fire	efighters					
Firefighting instructions		: Use water spray or fog f environment.	or cooling exposed co	ontainers. Prevent fire-fig	hting water from entering	
Protection during firefigh	ting	: Use a self-contained bre	eathing apparatus and	l also a protective suit (E	N 469).	
SECTION 6: Accid	ental releas	e measures				
6.1. Personal prec	cautions, prote	ctive equipment and emergency p	rocedures			
General measures		: Stop leak if safe to do so not breathe dust.	o. Provide adequate v	entilation. Avoid contact	with skin and eyes. Do	
6.1.1. For non-emer Emergency procedures	rgency personr	el : Only qualified personnel	l equipped with suitab	le protective equipment r	nay intervene.	
14.08.2020		EN (English)			2/8	

Trade name:	6'-Aminocinc	honidine	Date of issue: Revision date: Version: Replaces version:	14.08.2020 - 1 -
6.1.2. For emerg	ency responders			
Protective equipment		: Use personal protective equipmen insufficient ventilation.	t as required. Wear suitable respirat	ory equipment in case c
6.2. Environme	ental precautions			
Prevent entry to sewe	ers and public waters. Notify	authorities if substance enters sewer	s or public waters.	
6.3. Methods a	ind material for containme	nt and cleaning up		
Methods for cleaning	up		shovelling) and collect in suitable co ose of in accordance with relevant lo	
	to other sections			10
		e, see section 8. Concerning disposal	elimination after cleaning, see section	n 13.
	ndling and storage			
	ns for safe handling	_		
Precautions for safe l	handling	 Provide local exhaust or general ro and eyes. Keep container closed v 		h. Avoid contact with ski
Hygiene measures		: Handle in accordance with good in eat, drink or smoke. Wash hands a	idustrial hygiene and safety procedu and other exposed areas with mild s nen leaving work. Take off contamin	oap and water before
7.2. Conditions	s for safe storage, includi	ng any incompatibilities		
Storage conditions		: Store in original container. Store the sunlight. Protect from moisture.	ghtly closed in a dry and cool place.	Keep out of direct
Storage temperature		: This substance does not require a		litions.
Prohibitions on mixed	5	: Keep away from food, drink and a	nimal feedingstuffs.	
7.3. Specific en No additional informa				
	oosure controls/pers	onal protection		
8.1. Control pa No additional informa				
8.2. Exposure				
Appropriate engine				
	ition. Avoid dust formation.			
	luon. Avoid dust ionnation.			
Hand protection:				
0	(EN 374). Latex. Nitrile rub and has to be observed.	ber. Butyl rubber. 0.4 mm. The exact b	preak trough time has to be found ou	t by the manufacturer o
Eye protection:				
Chemical goggles or	safety glasses (EN 166).			
Skin and body prote	ection:			
Wear suitable protect	tive clothing (EN 344).			
Respiratory protect	ion:			
Where exposure thro	ugh inhalation may occur fro	om use, respiratory protection is recon	nmended. Dust production: dust mas	sk with filter type P2.
Environmental expo	osure controls:			
Avoid release to the	environment.			
SECTION 9: Phy	/sical and chemical p	properties		
9.1. Informatio	n on basic physical and c			
		: Solid		
Physical state Colour		: White		

BUCHLER GmbH

Trade name: 6'-Amino	cinchonidine	Date of issue: Revision date: Version: Replaces version:	14.08.2020 - 1 -
Boiling point or initial boiling point and boilin	g : No data available		
range	. No doto ovoilable		
Flammability	: No data available : Not applicable		
∟ower and upper explosion limit Flash point	: Not applicable		
Auto-ignition temperature	: Not applicable		
Decomposition temperature	: No data available		
рН	: No data available		
Kinematic viscosity	: Not applicable		
Solubility	: No data available		
Partition coefficient n-octanol/water (log val	ue) : 2.3		
/apour pressure	No data available		
Density and/or relative density	: No data available		
Relative vapour density	: Not applicable		
Particle characteristics	: No data available		
9.2. Other information			
Explosive properties	: The substance is not explosive	e. Dust can form an explosive mixture w	ith air.
Oxidising properties	: The substance has no oxidisin	g properties.	
No dangerous reactions known under norm 10.2. Chemical stability Stable under use and storage conditions as 10.3. Possibility of hazardous reaction None under normal use. 10.4. Conditions to avoid Direct sunlight. High temperature. The degr 10.5. Incompatible materials Dividising agents. 10.6. Hazardous decomposition proof n case of fire: Carbon monoxide. Carbon d SECTION 11: Toxicological infor	recommended in section 7 for a minim ons adation product quinicine is formed. ducts ioxide. Nitrogen oxides.	um of 5 years.	
	as defined in Regulation (EC) No 127	2/2008	
Acute toxicity	: Oral: toxic if swallowed.		
6'-Aminocinchonidine (2143936-34-7)			
LD50 oral rat	289.77 mg/kg (QSAR via T.E.S	S.T.)	
LD50 oral rat	350.82 mg/kg (Quinine)		
Skin corrosion/irritation	: Not classified		
	Based on available data, the c	lassification criteria are not met	
Serious eye damage/irritation	: Not classified		
	Based on available data, the c	lassification criteria are not met	
Respiratory or skin sensitisation	: May cause an allergic skin rea	ction.	
Germ cell mutagenicity	: Not classified		
Carcinogenicity	Not classified	lassification criteria are not met lassification criteria are not met	
Reproductive toxicity	Not classified	lassification criteria are not met	
Specific target organ toxicity (single exposu	re) Not classified		

