3-[[3,5-bis(trifluoromethyl)phenyl]amino]-4-[[(8a,9S)-6'-methoxycinchonan-9-yl]amino]-3-Cyclobutene-1,2-dione



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			Replaces ve	rsion: -
SECTION 1:	Identification of the	substance/mixture and of t	he company/undertakin	a
	ct identifier			
Product form		: Substance		
Substance name	•	: 3-[[3,5-bis(trifluoromethyl)pl Cyclobutene-1,2-dione	henyl]amino]-4-[[(8α,9S)-6′-meth	noxycinchonan-9-yl]amino]-3-
EC No		: -		
CAS No		: 1256245-84-7		
Formula		: C32H28F6N4O3		
1.2. Releva	ant identified uses of the	substance or mixture and uses ad	vised against	
1.2.1. Releva	ant identified uses			
Main use categor	ry	: Industrial use. Professional		
Use of the substa	ance/mixture	: Research and synthesis de Catalyst	velopment	
	advised against ormation available			
	s of the supplier of the s	afety data sheet		
Manufacturer/Si				
	nbh.com et: DLAC Dienstleistungsa	gentur Chemie GmbH, E-Mail: <u>sds@c</u>	llac-gmbh.de	
	jency telephone number		Address	Emorranovaria
Country Germany		anisation/Company member of the FAGUS Group)	Harxbütteler Str. 3 38110 Braunschweig Germany	Emergency number +49 1791437208 (German/English) (Mo-Fr 8:00-16:00)
SECTION 2	Hazards identificati	on	•	·
	fication of the substance			
Classification and Acute toxicity (ora Sensitisation - Sk	ccording to Regulation (al), Category 2 H300 kin, Category 1 H317	EC) No. 1272/2008 [CLP]		
Full text of H stat	tements: see section 16			
	ochemical, human healt d. May cause an allergic s	h and environmental effects kin reaction.		
	elements			
	ding to Regulation (EC)	No. 1272/2008 [CLP]		
Hazard pictogra				

- Signal word (CLP)
- : H300 Fatal if swallowed. H317 May cause an allergic skin reaction. Hazard statements (CLP)
- Precautionary statements (CLP)
- : P261 Avoid breathing dust. P280 - Wear protective gloves, protective clothing, eye protection.

EN (English)



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P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, doctor. P330 - Rinse mouth. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

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.

Nomo	Broduct identifier	0/	Classification according to
CAS No	: 1256245-84-7		
EC No	: -		
Substance name	: 3-[[3,5-bis(trifluoromethyl)phen Cyclobutene-1,2-dione	yl]amino]-4-[[(8α,9S)-6'-methoxycinchonan-9-yl]amino]-3-
3.1. Substances			
SECTION 3: Composition/information on ingredients			

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
3-[[3,5-bis(trifluoromethyl)phenyl]amino]-4-[[(8α,9S)- 6'-methoxycinchonan-9-yl]amino]-3-Cyclobutene-1,2-	(CAS No) 1256245-84-7	≤ 100	Acute Tox. 2 (Oral), H300 Skin Sens. 1, H317
dione			

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.
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 as a precaution. IF SWALLOWED: Immediately call a POISON CENTER, doctor.
4.2. Most important symptoms and effect	s, 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 skin contact	: May cause an allergic skin reaction.
Symptoms/injuries after ingestion	: Fatal if swallowed.
4.3. Indication of any immediate medical	attention and special treatment needed

Treat sy	mptoma	atically.
----------	--------	-----------

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	Special hazards arising from the substance or mixture		
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO2). Nitrogen oxides.		
5.3. Advice for firefighters			
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.		
01.07.0001			

