

### Trade name:

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

Date of issue:	06.07.2023	1
Revision date Version: Replaces vers	2	

<b>SECTION 1: Identification of the sub</b>	ostance/mixture and of the company/undertaking	
1.1. Product identifier		
Product form	: Substance	
Substance name	: (9S)-(9"S)- 9,9"-[1,4-phthalazinediylbis(oxy)]bis[10,11-dihydro-6'-methoxy-cinchonan]	
EC no	: •	
CAS No	: 140853-10-7	
Formula	: C48H54N6O4	
1.2. Relevant identified uses of the sub-	stance or mixture and uses advised against	
1.2.1. Relevant identified uses		
Main use category	: Industrial use. Professional use.	
Use of the substance/mixture	: Research and development of synthesis, Phase transfer catalyst	
1.2.2. Uses advised against	.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 Zentrum Pharmakologie und Toxikologie der Universität Göttingen	Robert-Koch Strasse 40 D-37075 Göttingen	+49 551 19240 (German/English)

### **SECTION 2: Hazards identification**

Classification of the substance or mixture 2.1.

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4 H302

Sensitisation - Skin, Category 1 H317

Full text of H statements: see section 16

### Adverse physicochemical, human health and environmental effects

Harmful if swallowed. May cause an allergic skin reaction.

2.2. Label elements	
Labelling according to Regulation (EC) No. 12	272/2008 [CLP]
Hazard pictograms (CLP)	GHS07
Signal word (CLP)	: Warning
Hazard statements (CLP)	: H302 - Harmful if swallowed. H317 - May cause an allergic skin reaction.
Precautionary statements (CLP)	<ul> <li>P261 - Avoid breathing dust.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P280 - Wear protective gloves, protective clothing, eye protection.</li> <li>P301+P312 - IF SWALLOWED: Call a POISON CENTER, doctor if you feel unwell.</li> <li>P302+P352 - IF ON SKIN: Wash with plenty of soap and water.</li> <li>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.</li> </ul>

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#### 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.

<b>SECTION 3: Composition/info</b>	rmation on ingredients			
3.1. Substances				
Substance name	bstance name : (9S)-(9"S)- 9,9"-[1,4-phthalazinediylbis(oxy)]bis[10,11-dihydro-6'-methoxy-cinchonan]		,11-dihydro-6'-methoxy-cinchonan]	
EC No	: -			
CAS No	: 140853-10-7	: 140853-10-7		
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
(9S)-(9"S)- 9,9"-[1,4- phthalazinediylbis(oxy)]bis[10,11-dihydro- 6'-methoxy-cinchonan]	(CAS No) 140853-10-7	≤ 100	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317	
Full text of H-statements: see section 16	3			
3.2. Mixtures				
Not applicable				
SECTION 4: First aid measure	S			
4.1. Description of first aid meas	sures			
First-aid measures general		label. Never give anyth	ossible, show him this sheet. Failing this, ing by mouth to an unconscious person.	
First-aid measures after inhalation	: Remove victim to fresh air	and keep at rest in a po	sition comfortable for breathing.	
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.		
First-aid measures after ingestion	: Rinse mouth. Drink water a feel unwell.	: Rinse mouth. Drink water as a precaution. Call a POISON CENTER or doctor/physician if you feel unwell.		
4.2. Most important symptoms a	nd effects, both acute and delayed			
Symptoms/injuries			ache, tinnitus, visual disturbances, , vomiting, diarrhoea), exanthema and	
Symptoms/injuries after skin contact	-			
Symptoms/injuries after ingestion	: Harmful if swallowed.	, ,		
4.3. Indication of any immediate	medical attention and special treatm	ent needed		
Treat symptomatically.				
<b>SECTION 5: Firefighting meas</b>	ures			
5.1. Extinguishing media				
Suitable extinguishing media	: Adapt extinguishing agent extinguishing powder.	to suit the environment.	Water spray. Foam. Carbon dioxide. Dry	
Unsuitable extinguishing media : Do not use a heavy water stream.				
5.2. Special hazards arising from the substance or mixture				
Hazardous decomposition products in ca	ase of : Carbon oxides (CO, $CO_2$ ).	Nitrogen oxides.		
5.3. Advice for firefighters				
Firefighting instructions	: Use water spray or fog for environment.	cooling exposed contair	ners. Prevent fire-fighting water from entering	
Protection during firefighting	: Use a self-contained breat	hing apparatus and also	a protective suit (EN 469).	

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SECT	ION 6: Accidental release mea	sures	
6.1.	Personal precautions, protective equipment and emergency procedures		
Genera	l measures	: Stop leak if safe to do so. Provide adequate ventilation. Avoid contact with skin and eyes. Do not breathe dust.	
6.1.1.	For non-emergency personnel		
Emerge	ency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.	
6.1.2.	For emergency responders		
Protecti	ive equipment	: Use personal protective equipment as required. Wear suitable respiratory equipment in case of insufficient ventilation.	
6.2.	Environmental precautions		
Prevent	t entry to sewers and public waters. Notif	fy authorities if the substance enters sewers or public waters.	
6.3.	Methods and material for containme	ent and cleaning up	
Method	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		
Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.			
SECTION 7: Handling and storage			
7.1.	Precautions for safe handling		
Precaut	tions 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, including 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.	
Prohibitions on mixed storage	: Keep away from food, drink and animal feedingstuffs.	