Based on available data, the classification criteria are not met

Trade name:	6'-Aminocino	chonidine	Date of issue: Revision date: Version: Replaces version:	14.08.2020 - 1 -
Specific target organ toxi exposure)	city (repeated	: Not classified		
Aspiration hazard		Based on available data, the class Not classified		
11.2. Information o	n other hazards	Based on available data, the class		
Potential adverse human symptoms			ffects (e.g. headache, tinnitus, visua ers (e.g. nausea, vomiting, diarrhoea	
SECTION 12: Ecolo	ogical information	n		
12.1. Toxicity				
Acute aquatic toxicity		: Not classified		
Chronic aquatic toxicity		: Not classified		
6'-Aminocinchonidine	e (2143936-34-7)	-		
EC50 daphnia		68.09 mg/l 48 h, Daphnia magna (·	
ErC50 algae		11.13 mg/l 72 h, Dunaliella salina ((Quinine)	
12.2. Persistence a	nd degradability			
6'-Aminocinchonidine	e (2143936-34-7)			
Persistence and degrad	dability	Readily biodegradable.		
Biodegradation		81.2 % 28 d (OECD 301 B) (Cinch	onidine)	
12.3. Bioaccumulat	ive potential			
6'-Aminocinchonidine	e (2143936-34-7)			
Bioconcentration factor	(BCF REACH)	8.45 l/kg		
Log Pow		2.3		
12.4. Mobility in so	il			
6'-Aminocinchonidine	e (2143936-34-7)			
Log Koc		1.7 – 4.4		
12.5. Results of PB	T and vPvB assessm	ent		
This substance does not	meet the PBT- or vPvB	3 criteria of REACH regulation, annex X	(11).	
12.6. Endocrine dis	rupting properties			
No additional information	available			
12.7. Other adverse	effects			
No additional information	available			
SECTION 13: Disp	osal consideratio	ns		
13.1. Waste treatme	ent methods			
Regional legislation (was	te)	: Dispose in a safe manner in accor	dance with local/national regulations	S.
Waste treatment method	S	: This material and its container must domestic waste. Do not empty into		te. Do not dispose of with
Waste disposal recomme	endations	: Empty the packaging completely p recyclable like any other packing.	rior to disposal. When totally empty,	containers are
European List of Waste (LoW) code	: 07 00 00 - WASTES FROM ORGA	ANIC CHEMICAL PROCESSES acture, formulation, supply and use (MFSU) of basic organic
Waste code		depends on the waste producer an	g to the Ordinance on the European nd can therefore vary for any given p separately from each waste produce	roduct. The waste code
SECTION 14: Trans	sport infor <u>mation</u>			
In accordance with ADR				