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		·
Protect	ion during firefighting	: Use a self-contained breathing apparatus and also a protective suit (EN 469).
SECT	ION 6: Accidental release m	easures
6.1.	Personal precautions, protective	equipment and emergency procedures
Genera	al 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	
Protect	ive equipment	: Use personal protective equipment as required. Wear suitable respiratory equipment in case of insufficient ventilation. For further information, refer to section 8: "Exposure controls/personal protection".
6.2.	Environmental precautions	
Preven	t entry to sewers and public waters. N	otify authorities if the substance enters sewers or public waters.
6.3.	Methods and material for contain	ment and cleaning up
Method	ls 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	
Concer	rning personal protective equipment to	use, see section 8. Concerning disposal elimination after cleaning, see section 13.
SECT	ION 7: Handling and storage	
7.1.	Precautions for safe handling	
Precau	tions for safe handling	: Provide local exhaust or general room ventilation. Wear personal protective equipment. Avoid dust formation. Do not breathe dust. Avoid contact with skin and eyes.
Hygien	e 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. Contaminated work clothing should not be allowed out of the workplace.
7.2.	Conditions for safe storage, incl	Iding any incompatibilities
Storage	e conditions	: Store in original container. Store tightly closed in a dry and cool place. Keep out of direct sunlight. Protect from moisture. Store locked up.
Prohibi	tions on mixed storage	: Keep away from food, drink and animal feedingstuffs.
7.3.	Specific end use(s)	
No add	litional information available	

SECTION 8: Exposure controls/personal protection

8.1. Control parameters			
3-[[3,5-bis(trifluoromethyl)phenyl]amino]-4-[[(8α,9S)-6'-methoxycinchonan-9-yl]amino]-3-Cyclobutene-1,2-dione (1256245-84-7)			
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).

3-[[3,5-bis(trifluoromethyl)phenyl]amino]-4-[[(8α,9S)-6'-methoxycinchonan-9-yl]amino]-3-Cyclobutene-1,2-dione



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Skin and body protection:

Wear suitable protective clothing.

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 o	hemical properties
Physical state	: Solid, powder
Colour	: White - brownish
Odour	: No data available
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)	: 6.31 (QSAR)
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.
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	mmended 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	
Oxidising agents.	
10.6. Hazardous decomposition products	i de la constante de la constan
In case of fire: Carbon monoxide. Carbon dioxide	e. Nitrogen oxides.
SECTION 11: Toxicological informat	ion

 11.1.
 Information on hazard classes as defined in Regulation (EC) No 1272/2008

 Acute toxicity
 : Oral: Fatal if swallowed.

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LD50 oral rat	[(8α,9S)-6'-methoxycinchonan-9-yl]amino]-3-Cyclobutene-1,2-dione (1256245-84-7) 6.06 mg/kg (QSAR via T.E.S.T.)
Skin corrosion/irritation	: Not classified
Skill corrosion/initiation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified
Senous eye damage/imation	Based on available data, the classification criteria are not met
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)	Not classified
	Based on available data, the classification criteria are not met
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	: Signs of cinchonism: Neurotoxic effects (e.g. headache, tinnitus, visual disturbances,
symptoms	confusion), gastrointestinal disorders (e.g. nausea, vomiting, diarrhoea), exanthema and haematological disorders.
SECTION 12: Ecological information	
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	
	[(8α,9S)-6'-methoxycinchonan-9-yl]amino]-3-Cyclobutene-1,2-dione (1256245-84-7)
Log Pow	6.31 (QSAR)
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessme	nt
This substance does not meet the PBT- or vPvB	
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 consideration	IS
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 wi domestic waste. Do not empty into drains.