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Specific end use(s)
7.3.
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No additional information available
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SECTION 8: Exposure controls/personal protection			
8.1. Control parameters			
(9S)-(9"S)- 9,9"-[1,4-phthalazinediylbis(oxy)]bis[10,11-dihydro-6'-methoxy-cinchonan] (140853-10-7)			
Ireland	Local name	Dusts non-specific	
Ireland	OEL (8 hours ref) (mg/m³)	10 mg/m³ (total inhalable) 4 mg/m³ (respirable)	
United Kingdom	Local name	Dust	
United Kingdom	WEL TWA (mg/m³)	10 mg/m³ (total inhalable) 4 mg/m³ (respirable)	

#### 8.2. **Exposure controls**

### 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:



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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.

SECTION 9: Physical and chemical 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		
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		
Relative vapour density	: Not applicable		
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	: 778.98 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 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	3		
In case of fire: Carbon monoxide. Carbon dioxid	In case of fire: Carbon monoxide. Carbon dioxide. Nitrogen oxides.		

### **SECTION 11: Toxicological information** Information on hazard classes as defined in Regulation (EC) No 1272/2008

11.1. Acute toxicity : Oral: Harmful if swallowed.

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(9S)-(9"S)- 9,9"-[1,4-ph	halazinediylbis(oxy)	]bis[10,11-dihydro-6'-methoxy-cinchon	an] (140853-10-7)	
LD50 oral		1586.53 mg/kg (QSAR via T.E.S.T.)		
Skin corrosion/irritation		: Not classified		
		Based on available data, the classific	ation criteria are not met	
Serious eye damage/irritat	ion	: Not classified		
		Based on available data, the classific	ation criteria are not met	
Respiratory or skin sensiti	sation	: May cause an allergic skin reaction.		
Germ cell mutagenicity		: Not classified		
		Based on available data, the classific	ation criteria are not met	
Carcinogenicity		: Not classified		
		Based on available data, the classific	ation criteria are not met	
Reproductive toxicity		: Not classified		
		Based on available data, the classific	ation criteria are not met	
Specific target organ toxicity (single exposure)		: Not classified		
		Based on available data, the classific	ation criteria are not met	
Specific target organ toxicity (repeated		: Not classified		
exposure)		Based on available data, the classific	ation criteria are not met	
Aspiration hazard		: Not classified		
		Based on available data, the classific	ation criteria are not met	
11.2. Information on	other hazards			
11.2.1. Endocrine disr	upting properties			
Endocrine disruption for h	uman health	: The substance/mixture has no endoc	rine disrupting properties.	

### 11.2.2. Other information

Potential adverse human health effects and	Signs of cinchonism: Neurotoxic effects (e.g. headache, tinnitus, visual disturbances,
symptoms	confusion), gastrointestinal disorders (e.g. nausea, vomiting, diarrhoea), exanthema and
	haematological disorders.

<b>SECTION 12: Ecological informatic</b>	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 assessm	nent
This substance does not meet the PBT- or vPv	B criteria of REACH regulation, annex XIII.
12.6. Endocrine disrupting properties	
Endocrine disruption for the environment	: The substance/mixture has no endocrine disrupting properties.
12.7. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	ons
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 v         domestic waste. Do not empty into drains.	



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Waste disposal recommendation	ons : Empty the packaging completely p recyclable like any other packing.	prior to disposal. When totally empty	, containers are
European List of Waste (LoW)		: 07 00 00 - WASTES FROM ORGANIC CHEMICAL PROCESSES 07 01 00 - wastes from the manufacture, formulation, supply and use (MFSU) of basic or	
Waste code	depends on the waste producer an	The waste code number according to the Ordinance on the European Waste Catalogue (EV depends on the waste producer and can therefore vary for any given product. The waste con number is therefore to be gleaned separately from each waste producer.	
SECTION 14: Transport	t information		
In accordance with ADR / IMD	G / IATA		
14.1. UN number or ID nu	Imber		
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)			
Proper Shipping Name (IATA)	: Not applicable		
14.3. Transport hazard cl	ass(es)		
ADR			
Transport hazard class(es) (AD	DR) : Not applicable		
IMDG			
Transport hazard class(es) (IM	DG) : Not applicable		
ΙΑΤΑ			
Transport hazard class(es) (IA <sup>-</sup>	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 information ava	ilable	
14.6. Special precautions	s for user		
- Overland transport			
Not applicable			
- <b>Transport by sea</b> Not applicable			
- Air transport			
Not applicable			
14.7. Maritime transport i	in bulk according to IMO instruments		
Not applicable			
SECTION 15: Regulator	ry information		
	environmental regulations/legislation specific for the	substance or mixture	
15.1. Safety, health and e			

### Safety Data Sheet

according to Regulation (EU) 2020/878

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### **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).

### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 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 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 2.3. Other hazards Section 11.2.1 Endocrine disrupting properties Section 12.6. Endocrine disrupting properties Section 15.1.1. EU-Regulations
Review	:-

#### Abbreviations and acronyms:

1
edian Effective Concentration)
1907/2006

Full text of H- and EUH-statements:



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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.