14.1. UN number	or ID number	
UN-No. (ADR)	: 1	544
UN-No. (IMDG)	: 1	544
UN-No. (IATA)	: 1	544

Trade name: 6'	-Aminocinchonidine	Date of issue: Revision date: Version: Replaces version:	14.08.2020 - 1 -
14.2. UN proper shipping na	me		
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Transport document description (A Transport document description (IA	: ALKALOIDS, SOLID, N.C : ALKALOIDS, SOLID, N.C : Alkaloids, solid, n.o.s. (6' DR) : UN 1544 ALKALOIDS, S /IDG) : UN 1544 ALKALOIDS, S	D.S. (6'-Aminocinchonidine) D.S. (6'-Aminocinchonidine) '-Aminocinchonidine) OLID, N.O.S. (6'-Aminocinchonidine), 6.1, III, OLID, N.O.S. (6'-Aminocinchonidine), 6.1, III , n.o.s. (6'-Aminocinchonidine), 6.1, III	(E)
14.3. Transport hazard class	(es)		
ADR Transport hazard class(es) (ADR) Danger labels (ADR)	: 6.1 : 6.1		
	6		
IMDG			
Transport hazard class(es) (IMDG)	: 6.1		
Danger labels (IMDG)	: 6.1		
	6		
ΙΑΤΑ	·		
Transport hazard class(es) (IATA) Hazard labels (IATA)	: 6.1 : 6.1		
	6		
14.4. Packing group			
Packing group (ADR)	: 111		
Packing group (IMDG)	: 111		
Packing group (IATA)	: 111		
14.5. Environmental hazards			
Dangerous for the environment	: No		
Marine pollutant Other information	: No : No supplementary inform		
14.6. Special precautions for			
	u301		
- Overland transport			
Classification code (ADR)	: T2 - 43 274		
Special provisions (ADR) Limited quantities (ADR)	: 43, 274 : 5kg		
Excepted quantities (ADR)	: E1		
Packing instructions (ADR)	: P002, IBC08, LP02, R00	1	
Special packing provisions (ADR)	: B3		
Mixed packing provisions (ADR)	: MP10		
Portable tank and bulk container in (ADR)	structions : T1		
14.08.2020	EN (English)		6

Safety Data Sheet

according to Regulation (EU) 2020/878

BUCHLER GmbH

Trade name:	6'-Aminocinc	honidine	Date of issue: Revision date: Version: Replaces version:	14.08.2020 - 1 -
Portable tank and bulk conta provisions (ADR)	ainer special	: TP33		
Tank code (ADR)		: SGAH, L4BH		
Tank special provisions (AD	R)	: TU15, TE19		
Vehicle for tank carriage	,	: AT		
Transport category (ADR)		: 2		
Special provisions for carria	ge - Bulk (ADR)	: VC1, VC2, AP7		
Special provisions for carria unloading and handling (AD	ge - Loading,	: CV13, CV28		
Special provisions for carriad (ADR)		: S9		
Hazard identification numbe	r (Kemler No.)	: 60		
Orange plates		60 1544		
Tunnel restriction code (ADF	र)	: E		
- Transport by sea				
Special provisions (IMDG)		: 43, 223, 274		
Limited quantities (IMDG)		: 5 kg		
Excepted quantities (IMDG)		: E1		
Packing instructions (IMDG)		: P002, LP02		
IBC packing instructions (IM	DG)	: IBC08		
IBC special provisions (IMD	G)	: B3		
Tank instructions (IMDG)		: T1		
Tank special provisions (IMI	DG)	: TP33		
EmS-No. (Fire)		: F-A		
EmS-No. (Spillage)		: S-A		
Stowage category (IMDG)		: A		
- Air transport				
PCA Excepted quantities (IA	TA)	: E1		
PCA Limited quantities (IAT	۹)	: Y645		
PCA limited quantity max ne	t quantity (IATA)	: 10kg		
PCA packing instructions (IA	NTA)	: 670		
PCA max net quantity (IATA)	: 100kg		
CAO packing instructions (IA		: 677		
CAO max net quantity (IATA	()	: 200kg		
Special provisions (IATA)		: A3, A5, A6, A801		
ERG code (IATA)		: 6L		

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

6'-Aminocinchonidine is not on the REACH Candidate List

6'-Aminocinchonidine 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

EN (English)

BUCHLER GmbH

Trade name:	6'-Aminocinchonidine	Date of issue:	14.08.2020	
		Revision date:	-	
		Version:	1	
		Replaces version:	-	
Data source	COUNCIL of 16 December 2	2/2008 OF THE EUROPEAN PARLIAMEN 008 on classification, labelling and packa ealing Directives 67/548/EEC and 1999/45 06	ging of substances and	
Changes compared to	earlier Versions : -			
Abbreviations and acro	pnyms:			
ADN	European Agreement concerning the International Carri	age of Dangerous Goods by Inland Water	ways	
ADR	European Agreement concerning the International Carri	age of Dangerous Goods by Road	-	
BCF	Bioconcentration factor			
DNEL	Derived-No Effect Level			
EC50	Median effective concentration			
ΙΑΤΑ	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	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	l-statements:			
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3			
	-, (,,,,,,			

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Skin Sens. 1A	Sensitisation - Skin, Category 1A
H301	Toxic 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.