[[(8α,9S)-6′	trifluoromethyl)phenyl]amino]-4- -methoxycinchonan-9-yl]amino]-3- ne-1,2-dione	Date of issue:	24.07.2024
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Waste disposal recommendations	: Empty the packaging completely prior t recyclable like any other packing.	•	, containers are
European List of Waste (LoW) code	 O7 00 00 - WASTES FROM ORGANIC 07 01 00 - wastes from the manufactur chemicals 		(MFSU) of basic organi
Waste code	 The waste code number according to the depends on the waste producer and can number is therefore to be gleaned separation 	in therefore vary for any given	product. The waste cod
SECTION 14: Transport information	on		
In accordance with ADR / IMDG / IATA			
14.1. UN number or ID number			
UN-No. (ADR)	: UN 1544		
UN-No. (IMDG)	: UN 1544		
UN-No. (IATA)	: UN 1544		
14.2. UN proper shipping name			
Proper Shipping Name (ADR)	: ALKALOIDS, SOLID, N.O.S. (3-[[3,5-bi methoxycinchonan-9-yl]amino]-3-Cyclo		-4-[[(8α,9S)-6'-
Proper Shipping Name (IMDG)	: ALKALOIDS, SOLID, N.O.S. (3-[[3,5-bi methoxycinchonan-9-yl]amino]-3-Cyclo	s(trifluoromethyl)phenyl]amino	-4-[[(8α,9S)-6'-
Proper Shipping Name (IATA)	: Alkaloids, solid, n.o.s. (3-[[3,5-bis(trifluc methoxycinchonan-9-yl]amino]-3-Cyclo	promethyl)phenyl]amino]-4-[[(8	a,9S)-6'-
Transport document description (ADR)	: UN 1544 ALKALOIDS, SOLID, N.O.S. methoxycinchonan-9-yl]amino]-3-Cyclo	(3-[[3,5-bis(trifluoromethyl)pher	
Transport document description (IMDG)	: UN 1544 ALKALOIDS, SOLID, N.O.S. methoxycinchonan-9-yl]amino]-3-Cyclo		nyl]amino]-4-[[(8α,9S)-6
Transport document description (IATA)	: UN 1544 Alkaloids, solid, n.o.s. (3-[[3,5 methoxycinchonan-9-yl]amino]-3-Cyclo		no]-4-[[(8α,9S)-6'-
14.3. Transport hazard class(es) ADR			
Transport hazard class(es) (ADR)	: 6.1		
Danger labels (ADR)	: 6.1		
	6		
IMDG	N7/		
Transport hazard class(es) (IMDG)	: 6.1		
Danger labels (IMDG)	: 6.1		
Transport hazard class(es) (IATA)	: 6.1		
Hazard labels (IATA)	: 6.1		
	6		
	NY		

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14.4. Packing group	
Packing group (ADR)	: 11
Packing group (IMDG)	: 11
Packing group (IATA)	: 11
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	
Classification code (ADR)	: T2
Special provisions (ADR)	: 43, 274
Limited quantities (ADR)	: 500 g
Excepted quantities (ADR)	: E4
Packing instructions (ADR)	: P002, IBC08
Special packing provisions (ADR)	: B4
Mixed packing provisions (ADR)	: MP10
Portable tank and bulk container instructions (ADR)	: T3
Portable tank and bulk container special provisions (ADR)	: TP33
Tank code (ADR)	: SGAH, L4BH
Tank special provisions (ADR)	: TU15, TE19
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V11
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28
Special provisions for carriage - Operation (ADR)	: S9, S19
Hazard identification number (Kemler No.)	: 60
Orange plates	60 1544
Tunnel restriction code (ADR)	: D/E
- Transport by sea	
Special provisions (IMDG)	: 43, 274
Limited quantities (IMDG)	: 500 g
Excepted quantities (IMDG)	: E4
Packing instructions (IMDG)	: P002
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B4, B21
Tank instructions (IMDG)	: T3
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-A
Stowage category (IMDG)	: A
- Air transport PCA Excepted quantities (IATA)	: E4

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PCA Limited quantities (IATA)	: Y644
PCA limited quantity max net quantity (IATA)	: 1 kg
PCA packing instructions (IATA)	: 669
PCA max net quantity (IATA)	: 25 kg
CAO packing instructions (IATA)	: 676
CAO max net quantity (IATA)	: 100 kg
Special provisions (IATA)	: A3, A5, A6, A801
ERG code (IATA)	: 6L

14.7.	Maritime	transport	in bulk	according	to IMO	instruments	
Not applic	cable						

SECTION 15: Regulatory information

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

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).

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 information

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Data source
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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

Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage 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)	
ΙΑΤΑ	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)	
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:

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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. 2 (Oral)	Acute toxicity (oral), Category 2
Skin Sens. 1	Sensitisation - Skin, Category 1
H300	Fatal 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.