Trade name:

N-Benzylcinchonidinium Chloride



Date of issue:	28.09.2022
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Version:	1
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SECTION 1:	Identification of the s	ubstance/mixture and of the co	mpany/undertaking		
1.1. Produ					
Product form		: Substance			
Substance name		: N-Benzylcinchonidinium Chloride			
IUPAC name		: (2S,4S,5R)-1-Benzyl-2-((R)-hydrox	y(quinolin-4-yl)methyl)-5-vinylq	uinuclidin-1-ium chloride	
EC no		: 273-938-3			
CAS No		: 69257-04-1			
Formula		: C26H29CIN2O			
Synonyms		: (8S,9R)-N-Benzylcinchonidinium-cl (8alpha,9R)-1-benzyl-9-hydroxycin			
1.2. Releva	int identified uses of the s	ubstance or mixture and uses advised a	igainst		
1.2.1. Releva	int identified uses				
Main use catego	ry	: Industrial use. Professional use.			
Jse of the substance/mixture : Phase transfer catalyst					
1.2.2. Uses a	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: <u>sds@dlac-gmbh.de</u>					
1.4. Emergency telephone number					
Country	Organisation/Compan	ıу	Address	Emergency number	
Germany	Giftinformationszentrun Zentrum Pharmakologie und To	n -Nord oxikologie der Universität Göttingen	Robert-Koch Strasse 40 D-37075 Göttingen	+49 551 19240 (German/English)	

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2.1.
         Classification of the substance or mixture
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Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 2	H315
Sensitisation - Skin, Category 1A	H317
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. May cause an allergic skin reaction. 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 H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation



Trade name:	Trade name: N-Benzylcinchonidinium Chloride		28.09.2022 - 1 -
	H335 - May cause respiratory irritation		
Precautionary statements (C	P) : P261 - Avoid breathing dust P280 - Wear protective gloves, protective P312 - Call a POISON CENTER, doctor P333+P313 - If skin irritation or rash occ P337+P313 - If eye irritation persists: Ge P403+P233 - Store in a well-ventilated p	if you feel unwell urs: Get medical advice/attentio et medical advice/attention	
2.3. Other hazards			
No additional information ava	ilable		
SECTION 3: Composi	tion/information on ingredients		
3.1. Substances			

J.I. Substances			
Substance name	: N-Benzylcinchonidinium Chloride		
EC No	: 273-938-3		
CAS No	: 69257-04-1		
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
N-Benzylcinchonidinium Chloride	(CAS No) 69257-04-1 (EC No) 273-938-3	≤ 100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1A, H317 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 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	ects, 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 medic	al 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.

Special hazards arising from the substance or mixture 5.2.

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

according to Regulation (EU) 2020/878			A Member of the FAGUS Gro		
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5.3. Advice for fire	fightors				
Firefighting instructions	ngmers	: Use water spray or fog for cooling e	whosed containers. Prevent fire-fig	hting water from entering	
		environment.	xposed containers. I revent me-ng	nung water nom entering	
Protection during firefighti	ng	: Use a self-contained breathing appa	aratus and also a protective suit (E	N 469).	
SECTION 6: Accide	ntal release meas	ures			
		ipment and emergency procedures			
General measures		: Stop leak if safe to do so. Provide a not breathe dust.	dequate ventilation. Avoid contact	with skin and eyes. Do	
6.1.1. For non-emerg	jency personnel				
Emergency procedures		: Only qualified personnel equipped v	with suitable protective equipment	may intervene.	
6.1.2. For emergency	y responders				
Protective equipment		: Use personal protective equipment insufficient ventilation.	as required. Wear suitable respirat	ory equipment in case of	
6.2. Environmental	precautions				
Prevent entry to sewers a	nd public waters. Notify	authorities if the substance enters sew	ers or public waters.		
	naterial for containme	• •			
Methods for cleaning up		: Take up mechanically (sweeping, si Minimize generation of dust. Dispos			
6.4. Reference to o					
Concerning personal prot	ective equipment to use	, see section 8. Concerning disposal e	limination after cleaning, see section	on 13.	
SECTION 7: Handli	ng and storage				
	r safe handling				
Precautions for safe hand	lling	: Provide local exhaust or general roo and eyes. Keep container closed w	•	t. Avoid contact with skin	
Hygiene measures		 Handle in accordance with good inc eat, drink or smoke. Wash hands ar eating, drinking or smoking and who before reuse. 	nd other exposed areas with mild s	oap and water before	
7.2. Conditions for	safe storage, includin	g any incompatibilities			
Storage conditions		: Store in original container. Store tig sunlight. Protect from moisture.		Keep out of direct	
Prohibitions on mixed sto	rage	: Keep away from food, drink and ani	mal feedingstuffs.		
7.3. Specific end u No additional information	.,				
SECTION 8: Expos	ure co <u>ntrols/perso</u>	onal protection			
8.1. Control param	•				
No additional information					
8.2. Exposure conf	rols				
Appropriate engineering	-				
Use adequate ventilation.	Avoid dust formation.				
Hand protection:					
Wear suitable gloves (EN protective gloves and has		yl rubber. 0.4 mm. The exact break tro	ugh time has to be found out by th	e manufacturer of the	
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 o				
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			
рН	: 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			
Relative vapour density	: No data available			
Particle characteristics	: No data available			
9.2. Other information				
Explosive properties	: The substance is not explosive.			
Oxidising properties	: The substance has no oxidising properties.			
Molecular mass	: 421 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 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 dioxide. Nitrogen oxides.				
SECTION 11: Toxicological information				
	efined in Regulation (EC) No 1272/2008			
Acute toxicity	: Oral: Harmful if swallowed.			
N-Benzylcinchonidinium Chloride (69257-04				
LD50 oral	546.86 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	: May cause an allergic skin reaction.			
Respiratory of skin sensitisation	. way cause an allergic skill reaction.			

