(9S)-(9"S)- 9,9"-[1,4-phthalazinediylbis(oxy)]bis[10,11-dihydro-6'methoxy-cinchonan]



06.07.2023

Revision date:	15.04.2025
Version:	3
Replaces version:	2

Date of issue:

I.1. Product i	identifier			
Product form		: Substance		
Substance name		: (9S)-(9"S)- 9,9"-[1,4-phthalazinediyl	bis(oxy)]bis[10,11-dihydro-6'-me	ethoxy-cinchonan]
C no		: -		, ,
AS No		: 140853-10-7		
ormula		: C48H54N6O4		
.2. Relevant	identified uses of the subst	ance or mixture and uses advised a	gainst	
	identified uses			
Aain use category		: Industrial use. Professional use.		
Jse of the substand	e/mixture	: Research and development of synth	nesis, Phase transfer catalyst	
.2.2. Uses adv	vised against	. ,	· · · · · ·	
lo additional inform				
	f the supplier of the safety d	lata sheet		
afety data sheet: [g - Germany <u>www.buchler-gmbh.com</u> - <u>info</u> DLAC Dienstleistungsagentur	<u>@buchler-gmbh.com</u> Chemie GmbH, E-Mail: <u>sds@dlac-gmb</u>	<u>h.de</u>	
I.4. Emergen	cy telephone number			L
Country	Organisation/Company		Address	Emergency number
Germany	Giftinformationszentrum-No Zentrum Pharmakologie und Toxikolo		Robert-Koch Strasse 40 D-37075 Göttingen	+49 551 19240 (German/English)
SECTION 2: Ha	zards identification			
.1. Classifica	ation of the substance or mi	ixture		
Classification acco	ording to Regulation (EC) No	o. 1272/2008 [CLP]		
Acute toxicity (oral),	Category 4 H302			
Sensitisation - Skin,	Category 1 H317			
ull text of H statements:	ee section 16			
Adverse physicoc	hemical, human health and	environmental effects		
larmful if swallowe	d. May cause an allergic skin	reaction.		
.2. Label ele	ments			
abelling accordin	ig to Regulation (EC) No. 12	72/2008 [CLP]		
	(CLP)			
Hazard pictograms				
		GHS07		
Hazard pictograms Signal word (CLP) Hazard statements	(CLP)	GHS07 : Warning : H302 - Harmful if swallowed. H317 - May cause an allergic skin re	eaction	

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.

(9S)-(9"S)- 9,9"-[1,4-phthalazinediylbis(oxy)]bis[10,11-dihydro-6'-methoxy-cinchonan]



Date of issue:	06.07.2023
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Subsigner name (SP)-(97S)-9.97-[1,4-phthala2inedly/bis(oxy)bis[10.11-dihydro-6*methoxy-cinchonan] C No ::				Repla	aces version: 2
3.1. Substance name : (35)(9"S) - 9.9"{1.4.phthalazinedytbis(axy][bis[10,11-ditydre 6*methoxy-cinchonan] CN :: (35)(9"S) - 9.9"{1.4.phthalazinedytbis(axy][bis[10,11-ditydre 6*methoxy-cinchonan] CAS No :: 140853-10-7 Name Product identifier \$100 Acs No :: 140853-10-7 Sign (5%) 9.9"{1.4.phthalazinedytbis(xy)[bis[10,11-ditydre 6*methoxy-cinchonan] : 100 Acs re. 4 (0ra), H502 Sign (5%) 9.9"{1.4.phthalazinedytbis(xy)[bis[10,11-ditydre 6*methoxy-cinchonan] : 0x1 re. 4 (0ra), H502 Skin Sms. 1, H317 Sign (5%) 9.9"{1.4.phthalazinedytbis(xy)[bis[10,11-ditydre 6*methoxy-cinchonan] : 0x1 re. 4 (0ra), H502 Skin Sms. 1, H317 Sign (10,11-ditydre 6*methoxy-cinchonan] : 0x1 re. 4 (0ra), H502 Skin Sms. 1, H317 Skin Sms. 1, H317 Sign (10,11-ditydre 6*methoxy-cinchonan] : 0x1 re. 4 (0ra), H502 Skin Sms. 1, H317 Skin Sms. 1, H317 Sign (10,11-ditydre 6*methoxy-cinchonan) : 0x1 re. 4 (0ra), H502 Skin Sms. 1, H317 Skin Sms. 1, H317 Sign (10,11-ditydre 6*methoxy-cinchonan) : 0x1 re. 4 (0ra), H502 Skin Sms. 1, H317 Skin Sms. 1, H317 Sign (10,11-ditydre 6*methoxy-cinchonan) : 0x1 re. 4 (0ra), H502 Skin Sms. 1, H317 Skin Sms. 1, H317 Sign (10,11-ditydre 6*methoxy conand this (10	SECTION 3: Composition/info	rmation on ing	redients		
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	General measures			adequate ventilat	ion. Avoid contact with skin and eyes. Do
	6.1.1. For non-emergency person	nel			
	Emergency procedures		alified personnel equipped	l with suitable pro	tective equipment may intervene.

Safety Data Sheet

according to Regulation (EU) 2020/878

(9S)-(9"S)- 9,9"-[1,4phthalazinediylbis(oxy)]bis[10,11-dihydro-6'methoxy-cinchonan]



06.07.2023	
15.04.2025	
3	
2	
	15.04.2025 3

6.1.2.	For emergency responders	
Protectiv	ve 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 the substance enters sewers or public waters.
6.3.	Methods and material for containme	nt and cleaning up
Methods	s 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	
Concerr	ning personal protective equipment to use	e, see section 8. Concerning disposal elimination after cleaning, see section 13.
SECT	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precaut	ions for safe handling	: Provide local exhaust or general room ventilation. Wear personal protective equipment. Avoid dust formation. Avoid contact with skin and eyes. Do not breathe dust. 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, includir	ng 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.
Prohibiti	ons on mixed storage	: Keep away from food, drink and animal feedingstuffs.
7.3.	Specific end use(s)	
No addi	tional information available	

SECTION 8: Exposi	ure controls/personal protection		
8.1. Control param	eters		
(9S)-(9″S)- 9,9″-[1,4-ph	thalazinediylbis(oxy)]bis[10,11-dihydro-6'-me	hoxy-cinchonan] (140853-10-7)	
Ireland	Local name	Dusts non-specific	
Ireland	OEL (8 hours ref) (mg/m ³)	10 mg/m³ (total inhalable) 4 mg/m³ (respirable)	
United Kingdom Local name Dust			
United Kingdom WEL TWA (mg/m ³) 10 mg/m ³ (total inhalable) 4 mg/m ³ (respirable)			
8.2. Exposure cont	rols		

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Appropriate engineering controls:

Provide local exhaust or general room ventilation to minimize dust concentrations.

Hand protection:

Wear suitable gloves (EN 374). Nitrile rubber. Butyl rubber. 0.4 mm. The exact break through 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.

(9S)-(9"S)- 9,9"-[1,4-phthalazinediylbis(oxy)]bis[10,11-dihydro-6'-methoxy-cinchonan]



06.07.2023

Revision date:	15.04.2025
Version:	3
Replaces version:	2

Date of issue:

SECTION 9: Physical and chemical p	properties	
9.1. Information on basic physical and chemical 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	: Not applicable	
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 value)	: No data available	
Vapour 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		
9.2.1. Information with regard to physical haz	ard classes	
Explosive properties	: The substance is not explosive.	
Oxidising properties	: The substance has no oxidising properties.	
9.2.2. Other safety characteristics		
Molecular mass	: 778.98 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 informat	ion	
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
Acute toxicity : Oral: Harmful if swallowed.		
(9S)-(9"S)- 9,9"-[1,4-phthalazinediylbis(oxy)]bis[10,11-dihydro-6'-methoxy-cinchonan] (140853-10-7)		
LD50 oral 1586.53 mg/kg (QSAR via T.E.S.T.)		
LD50 0rai	1586.53 mg/kg (QSAR via T.E.S.T.)	
Skin corrosion/irritation	1586.53 mg/kg (QSAR via T.E.S.T.) : Not classified	