EN (English)

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Germ cell mutagenicity		: Not classified Based on available data, the class	ification criteria are not met	
Carcinogenicity		: Not classified Based on available data, the class	ification criteria are not met	
Reproductive toxicity		: Not classified Based on available data, the class	ification criteria are not met	
Specific target organ toxicil Specific target organ toxicil exposure)	,	 May cause respiratory irritation. Not classified Based on available data, the class 	ification criteria are not met	
Aspiration hazard		: Not classified Based on available data, the class	ification criteria are not met	
11.2. Information on	other hazards			
Potential adverse human h symptoms	ealth effects and		ffects (e.g. headache, tinnitus, visua ers (e.g. nausea, vomiting, diarrhoea	
SECTION 12: Ecolog	gical information			
12.1. Toxicity				
Acute aquatic toxicity		: Not classified		
Chronic aquatic toxicity		: Not classified		
12.2. Persistence and	l degradability			
No additional information a	vailable			
12.3. Bioaccumulativ				
No additional information a	vailable			
12.4. Mobility in soil				
No additional information a	vailable			
12.5. Results of PBT	and vPvB assessmen	t		
This substance does not m	eet the PBT- or vPvB o	riteria of REACH regulation, annex X	111.	
12.6. Endocrine disru	pting properties			
No additional information a	vailable			
12.7. Other adverse e	ffects			
No additional information a	vailable			
SECTION 13: Dispos	sal consideration	S		
13.1. Waste treatmen				
Regional legislation (waste)	: Dispose in a safe manner in accor	-	
Waste treatment methods		: This material and its container mus domestic waste. Do not empty into	drains.	
Waste disposal recommend	dations	: Empty the packaging completely p recyclable like any other packing.	rior to disposal. When totally empty,	containers are
European List of Waste (Lo	oW) code	: 07 00 00 - WASTES FROM ORGA 07 01 00 - wastes from the manufa chemicals	ANIC CHEMICAL PROCESSES acture, formulation, supply and use (MFSU) of basic organic
Waste code		depends on the waste producer an	to the Ordinance on the European ad can therefore vary for any given p separately from each waste produce	roduct. The waste code

SECTION 14: Transport inform	ation	
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	
14.2. UN proper shipping name		
Proper Shipping Name (ADR)	: Not applicable	
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Proper Shipping Name (IMDG)	: Not applicable		
Proper Shipping Name (IATA)	: Not applicable		
14.3. Transport hazard cl	lass(es)		
ADR			
Transport hazard class(es) (AD	DR) : Not applicable		
IMDG	DC) · Not applicable		
Transport hazard class(es) (IM	DG) : Not applicable		
ΙΑΤΑ			
Transport hazard class(es) (IA	TA) : Not applicable		
14.4. Packing group			
Packing group (ADR)	: Not applicable		
Packing group (IMDG)	: Not applicable		
Packing group (IATA)	: Not applicable		
14.5. Environmental haza	ards		
Dangerous for the environment	t : No		
Marine pollutant	: No		
Other information	: No supplementary inform	nation available	
14.6. Special precautions	s for user		
- Overland transport Not applicable			
- Transport by sea			
Not applicable			
- Air transport Not applicable			
14.7. Maritime transport i Not applicable	in bulk according to IMO instruments		
SECTION 15: Regulator		is for the substance or mixture	
	environmental regulations/legislation specifi		
15.1.1. EU-Regulations			
•	de is not on the REACH Candidate List		
N-Benzylcinchonidinium Chlori	de is not on the REACH Annex XIV List		
15.1.2. National regulations			
No additional information availa	able		
15.2. Chemical safety ass	sessment		
	safety assessment was not carried out.		
SECTION 16: Other info	· ·		
Data source		1272/2008 OF THE EUROPEAN PARLIAM	IENT AND OF THE
	COUNCIL of 16 Decemb	er 2008 on classification, labelling and par repealing Directives 67/548/EEC and 199	ckaging of substances and
Changes compared to earlier V	/ersions : -		
Review	: -		

Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
BCF	Bioconcentration factor	
DNEL	Derived-No Effect Level	

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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 toxicity (oral), Category 4	
Serious eye damage/eye irritation, Category 2	
Skin corrosion/irritation, Category 2	
Sensitisation - Skin, Category 1A	
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
Harmful if swallowed	
Causes skin irritation	
May cause an allergic skin reaction	
Causes serious eye irritation	
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.