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	iylbis(oxy)]bis[10,11-dihydro-6'-	Date of issue:	06.07.2023
methoxy-cinc	nonanj	Revision date: Version: Replaces version:	15.04.2025 3 2
Serious eye damage/irritation	: Not classified		L
Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard	 Not classified Based on available data, the classifica May cause an allergic skin reaction. Not classified Based on available data, the classifica 	tion criteria are not met tion criteria are not met tion criteria are not met tion criteria are not met tion criteria are not met	
11.2. Information on other hazards			
 11.2.1. Endocrine disrupting properties Endocrine disruption for human health 11.2.2. Other information Potential adverse human health effects and 	 The substance has no endocrine disru Signs of cinchonism: Neurotoxic effect confusion), gastrointestinal disorders (s (e.g. headache, tinnitus, visua	
SECTION 12: Ecological information 12.1. Toxicity	n		
Acute aquatic toxicity	: Not classified		
Chronic aquatic toxicity	: Not classified		
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			
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 disru	pting properties	
		pang proportioo.	
12.7. Other adverse effects No additional information available			
SECTION 13: Disposal consideratio	ne		
13.1. Waste treatment methods	115		
Regional legislation (waste)	: Dispose in a safe manner in accordance	ce with local/national regulations	5.
Waste treatment methods	: This material and its container must be	e disposed of as hazardous was	
Waste disposal recommendations	 domestic waste. Do not empty into dra Empty the packaging completely prior recyclable like any other packing. 		containers are
European List of Waste (LoW) code	: 07 00 00 - WASTES FROM ORGANIC	CHEMICAL PROCESSES	

(9S)-(9"S)- 9,9"-[1,4-phthalazinediylbis(oxy)]bis[10,11-dihydro-6'-methoxy-cinchonan]



Date of issue:	06.07.2023
Revision date:	15.04.2025
Version:	3
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Waste code	: The waste code number according to the Ordinance on the European Waste Catalogue (EWC) 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 informatio	n
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
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
INDO	
	. Nat available
Transport hazard class(es) (IMDG)	: Not applicable
1474	
IATA	. Not applicable
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	
Not applicable	
- Air transport	
Not applicable	
14.7. Maritime transport in bulk accordi	ing to IMO instruments
Not applicable	
SECTION 15: Regulatory information	on
	regulations/legislation specific for the substance or mixture
	יבאמומנוטוואופעואומנוטוו אפרוור וטו נוופ אמאזמווכפ טו וווגנעופ
15.1.1. EU-Regulations	
REACH Annex XIV (Authorisation List)	
Contains no substance(s) listed on REACH Ar	nnex XIV (Authorisation List)
REACH Candidate List (SVHC)	

Contains no substance(s) listed on the REACH Candidate List.



(9S)-(9"S)- 9,9"-[1,4phthalazinediylbis(oxy)]bis[10,11-dihydro-6'methoxy-cinchonan]

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).

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

SECTION 46: Other informati

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 15.1.1

Abbreviations and acronyms:

European Agreement concerning the International Carriage of Dangerous Goods by Road
Bioconcentration factor
Derived-No Effect Level
The effective concentration of substance that causes 50 % of the maximum response (Median Effective Concentration)
International Air Transport Association
International Maritime Dangerous Goods
Lethal Concentration to 50 % of a test population (Median Lethal Concentration)
Lethal Dose to 50 % of a test population (Median Lethal Dose)
No-Observed Effect Concentration
No-Observed Adverse Effect Level
No-Observed Adverse Effect Concentration
Lowest Observed Adverse Effect Level
Persistent Bioaccumulative Toxic
Predicted No-Effect Concentration
Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
Sewage treatment plant
Very Persistent and Very Bioaccumulative

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Skin Sens. 1	Sensitisation - Skin, Category 1
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.